Roma

Ministero della Salute

DIREZIONE GENERALE PER L'IGIENE E LA SICUREZZA DEGLI ALIMENTI E LA NUTRIZIONE
Ufficio 7

Sicurezza e regolamentazione dei prodotti fitosanitari
Viale G. Ribotta 5 -00144 Roma

N. DGISAN/7/I.4.c.c.8.2/2023/2 (P)
Allegati : 3

AGLI ASSESSORATI ALLA SANITA' DELLE REGIONI E DELLE PROVINCE AUTONOME DI TRENTO E BOLZANO
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OGGETTO: **Programma per i controlli dei residui di prodotti fitosanitari in alimenti - Indirizzi operativi per l'anno 2023.**

Al fine di pianificare e programmare le attività di controllo ufficiale previste dal regolamento UE 2021/1355 relativo ai programmi di controllo sui residui di prodotti fitosanitari in alimenti e dal regolamento 625/2017 relativo ai controlli ufficiali, si trasmette il documento allegato corredato dei suoi allegati che contiene la programmazione dei controlli di residui di prodotti fitosanitari per l'anno 2023 e come lo scorso anno viene diramato, per l'aggiornamento della programmazione conseguente le rivalutazioni sui rischi che sono emersi durante le attività dei controlli degli anni precedenti come previsto dal regolamento (UE) 2017/625 e al fine di tutelare la salute dei consumatori.

Tale nota è un obbligo legale previsto, anche dal piano pluriennale dei controlli analitici degli alimenti e della sicurezza alimentare 2020 – 2022, in fase di aggiornamento, il quale prevede che l'organizzazione dei controlli dei residui di prodotti fitosanitari in alimenti sia coordinata dall'ufficio 7 della Direzione Generale per l'igiene e la sicurezza degli alimenti e la nutrizione.

La stessa tiene conto anche del regolamento (UE) 2022/741 sui controlli dei residui di pesticidi in alimenti e dei documenti volontari della Commissione europea sugli analiti e alimenti da inserire nei piani nazionali.

Il documento contiene in sintesi le seguenti informazioni:

la ripartizione dei campionamenti del piano nazionale e del piano europeo tra le Regioni e le Province autonome di Trento e Bolzano e indicazione sui codici alimento da usare;

indicazioni sui criteri per la valutazione del rischio che deve essere effettuata a livello regionale;

indicazioni sulle tipologie di alimenti per le quali è fissato nel regolamento 396/2005 un limite massimo di residuo che sono da prendere in considerazioni per le classi di alimenti previste dal regolamento 723/2019 sugli obblighi di relazione alla Commissione europea;

indicazioni sugli analiti da esaminare sulla base del documento di lavoro volontario da usare per la programmazione dei piani nazionali emanato dalla Commissione europea;

indicazioni sugli analiti (dimetoato e chlorpyrifos per l'ortofrutta e i pesticidi PFAS per qualsiasi categoria) e alimenti prioritari (pesche per la frutta e pomodori tra gli ortaggi) da campionare scelti tenendo in considerazione gli alimenti e gli analiti più frequenti nel tempo non conformi o gli analiti di prossima restrizione per il regolamento Reach;

indicazioni sulle combinazioni analiti e alimenti da campionare scelte tra quelle raccomandate dall'Autorità Europea per la sicurezza almentare (EFSA);

indicazioni coordinate con la Direzione generale della sanita animale e dei farmaci veterinari sui controlli all'importazione per gli alimenti e analiti che sono risultati essere raccomandati dall'EFSA;

indicazioni sulle modalità di trasmissione dei controlli ufficiali;

indicazioni per la scelta dei laboratori del controllo ufficiale da parte delle Regioni e Province Autonome di Trento e Bolzano; indicazioni per i laboratori del controllo ufficiale e ai laboratori nazionali di riferimento ;

indicazioni per l'esecuzione dei controlli in termini di luoghi e modalità di campionamento e per gli adempimenti degli operatori sulle norme d'igiene degli alimenti;

Premesso quanto sopra citato si invitano codesti Assessorati alla sanità a voler:

- recepire, nei propri ordinamenti tali indirizzi, qualora non siano stati già adottati programmi o piani;
- aggiornare gli atti d'indirizzo forniti da codeste Amministrazioni qualora siano già stati adottati programmi o piani

- assicurare che siano campionate tutte le categorie di alimenti e tutti i campionamenti previsti dal piano coordinato dell'Unione Europea e dal piano nazionale;
- assicurare che siano analizzati gli analiti previsti dal piano coordinato comunitario e che venga utilizzata, da parte dei laboratori, la codifica corretta per la trasmissione dei risultati dei controlli
- rendere disponibili ai laboratori designati del controllo ufficiale, che dovranno essere accreditati anche per singola prova, le indicazioni ivi contenute;
- trasmettere a questo Ministero email dgsan@postacert.sanita.it e per conoscenza ro.aloi@sanita.it i piani di controllo emanati.

Si ringrazia per la collaborazione

IL DIRETTORE GENERALE
Dr Ugo della Marta

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PROGRAMMA PER I CONTROLLI DEI RESIDUI DI PRODOTTI FITOSANITARI IN ALIMENTI - INDIRIZZI OPERATIVI PER L'ANNO 2023

Introduzione

Il regolamento 625/2017 prevede che i controlli avvengano sulle merci e sugli operatori, contenuti e previsti dalle leggi citate all'articolo 1 comma 2 del medesimo regolamento. Tra le norme previste da tale regolamento è ivi incluso il regolamento 396/2005 i cui articoli relativi ai controlli sono rimasti in vigore fino al 14 dicembre 2022. Gli articoli abrogati sono stati sostituiti dal regolamento di esecuzione (UE) 2021/1355 e dal regolamento delegato (UE) 2021/2244. In particolare il regolamento (UE) 2021/1355 ha sostituito l'articolo 30 del regolamento 396/2005 e prevede che nei piani di controllo nazionali pluriennali sia contenuto il programma nazionale per la ricerca dei residui di pesticidi in alimenti mentre il regolamento (UE) 2021/2244 stabilisce indicazioni sui campionamenti stabilendo dei criteri generali. Il decreto legislativo n. 27 del 2 febbraio 2021 stabilisce le autorità competenti per i controlli, individua i laboratori del controllo ufficiale, stabilisce più dettagliate procedure di campionamento, nonché le procedure per la controperizia e controversia. Quindi i controlli dei residui di prodotti fitosanitari in alimenti sono programmati tenendo in considerazione le indicazioni del regolamento di esecuzione (UE) 2021/1355, sono eseguiti e sono verificati attraverso gli audit.

La programmazione avviene a livello europeo, nazionale e regionale.

Le finalità dei programmi nazionali, europei e regionali riguardano tutte la verifica del rispetto dei limiti massimi di residui ma ciascun tipo di programma avviene in un ambito geografico differente.

Infatti il programma nazionale di cui al decreto del 23 dicembre 1992 e alle relative note direttoriali prevede soltanto le classi di alimenti che rappresentano la dieta prevalente nazionale e che devono essere prelevate nel territorio nazionale lasciando all'Autorità regionale o povinciale la possibilità di calibrare il proprio piano sulla base della realtà produttiva, di consumo e di popolazione regionale.

Il programma europeo invece specifica gli alimenti da prelevare ed esaminare che rappresentano gli alimenti più consumati in Europa da prelevarsi da tutti gli Stati appartenenti all'Unione europea. Quest'ultimo sarà descritto in dettaglio in una sezione specifica.

Tale attività ha come finalità la verifica del rispetto dei limiti massimi di residui di prodotti fitosanitari, la verifica della corretta applicazione dei prodotti fitosanitari e la valutazione del rischio.

Le classi di alimenti previste dal programma nazionale sono:

alimenti di origine vegetale non processati quali frutta, ortaggi e cereali

alimenti di origine vegetale processati quali olio e vino

alimenti di origine animale e derivati quali le carni, il latte, le uova e i pesci (vedi paragrafo 2.1c10).

Il programma nazionale stabilisce il numero minimo di campioni per ogni classe di alimento e il tipo di campioni da prelevare ed esaminare anche attraverso la ripartizione regionale o provinciale.

Il programma prevede oltre le classi di alimenti sopra descritte anche i luoghi del controllo, e stabilisce i flussi e per la trasmissione dei controlli.
Le note direttoriali riportano gli indirizzi per le Autorità regionali che basate sulla valutazione del rischio tengono conto dei risultati dei controlli trasmessi alle autorità europei e dei criteri e delle priorità stabiliti con la Commissione europea con il Documento SANCO/12745/2013.

I controlli avvengono anche all'importazione per gli alimenti provenienti dai paesi terzi; in particolare i campionamenti da parte dei posti di controllo frontalieri (PCF) sulle partite importate sono eseguiti secondo la frequenza stabilita nel piano annuale di monitoraggio sviluppato in accordo al comma 6 art. 1 del decreto legislativo 2 febbraio 2021, n. 24 (0031199-23/12/2022-DGSAF-MDS-P: Piano di monitoraggio dei controlli di laboratorio sugli alimenti di origine non animale, integratori alimentari e MOCA importati dai Paesi terzi) dall'Ufficio 8 della Direzione generale della Sanità Veterinaria.
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Controlli dei residui di prodotti fitosanitari in alimenti - programma nazionale e programma comunitario di controllo

La ripartizione dei campionamenti previsti dal decreto del 23 dicembre 1992 sono riportate nella tabella 2a. Tale tabella contiene sia i campionamenti riportati nella tabella 2b che quelli riportati nelle tabelle 2c e tabella 3. Il decreto sopracitato dà indicazioni sulle attività di controllo ufficiale per la ricerca dei residui di prodotti fitosanitari in alimenti in particolare per il numero dei campioni e la tipologia delle matrici. Si intendono qui recepite le indicazioni presenti nel suddetto decreto con flessibilità per quanto riguarda la scelta dell'origine dei campioni regionali o extraregionali (campioni prodotti in un'altra regione, in un altro paese Europeo o in un paese Terzo). Si fa presente che il numero di campionamenti previsti dal decreto del 23 dicembre 1992 (tabella 2a) deve essere raggiunto tenendo in considerazione i campionamenti contenuti nella tabella 2b che individua i campionamenti solo nazionali e quelli previsti dalla tabella 2c e tabella 3 che individuano i campioni

misti nazionali ed europei. E' possibile, al fine del rispetto del numero di campioni di cereali previsti conteggiare anche i prodotti trasformati (vedi punto c.1). E' opportuno, inoltre, che le Regioni e le Province Autonome e i posti di controllo frontalieri (PCF) del Ministero della Salute competenti per i controlli all'importazione degli alimenti di origine vegetale, per il 2023 tengano conto delle ulteriori indicazioni di seguito riportate per gli aspetti relativi ai luoghi del controllo, alla scelta degli analiti e dei campioni, alla trasmissione dei risultati dei controlli.
I controlli avverranno congiunti o coordinati ove più servizi sono individuati per le attività.

1 LUOGHI DEL CONTROLLO

I controlli saranno eseguiti preferibilmente presso:

a) i centri di raccolta aziendali e cooperativi;
b) i mercati generali specializzati e non specializzati;
c) i depositi all'ingrosso;
d) gli ipermercati e i supermercati;
e) i PCF per i prodotti importati;
f) le aziende agricole di produzione primaria,

e riguarderanno

1. la produzione primaria;
2. la trasformazione;
3. la commercializzazione;
4. i prodotti da esportare ed importati che si ritrovano sul mercato.

2 FREQUENZA E INDIRIZZI DEI CONTROLLI PREVISTI DAL PIANO NAZIONALE (PN)

Si riportano di seguito indicazioni in merito alla scelta dei campioni e degli accertamenti analitici che rientrano numericamente a quanto previsto dal decreto del 23 dicembre 1992.

2.1 Criteri di scelta dei campionamenti

a. Campioni risultati non conformi nei controlli del 2021

I campioni nazionali risultati non conformi nel 2021 sono riportati in Allegato 1 alla **Tabella 1 parte a**.
Si invitano le Regioni/Province Autonome, che hanno riscontrato le non conformità nel 2021 citate nella colonna "Regione/Provincia autonoma campionante" della Tabella 1 parte a**,** ad effettuare un'ispezione o campionamento nel luogo dove è stata riscontrata l'irregolarità per verificare se il fornitore/produttore è stato ancora riscontrato in autocontrollo irregolare o se è ancora irregolare per

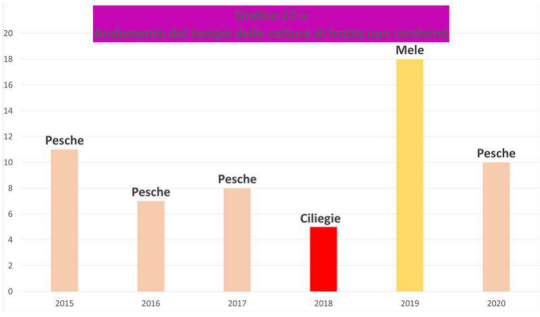
lo stesso alimento o un altro alimento oppure, se già conosciuto il fornitore/produttore riscontrato non conforme e se presente nella regione campionante, può essere effettuato un campionamento dal fornitore/produttore che ha venduto il precedente campione non conforme; mentre le altre Regioni/Province Autonome presso la quale è stato prodotto l'alimento dovranno verificare l'azienda produttrice e le altre aziende clienti di tale produttore, per il riscontro di eventuali altre non conformità e per un ulteriore campionamento.

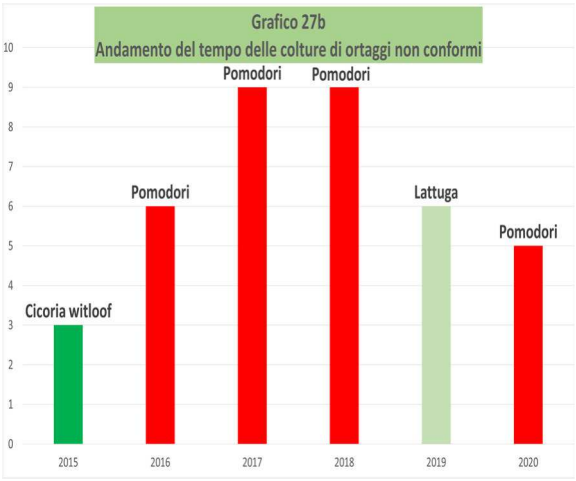
Le rimanenti Regioni/Province Autonome effettueranno, un campione dei seguenti alimenti: banane, pompelmi, limoni, arance, pomodori e funghi e simili come prodotti non conformi da campionamenti nazionali, ma aventi origine da paesi terzi o sconosciuta e, ove possibile, anche un campione degli altri tipi di alimenti presenti nella Tabella 1 parte a. Tali campioni devono essere campionati con ragione "piano nazionale".

Le Regioni/Province Autonome sulla base della valutazione del rischio regionale/provniciale potranno scegliere, tra le tipologie di alimenti da utilizzare come campioni del piano nazionale anche campioni risultati non conformi nel 2021 nelle loro Regioni/Province Autonome, rispettando comunque le priorità stabilite in questa nota.

Le Regioni Province Autonome devono effettuare obbligatoriamente 3 o più campionamenti di pesche, di pomodori e di riso in quanto tali alimenti sono stati riscontrati per diversi anni, tra cui l'ultimo non conformi.

Grafico 27 a del report 2020





Per la valutazione del rischio si chiede alle Autorità competenti o incaricate di tenere ordinati tutti i database con le registrazioni degli operatori alimentari che appartengono alla filiera dei residui di pesticidi in alimenti, di valutare quali sono gli operatori presso i quali effettuare i controlli, di valutare gli alimenti più consumati o più distribuiti, o più prodotti nella Regione, di valutare quali sono i pesticidi più usati nella regione, di valutare le non conformità più ricorrenti sia in termini di alimenti che di residui, di valutare le associazioni alimento e residuo più frequenti risultate non conformi e quindi attraverso un modello simile a quello seguente stabilire la frequenza dei controlli per luogo del controllo, per alimento, per residuo e per combinazione residuo/alimento.

Tabella 1: Modello di valutazione

Numero operatori e tipo operatore /oppure Numero luo-	**Alimento più consumato o distribuito o prodotto**	**Non conformità alimento**	**Pesticidi più usati**	**Non conformità residuo – alimento**	**Non conformità residuo**

ghi del prelievo citati al paragrafo 1					
100 distributori alimenti	mele, pesche banane	ananas	dalle info ricevute dai fornitori tebuconazolo	mele - clormequat	tebuconazolo
1000 agricoltori	mele fragole altro	fragole	Dai dati di vendita dei pesticidi acetamiprid	folpet - banane	Fipronil
700 trasformatori	mele	Pesche sciroppate	dalle info ricevute dai fornitori tebuconazolo	Tebuconazolo - uva	Acetamiprid

In relazione al fattore di trasformazione dei prodotti disidratati si specifica che i laboratori dovranno utilizzare il modello di calcolo che ha predisposto e divulgato l'Istituto Superiore di Sanità tramite nota ufficiale e durante i workshop dei laboratori nazionali di riferimento.

Si chiede inoltre di prestare attenzione ai campioni che hanno più residui e situazioni di superamenti del limite massimo di residuo risalendo alle cause che possono aver generato tale situazione, anche interagendo con i Servizi regionali che si occupano dei controlli sull'immissione in commercio e utilizzo dei prodotti fitosanitari.

b. Campioni risultati non conformi nei controlli del 2020 in ambito europeo

Si chiede inoltre di effettuare un campione, tra quelli prelevati con ragione piano nazionale, degli alimenti associati ai residui risultati non conformi ai controlli dell'Unione Europea da parte di altri Stati membri riportati nel paragrafo 2.2.c

c. Tipologie di alimenti da sottoporre a controllo

Il decreto del 23 dicembre 1992 riporta per i prodotti alimentari delle voci di gruppo. Di seguito si forniscono delle indicazioni attuali utilizzate nell'Unione europea per individuare i campioni e raccogliere i risultati dei controlli.

c.1 Cereali e prodotti a base di cereali (punto 1.4.7 tabella per la rendicontazione delle attività di controllo degli alimenti del PNI)

c.1.a Cereali

Possono essere campionati con ragione "cereale" tutti gli alimenti citati nel regolamento (UE) 2018/62 (allegato I al regolamento CE 396/2005) alle voci il cui codice inizia per 05 sia nell'allegato I parte A (prodotti di origine vegetale e animale ai quali si applicano gli LMR), che nell'allegato I parte B (altri prodotti ai quali si applicano gli stessi LMR) di tale regolamento, in grani interi. Campioni di frumento in grani interi sono considerati depurati delle scorie naturalmente presenti. Si fa tuttavia presente che gli LMR sono applicati ai grani interi compresa la crusca e solo per avena, orzo, spelta, grano saraceno e alcuni pseudocereali, ai quali non è possibile eliminare i tegumenti mediante battitura, gli LMR si applicano a tali cereali con i tegumenti rimanenti (in tracce) mentre per i campioni di riso in grani potrà essere scelto, in aggiunta al riso bruno (decorticato), anche il riso bianco o brillato, in quest'ultimo caso va applicato un fattore di trasformazione pari a 0,8. Al posto dei cereali in grani potranno essere campionate anche le farine integrali. Si precisa che i cereali in grani interi (frumento, riso, etc) dovranno essere prelevati dalle Regioni/Province Autonome maggiormente produttrici, almeno in misura del 40% del campionamento previsto dal decreto 23 dicembre 1992, presso le aziende produttrici o presso i depositi delle stesse compresi gli impianti di molitura. Il restante campionamento di cereali per tali Regioni/Province Autonome potrà essere di riso bianco, brillato o farine.

c.1.b Cereali processati: prodotti a base di cereali

Potranno essere prelevati su base volontaria e qualora sia conosciuto in anticipo il fattore di processo dell'alimento i prodotti derivati dai cereali diversi dalle farine (pane, pasta, etc). In particolare si fa presente che i campionamenti alla trasformazione potranno riguardare sia la materia prima (cereali), per la verifica della conformità a monte del processo di trasformazione della materia prima, sia il prodotto finito (pane , pasta) per gli alimenti di interesse nazionale e regionale, per la verifica della conformità a valle del processo. I laboratori ufficiali devono essere in possesso dei fattori di processo che intendono usare per l'analisi prima che questa venga eseguita e devono essere in possesso di un metodo accreditato sul prodotto trasformato da analizzare.

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c.2 Frutta e ortaggi (punto 1.4.5 tabella per la rendicontazione delle attività di controllo degli alimenti del PNI)

c.2.1Ortaggi

Possono essere campionati con ragione "ortaggi" gli alimenti sia freschi sia congelati, ma non trasformati, citati nel regolamento UE 2018/62 alle voci il cui codice inizia per 02 e 03 (legumi da granella) e presenti sia nell'allegato I parte A, che nell'allegato I parte B di tale regolamento.

c.2.2 Frutta

Possono essere campionati con ragione "frutta" gli alimenti sia freschi sia congelati, ma non trasformati, citati nel regolamento UE 2018/62 alle voci il cui codice inizia per 01 e presenti sia nell'allegato I parte A, che nell'allegato I parte B di tale regolamento.

c.3 Olio e grassi ed emulsioni di oli e grassi
(punto 1.4.3 tabella per la rendicontazione delle attività di controllo degli alimenti del PNI)

c.3.1 Olio

Possono essere campionati con ragione "olio" gli alimenti citati nel regolamento UE 2018/62 alle voci il cui codice inizia per 04 ad eccezione dell'olio di mais il cui codice inizia per 05 che sono presenti sia nell'allegato I parte A, che nell'allegato I parte B di tale regolamento e sono soggetti alla trasformazione che dal seme porta all'olio.

c.3.2 Grassi ed emulsioni di oli e grassi

Su base volontaria e qualora sia conosciuto, in anticipo, il fattore di processo possono essere campionati grassi vegetali quali il burro di cacao, il burro di arachidi o emulsioni quali maionese.

In particolare si fa presente che i campionamenti alla trasformazione potranno riguardare sia la materia prima (semi di cacao, arachidi), per la verifica della conformità a monte del processo di trasformazione della materia prima, sia il prodotto finito (burro di cacao, burro di arachidi) per gli alimenti di interesse nazionale e regionale, per la verifica della conformità a valle del processo. I laboratori ufficiali devono essere in possesso dei fattori di processo che intendono usare per l'analisi prima che questa venga eseguita e devono essere in possesso di un metodo accreditato sul prodotto trasformato da analizzare.

c.4 Bevande (punto 1.4.17 tabella per la rendicontazione delle attività di controllo degli alimenti del PNI)

c.4.1 Bevande alcoliche, incluse le bevande analoghe senza alcol o a basso tenore alcolico

c.4.1.1Vino

Possono essere campionati con ragione "vino", le uve da vino che hanno il codice 0151020 e le altre tipologie di uva da vino citate nel regolamento UE 2018/62 allegato I parte B e sono soggette alla trasformazione che dall'acino porta al vino.

c.4.1.2 Altre bevande alcoliche

Potranno essere prelevati su base volontaria e qualora sia conosciuto, in anticipo, il fattore di processo dei campioni di altre bevande alcoliche (birra, spumante, etc).

In particolare si fa presente che i campionamenti alla trasformazione potranno riguardare sia la materia prima (orzo), per la verifica della conformità a monte del processo di trasformazione della materia prima e sia il prodotto finito (birra) per gli alimenti di interesse nazionale e regionale, per la verifica della conformità a valle del processo. I laboratori ufficiali devono essere in possesso dei fattori di processo che intendono usare per l'analisi prima che questa venga eseguita e devono essere in possesso di un metodo accreditato sul prodotto trasformato da analizzare.

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c.5 Carni fresche (punto 1.4.9 tabella per la rendicontazione delle attività di controllo degli alimenti del PNI)

Possono essere campionati con ragione "carni fresche" gli alimenti sia freschi, sia congelati, ma non trasformati, citati nel regolamento (UE) 2018/62 alle voci il cui codice inizia per 101 e presenti sia nell'allegato I parte A, che nell'allegato I parte B di tale regolamento.

c.6 Carni macinate, preparazioni di carni, e carni separate meccanicamente (CSM) (punto 1.4.10 tabella per la rendicontazione delle attività di controllo degli alimenti del PNI)

In alternative alle carni fresche possono essere prelevate le carni macinate come definite nell'allegato I al regolamento (CE) 853/2004 qualora non disponibili le carni fresche al commercio.

c.7 Prodotti lattiero-caseari (punto 1.4.1 tabella per la rendicontazione delle attività di controllo degli alimenti del PNI)

c.7.1 Latte

Possono essere campionati con ragione “latte” gli alimenti citati nel regolamento UE 2018/62 alle voci il cui codice inizia per 102 e sono presenti sia nell’allegato I parte A, che nell’allegato I parte B di tale regolamento. Per i trasformati si rimanda al punto 7.

c.7.2 Altri prodotti lattiero caseari

Potranno essere prelevati su base volontaria e qualora sia conosciuto, in anticipo, il fattore di processo dei campioni di formaggio, yogurt ed altri derivati

In particolare si fa presente che i campionamenti alla trasformazione potranno riguardare sia la materia prima (latte), per la verifica della conformità a monte del processo di trasformazione della materia prima, sia il prodotto finito (formaggio, yogurt) per gli alimenti di interesse nazionale e regionale, per la verifica della conformità a valle del processo. I laboratori ufficiali devono essere in possesso dei fattori di processo che intendono usare per l’analisi prima che questa venga eseguita e devono essere in possesso di un metodo accreditato sul prodotto trasformato da analizzare.

c.8 Alternativi ai prodotti lattiero caseari (punto 1.4.2 tabella per la rendicontazione delle attività di controllo degli alimenti del PNI)

Potranno essere prelevate su base volontaria e qualora sia conosciuto, in anticipo, il fattore di processo dei campioni di bevande pronte (bevande a base di soia, di mandorla, di orzo, di avena, etc.)

In particolare si fa presente che i campionamenti alla trasformazione potranno riguardare sia la materia prima (semi di soia, semi di mandorla, semi di orzo, semi di avena) per la verifica della conformità a monte del processo di trasformazione della materia prima, sia il prodotto finito (bevande a base di soia, di mandorla, di orzo, di avena, etc.) per gli alimenti di interesse nazionale e regionale, per la verifica della conformità a valle del processo. I laboratori ufficiali devono essere in possesso dei fattori di processo che intendono usare per l’analisi prima che questa venga eseguita e devono essere in possesso di un metodo accreditato sul prodotto trasformato da analizzare.

c.9 Uova ed ovoprodotti (punto 1.4.13 tabella per la rendicontazione delle attività di controllo degli alimenti del PNI)

Devono essere campionati con ragione “uova” gli alimenti citati nel regolamento UE 2018/62 alle voci il cui codice inizia per 103 e sono presenti sia nell’allegato I parte A, che nell’allegato I parte B di tale regolamento.

c.10 Pesci e prodotti della pesca (punto 1.4.12 tabella per la rendicontazione delle attività di controllo degli alimenti del PNI)

Con riguardo ai prodotti ittici si precisa che ancorchè, al momento non sono stabiliti valori di limiti massimi di residui specifici dal regolamento (CE) 396/2005, è necessario effettuare i prelievi come monitoraggio volontario in quanto previsto dal decreto del 23 dicembre 1992.

c.11 Zucchero, sciroppi, miele ed edulcoranti da tavolo (punto 1.4.14 tabella per la rendicontazione delle attività di controllo degli alimenti del PNI)

In applicazione alla nota 7 del regolamento UE 2018/62 è possibile campionare, tra gli alimenti alle voci il cui codice inizia per 104, il miele per valutare la conformità dei residui riscontrati al regolamento (CE) 396/2005.
Si invita ciascuna regione a prelevare almeno due campioni per gli analiti da ricercare si rimanda al punto 2.2 a.
In merito allo zucchero come saccarosio si precisa che sono fissati i limiti massimi di residuo per le piante da zucchero ad esempio per la canna da zucchero o per la barbabietola da zucchero pertanto lo zucchero è da considerarsi un processato delle piante da zucchero.
I campionamenti di questo alimento avverranno su base volontaria qualora sia conosciuto, in anticipo, il fattore di processo e la derivazione dell'alimento.
In particolare si fa presente che i campionamenti alla trasformazione potranno riguardare sia la materia prima (barbabietola da zucchero) per la verifica della conformità a monte del processo di trasformazione della materia prima, sia il prodotto finito (zucchero) per gli alimenti di interesse nazionale e regionale, per la verifica della conformità a valle del processo. I laboratori ufficiali devono essere in possesso dei fattori di processo che intendono usare per l'analisi prima che questa venga eseguita e devono essere in possesso di un metodo accreditato sul prodotto trasformato da analizzare.

c.12 Sali, spezie, zuppe, minestre, salse etc (punto 1.4.15 tabella per la rendicontazione delle attività di controllo degli alimenti del PNI)
Potranno essere prelevate su base volontaria anche a seguito di precedenti non conformità di prodotti importati, campioni di spezie

c.13 **Altro alimenti non compresi nelle categorie precedenti (punto 1.4.22 tabella per la rendicontazione delle attività di controllo degli alimenti del PNI)**

Sulla base degli esiti dei controlli precedenti, delle produzioni e dei consumi regionali potrà essere prelevata qualsiasi altra tipologia di alimento fin qui non prevista e nelle quantità ricavate *tenendo in considerazione* la valutazione dei rischi facendola ricadere in una delle categorie previste dal regolamento (UE) 2019/723 e qualora siano noti in anticipo i fattori di processo in caso fosse campionato un alimento trasformato.

In particolare si fa presente che i campionamenti alla trasformazione potranno riguardare sia la materia prima, per la verifica della conformità a monte del processo di trasformazione della materia prima, sia il prodotto finito per gli alimenti di interesse nazionale e regionale, per la verifica della conformità a valle del processo. I laboratori ufficiali devono essere in possesso dei fattori di processo che intendono usare per l'analisi prima che questa venga eseguita e devono essere in possesso di un metodo accreditato sul prodotto trasformato da analizzare.

2.2 Criteri di scelta degli analiti

a. Analiti per il piano nazionale

Il documento guida SANCO/12745/2013 22-23 November 2021 rev. 14(5) "Working document on pesticides to be considered for inclusion in the national control programmes to ensure compliance with maximum residue levels of pesticides residues in and on food of plant and animal origin" (WD, allegato 2) è stato prodotto per dare supporto agli Stati Membri (SM) circa la predisposizione dei piani di monitoraggio nazionali anche se non ha carattere di obbligatorietà. Il documento, al capitolo,4 indica le molecole candidate all'inclusione dei prossimi Programmi Coordinati di Controllo dell'Unione Europea (PCCUE), in base ad una rivalutazione annuale. Negli allegati sono presenti elenchi di analiti da valutare in base a diverse esigenze e priorità da considerare.

Preso atto delle attuali capacità analitiche dei laboratori ufficiali italiani, si invita a prevedere, laddove possibile, l'inclusione di tali molecole nelle ricerche per il piano nazionale del 2023. Si riporta di seguito una descrizione del documento sopra citato con l'indicazione delle priorità.

- Capitolo 4**:** sostanze prioritarie in quanto candidate all'inclusione dei prossimi PCCUE, distinte nei seguenti sottogruppi: sostanze riscontrate con maggior frequenza, con superamento di LMR o con notifiche RASFF; analiti di recente approvazione; sostanze sottoposte a revisione secondo l'articolo 12 del Reg.(CE) n.396/2005; composti ad elevata tossicità.
- Allegato I: sono incluse le sostanze per le quali è opportuna una conoscenza migliore delle positività riscontrate a livello europeo al fine di procedere con una opportuna valutazione del

rischio da parte dell'EFSA. Pertanto tali molecole sono da ricercare dai laboratori che possiedono già metodi al riguardo o che hanno le potenzialità per implementarli.

- Allegato II: sono riportati i composti per i quali è richiesto un supporto da parte dei Laboratori Europei di Riferimento per la messa a punto di un metodo analitico adeguato per l'intera definizione di residuo da poter proporre ai laboratori europei, pertanto tali molecole non sono prioritarie. I laboratori nazionali di riferimento collaborano con i laboratori europei di riferimento e con i laboratori del controllo ufficiale in caso di motivate esigenze alla messa in atto di tali metodi.
- Allegato III: sono elencati i composti d'interesse per una valutazione del rischio cumulativo da parte dell'EFSA. Tali molecole sono da ricercare dai laboratori che possiedono già metodi al riguardo o che hanno le potenzialità per implementarli.
- Allegato IV: sono riportati i composti che, in considerazione dei programmi di monitoraggio effettuati dagli SM negli anni precedenti, si ritiene abbiano una scarsa positività e che quindi sono stati eliminati sia dai programmi coordinati europei (PCCUE) che dal capitolo 4 del WD. Tali analiti potrebbero esser considerati meno rilevanti ma sono da ricercare dai laboratori che possiedono già metodi al riguardo.
- Allegato VII: l'elenco di analiti è prioritario in quanto è di corredo al PCCUE. Sono indicate le sostanze da ricercare nella matrice "**miele**", matrice esclusa dal PCCUE poiché gli analiti per i prodotti di origine animale del piano (analiti lipofili) non sarebbero adeguati da ricercare sul miele per il quale sono stati integrati anche ulteriori composti in elenco.
- Allegato VIII: è riportato un elenco di matrici di interesse per i piani di monitoraggio degli SM, da valutare in base alle colture ed importazioni/esportazioni nazionali. Per le matrici di interesse all'importazione si rimanda al punto **4.**
- Allegato IX: l'elenco di analiti è prioritario in quanto sono composti non più presenti nel WD poiché trasferiti nel PCCUE, includendo gli analiti da ricercare già nel 2023 e quelli che sono inseriti per il 2024.

Considerando, inoltre, le imminenti restrizioni d'uso sui pesticidi PFAS si chiede di prendere in esame, qualora disponibile il metodo, i seguenti pesticidi: Triflusulfuron-methyl, Flutianil, Flurochloridone, tembotrione, mefentrifluconazole, prosulfuron, gamma cyhalothrin, beflubutamid, penoxsulam, flumetralin.

Si chiede inoltre di prendere in considerazione, qualora disponibile il metodo, le seguenti sostanze che per gli indicatori del rischio del Piano di azione nazionale sono risultate prioritarie da monitorare: 2,4-Diclorofenossiacetico Acido, Tebuconazolo, Lenacil, Propizamide, Clorotoluron, Miclobutanil,

Flufenacet, Fluopicolide, Metossifenozide, Nicosulfuron e le seguenti per la valutazione del rischio sugli alimenti: deltamethrin, formetanate, oxamyl, flonicamid anche perché quest'ultime sostanze sono obbligatorie per il piano europeo

L'ufficio 7 in accordo con i laboratori nazionali di riferimento per i residui di pesticidi fornisce la **Tabella 8** con l'elenco dei laboratori identificati come "classe A" a seguito degli esiti dei Proficiency Tests Europei (EUPTs) di settore degli anni 2019-2020-2021. Si precisa che la "classe A" è attribuita ai laboratori che nel EUPT di settore abbiano effettuato l'analisi di al meno il 90% degli analiti "obbligatori" della *target pesticide list*, abbiano identificato e quantificato correttamente almeno il 90% degli analiti fortificati al campione test e non abbiano riscontrato falsi positivi. Nella tabella sono riportati i soli laboratori partecipanti agli EUPTs dei settori ortofrutta, cereali e prodotti di origine animale degli anni 2019-2020-2021.

Affinchè le Autorità competenti incaricate del prelievo dei campioni usino laboratori che insistono sul proprio territorio, le Regioni e le Province Autonome si impegnano a scegliere da tale lista i laboratori del controllo ufficiale presenti nel proprio territorio o al di fuori della Regione Provincia che eseguono tutte le analisi previste per il piano europeo. Qualora tali laboratori non abbiano sufficienti risorse per eseguire tutte le analisi di tutte le Regioni/Province Autonome dalle quali ricevono incarico, e qualora le risorse finanziarie delle Regioni/ Province Autonome e delle AASSLL non lo consentano, le Regioni/Province Autonome potranno scegliere laboratori anche in classe diversa dalla A e presenti nella tabella 6, se tali laboratori eseguono almeno l'80 % delle analisi previste per il piano europeo con metodo accreditato o con metodo almeno validato. Si precisa che questo rimane obiettivo per le analisi dei laboratori per il corrente anno per il piano europeo, ma che nei prossimi anni gli obiettivi verranno cambiati e i laboratori dovranno adeguarsi.

Le Regioni/Province Autonome si impegnano a fissare degli obiettivi sulle analisi da eseguire in modo che la percentuale di analiti del piano europeo sia pari al 100% e si impegnano a comunicare tali obiettivi al Ministero della salute. Si precisa altresì che se il laboratorio dalle Regioni/Province Autonome individuato esegue analisi per l'80% degli obiettivi del piano europeo potrà avvalersi, per raggiungere l'obiettivo nazionale sui residui di pesticidi, di altri laboratori appartenenti alla rete nazionale dei laboratori del controllo ufficiale di cui al decreto legislativo n 27 del 2021.

Si fa presente che per ogni sostanza attiva riportata nel documento i residui dovranno essere analizzati secondo la definizione legale di residuo prevista dal regolamento 396/2005 e successive modifiche.

Inoltre dovranno essere ricercati i clorati e i neonicotinoidi sia negli alimenti di origine vegetale che in quelli di origine animale.

Si richiede di continuare a monitorare i residui di fosfonati, fosfina, fosfuri e fosetyl alluminio saltuariamente.

Dovranno inoltre essere effettuate analisi per la ricerca di **glyphosate** nei prodotti d'importazione e prevalentemente sui cereali.

Dovranno essere effettuate analisi per la ricerca di **captano** con le seguenti disposizioni:

Le Regioni/Province Autonome nel cui territorio insistono agricoltori di mele e di pere effettueranno un campione di mele e un campione di pere entrambi costituiti da 4 aliquote; tali campioni saranno prelevanti con ragione piano nazionale, ma non in aggiunta a quelli previsti dal decreto del 23 dicembre 1992, presso gli agricoltori (Lombardia, Piemonte, la Provincia di Bolzano e di Trento).

Le Restanti Regioni/Province Autonome effettueranno un campione di mele e un campione di pere entrambi costituiti da 5 aliquote. Tali campioni saranno prelevati con ragione piano nazionale, ma non in aggiunta a quelli previsti dal decreto del 23 dicembre 1992, presso aziende del mercato nazionale.

Il controllo presso le aziende produttrici consisterà nella verifica nel quaderno di campagna dell'uso di prodotti a base di captano e degli altri prodotti utilizzati, del prelievo del campione ed esecuzione dell'analisi del captano. In tali aziende si dovrà verificare anche l'approvvigionamento di acqua e si dovrà effettuare anche il campionamento dell'acqua se la merce che viene venduta subisce un lavaggio prima dell'immissione sul mercato. Presso le altre aziende sul mercato il controllo consisterà nella verifica delle analisi in autocontrollo per la ricerca del captano qualora disponibili e/o nella verifica degli esiti delle analisi dei fornitori, nel campionamento e nell'analisi per la ricerca di captano. Con riguardo alle analisi le AASSLL conferiranno il campione ai laboratori IZS Lombardia ed Emilia Romagna sezione di Brescia, Laboratorio di Sanità pubblica di Bergamo e ARPA Lazio o altro laboratorio che attualmente si aggiunge a questi perché ha accreditato il metodo.

L'ossido di etilene ed il suo metabolita 2 cloro etanolo dovranno essere ricercati obbligatoriamente per il piano europeo sui fagioli secchi, sulla segale e sul riso e a livello regionale, tenendo in considerazione la valutazione dei rischi basata sulle allerte anche in autocontrollo che hanno riguardato le Regioni/Province Autonome, mentre potrà essere volontariamente esaminato sulle spezie. Si ricordi che l'IZS Lombardia ed Emilia Romagna esegue tale prova. In merito alla valutazione della conformità si guardi la nota 0014241-06/04/2022-DGISAN-MDS-P sulla programmazione delle attività di controllo.

Tabella 2: Allerte europee nel 2022 su ossido di etilene

Ethylene oxide in whole Cassia sticks (cinnamomum) from India	24-03-2022 14:30:12

Ethylene oxide in spice mix from India	24-03-2022 12:57:25
Presenza di anidride solforosa non autorizzata in preparazione a base di Macapuno triturato in sciroppo proveniente dalle Filippine//unauthorized	16-02-2022 13:36:12
Presence of ethylene oxide in fenugreek powder from India	09-02-2022 15:48:20
ethylene oxide above the limits in an ingredient used in tomato meatballs from France	18-01-2022 13:24:21

L'analisi e la valutazione della conformità dei **clorati** la cui ricerca è prevista dall'allegato I al WD dovrà prendere in considerazione, sulla matrice pepe bianco e pepe verde, il fattore di processo forniti dalle aziende produttrici degli alimenti. L'applicazione del fattore di processo è necessaria se il pepe bianco è ottenuto dalla decorticazione e lavaggio con acque purificate del pepe nero e se il pepe verde è ottenuto dall'essiccatura del pepe nero raccolto in epoca precoce dopo lavaggio con acqua. Si riporta di seguito uno stralcio di verbale dell'ultima riunione Standing Committee on Plants, Animals, Food and Feed Section Phytopharmaceuticals – Residues del 23 - 24 November 2020

The Committee agreed that processing factors shall be applicable for green and white peppercorns in enforcing MRLs for chlorate residues in the sense of footnote (A) of Regulation (EU) 749/2020. A Member State questioned which processing factor should be used in this case. The Commission reminded that, according to that footnote, the burden of proof lies with the food business operator and that monitoring data for the level of chlorate residues on green and white peppercorn are available.

Il comitato ha convenuto che i fattori di trasformazione sono applicabili ai grani di pepe verde e bianco nell'applicazione degli LMR per i residui di clorato ai sensi della nota a piè di pagina (A) del regolamento (UE) n. 749/2020. Uno Stato membro si è chiesto quale fattore di trasformazione dovesse essere utilizzato nel caso di specie. La Commissione ha ricordato che, secondo tale nota a piè di pagina, l'onere della prova incombe all'operatore del settore alimentare e che sono disponibili dati di monitoraggio per il livello di residui di clorato sul grani di pepe verde e bianco.

b. Analiti risultati non conformi nei controlli del 2021

Tra i residui da analizzare per il piano nazionale ci saranno quelli risultati non conformi nel 2021 riportati in allegato 1 alla Tabella 1 parte a.

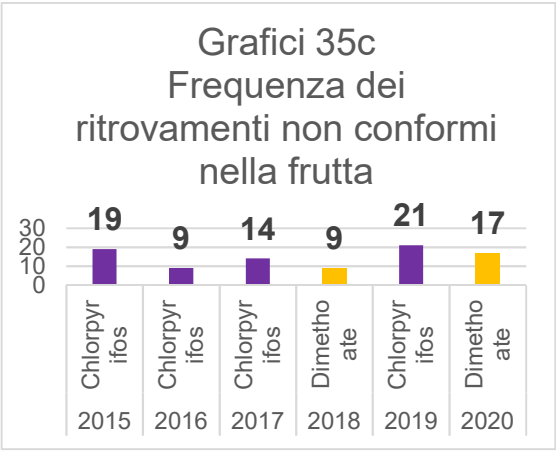
c. Analiti risultati non conformi o relativi a particolari problematiche nei controlli del 2020 nell'Unione Europea.

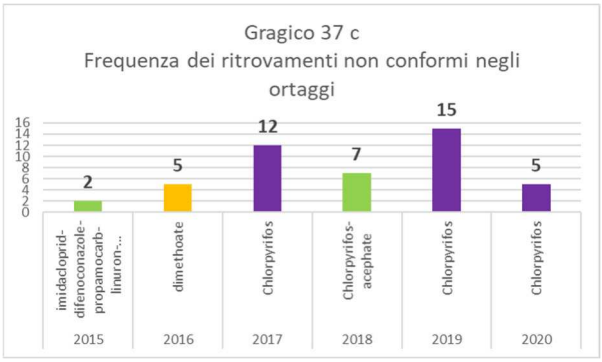
Si riportano di seguito le raccomandazioni EFSA conseguenti a non conformità rilevate in Europa nelle varie matrici, elevata frequenza di ritrovamento. Sono da considerare prioritarie per la programmazione dei controlli del 2023 le combinazioni alimento/analiti riscontrati non conformi nel 2020 in Europa, se reperibili sul mercato.

d. Combinazioni analiti alimenti - Campionamenti dei prodotti in commercio

- Risultati non conformi di campioni di origine europea per superamento limite di sostanze non approvate ai sensi del regolamento 1107/2009
    - arance: dimethoate (RD), linuron (RD),
    - fagioli secchi: triadimenol (RD),
    - carote: iprodione (RD), linuron (RD), dieldrin (RD), chlorpyrifos-methyl (RD)
    - pere: chlorpyrifos (RD), iprodione (RD), diphenylamine (RD),
    - patate: chlorpyrifos (RD), fipronil (RD),
    - kiwi: dimethoate (RD),
    - segale in grani: chlorpyrifos (RD), thiacloprid (RD),
    - riso: thiamethoxam (RD),
    - grasso di pollame: hexachlorobenzene (RD)

Si chiede inoltre di effettuare obbligatoriamente le ricerche di clorpirifos e dimetoato nella frutta e negli ortaggi che sono stati per diversi anni non conformi come si evince dal rapporto sui risultati dei controlli di residui di pesticidi in alimenti 2020:





Si chiede inoltre di effettuare l'analisi e i campionamenti dei seguenti alimenti fosetyl-Al - fosfonati espressi come acido fosfonico nei prodotti biologici

Oxymatrine, in miele

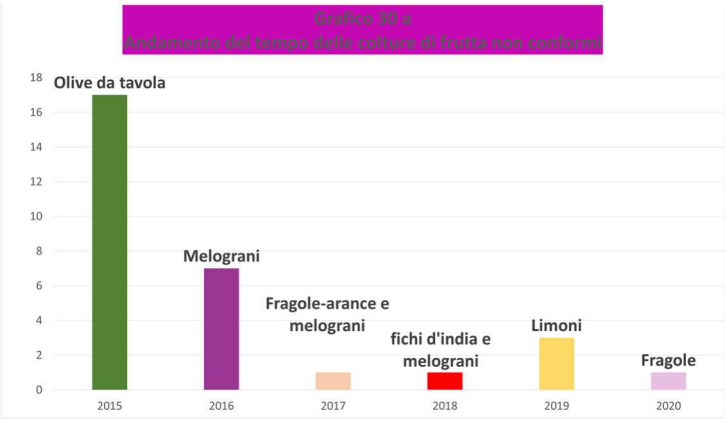
l'analisi e i campionamenti dei seguenti alimenti delle foglie di vite e dei funghi

Campionamenti dei prodotti all'importazione

- Risultati non conformi per superamento limite di sostanze non approvate di campioni di origine da paesi terzi ai sensi del regolamento 1107/2009

1. dried beans: carbaryl (RD), chlorpyrifos (RD), fenitrothion (RD), hexaconazole (RD),
2. carrots: iprodione (RD),
3. kiwi: spirodiclofen (RD),
4. arance: bromopropylate (RD), carbendazim (RD), fenbutatin oxide (RD), profenofos (RD),
5. Pere: chlorpyrifos (RD),
6. rice: carbendazim (RD), chlorpyrifos (RD), hexaconazole (RD), profenofos (RD), thiamethoxam (RD), triazophos (RD), tricyclazole (RD)

Si chiede di prestare attenzione alle partite di melograni che sono risultate diverse volte non conformi nei controlli all'importazione



3 FREQUENZA E INDIRIZZI PROGRAMMA COORDINATO DI CONTROLLO DELL'UNIONE EUROPEA (PCCUE)

Il programma coordinato comunitario per l'anno 2023 di cui al regolamento UE N. 741/2022 prevede:

- per gli alimenti di origine vegetale i campionamenti riportati nella **Tabella 2c** e le analisi per la ricerca dei residui di prodotti fitosanitari riportati nella **Tabella 4**;
- per gli alimenti di origine animale i campionamenti riportati nella **Tabella 3** e le analisi per la ricerca dei residui di prodotti fitosanitari riportati nella **Tabella 5**;
- Per i baby food, che sono esaminati secondo la definizione legale riportata sul regolamento 396/2005, le analisi per la ricerca dei residui di prodotti fitosanitari riportati nell'allegato I al regolamento 741/2022 (**Tabella 4** e **Tabella 5** di questo documento) e nel regolamento UE 2016/127 e nel regolamento UE 2016/128**;**

Le stesse matrici del piano coordinato, di alimenti non trasformati o congelati, potranno essere prelevati sia per il piano nazionale che per il piano coordinato in modo che siano rispettate le tabelle 2.
Per le materie prime da analizzare, le parti dei prodotti a cui si applicano gli LMR devono essere analizzate per il prodotto principale del gruppo o del sottogruppo quale figurante nell'allegato I, parte A, del regolamento (CE) n. 62/2018, salvo indicazione contraria.
Qualora siano prelevati dei prodotti congelati per essi, se opportuno, dovrà essere indicato il fattore di trasformazione (ad esempio per i congelati il cui processo prevede una sbollentatura che può portare ad una degradazione del residuo).
Inoltre in mancanza di un numero sufficiente di chicchi di segale è possibile prelevare dei campioni di farina integrale di segale indicando il fattore di processo.
Per ogni tipologia di alimento sarà previsto, ove disponibile, un campione di origine biologica.
Per specificare i codici foodex 2 da usare per la trasmissione dei risultati dei controlli è riportata anche la **Tabella 10** con l'elenco degli alimenti e dei codici e del tipo di programma.

4 INDICAZIONI SUI CONTROLLI ALL'IMPORTAZIONE

Si invitano i posti di controllo frontalieri a tener conto nella programmazione dei controlli all'importazione dei campionamenti delle combinazioni matrici/sostanze individuabili nella **Tabella 2c** e nella **Tabella 4.**
Si fa altresì presente che sono risultati essere non conformi nel 2021 e nel 2022 i campioni riportati nell'allegato 1 alla **tabella 1b parte 1 e parte 2 2** e pertanto è necessario una particolare attenzione nei controlli, ove già non previsto per le tipologie di alimenti e gli analiti riportati in tale tabella.
Inoltre si chiede anche di verificare quanto riportato per i controlli all'importazione al punto 2.2.c.
Si fa presente inoltre che le procedure di campionamento devono essere conformi a quanto riportato nel punto 6.

Con riguardo alla trasmissione dei risultati dei controlli i Laboratori del controllo ufficiale devono trasmettere i risultati con le modalità stabilite al punto 9 anche per i campioni all'importazione.

5 COORDINAMENTO DELLE ATTIVITÀ DI CONTROLLO

Le Regioni/Province Autonome si impegnano a fornire alle Aziende Sanitarie Locali territorialmente competenti specifiche indicazioni per l'effettuazione dei campionamenti sopra riportati, per la puntuale compilazione dei verbali, anche utilizzando il modello aggiuntivo di verbale menzionato al paragrafo 6, ed individuando, altresì, i Laboratori del controllo ufficiale accreditati cui devono essere conferiti i campioni per l'effettuazione degli accertamenti analitici e *verificando che sia eseguito da parte delle AASSLL il monitoraggio dei risultati analitici.*

Le Regioni e le Province Autonome si impegnano, altresì, a monitorare, oltre all'andamento della programmazione, annualmente anche direttamente i tempi di analisi dei laboratori, che non devono superare i 35 giorni lavorativi medi dal campionamento, in modo da ricevere i risultati in tempo utile per le misure da adottare in caso di non conformità.

Gli esiti dei monitoraggi sui tempi di analisi, sia delle AASSLL che della Regione e Provincia Autonoma devono essere comunicati insieme alla scelta del laboratorio del controllo ufficiale al Ministero della salute annualmente entro il 28 febbraio di ogni anno.

La **Tabella 6,** messa a punto in collaborazione con il Laboratorio Nazionale di riferimento presso l'Istituto Superiore di Sanità, riporta l'elenco dei laboratori del controllo ufficiale accreditati, con la precisazione di quelli che eseguono le analisi degli analiti identificati come analizzabili con metodo monoresiduo, oltre che multiresiduo, che le Autorità Regionali potranno individuare per lo svolgimento delle attività analitiche. Per l'anno corrente viene aggiunta la **Tabella 7** con gli analiti eseguiti dai 18 ai 24 laboratori e con tutti i residui esaminati e trasmessi ad EFSA nel 2021.

La **Tabella 8**, messa a punto con i laboratori nazionali di riferimento contiene l'elenco dei laboratori che sono classificati in classe A in base agli esiti dei proficiency test di settore dei Laboratori di riferimento europei.

Su conforme avviso del LNR si invitano codesti Assessorati a razionalizzare l'attività di controllo dei laboratori ufficiali anche tenendo conto della possibilità di effettuare accordi tra Regioni/Province Autonome circa l'utilizzo dei laboratori esistenti per far fronte alla richiesta di analisi prevista dal presente programma.

Le Regioni e le Province Autonome comunicano annualmente la programmazione dei controlli, le designazioni dei laboratori e gli esiti dei monitoraggi sopra citati al Ministero della salute- Direzione Generale per l'igiene e la sicurezza degli alimenti e la nutrizione.

I Laboratori Nazionali di Riferimento dell'Istituto Superiore di Sanità e il Laboratorio Nazionale di riferimento dell'Istituto Zooprofilattico Sperimentale del Piemonte, Liguria e Valle d'Aosta sono invitati a fornire il loro supporto tecnico scientifico ai Laboratori del controllo ufficiale per lo svolgimento del programma nazionale e del programma coordinato dei controlli dell'Unione Europea per l'anno 2023

I Laboratori Nazionali di Riferimento comunicano al Ministero della salute- Direzione generale per l'igiene e la sicurezza degli alimenti e la nutrizione, le informazioni sulla partecipazione dei Laboratori del controllo ufficiale ai proficiency test organizzati dai Laboratori di riferimento comunitari e nazionali.

Il Ministero della salute una volta ricevuto il rapporto dei Laboratori nazionali di riferimento con i dettagli per ciascun laboratorio del controllo ufficiale dei risultati della partecipazione ai proficiency test, li comunica annualmente alle Regioni/Province Autonome che adottano le misure opportune.

I laboratori nazionali di riferimento comunicano annualmente al Ministero della salute, ufficio 7 - DGISAN i risultati conseguiti ai proficiency test ai quali hanno partecipato organizzati dai laboratori di riferimento europei o da altri enti organizzatori,

Le Regioni/Province Autonome, comunicano all'ufficio 7 ed al laboratorio individuato, per ogni campione dichiarato non conforme dal Laboratorio, le misure prese (sanzioni – allerte, etc) e la possibile causa che può aver determinato il superamento del limite, utilizzando il modello allegato contenuto nella **Tabella 9** parte a entro la data di validazione riportata al paragrafo 7.

Tra le possibili cause delle non conformità potranno essere scelte quelle elencate sotto la **Tabella** 9 parte b.

6 METODOLOGIA DI CAMPIONAMENTO E ANALISI

La procedura di campionamento deve essere conforme al Decreto legislativo n 27 del 2 febbraio 2021 che prevede che nel caso siano attuali norme europee queste debbano essere seguite. Attualmente costituisce norma cogente per il campionamento citata nel regolamento (UE) 2022/741 la direttiva 2002/63/CE che in Italia è stata recepita con il Decreto del Ministro della Salute del 23 luglio 2003 il quale non è stato ancora abrogato dal citato d.lgs n 27 del 2021 e risulta pertanto ancora vigente.

Dettagli sulle modalità di campionamento sono riportate sul rapporto Istisan 13/19 "*Indicazioni per il prelevamento di prodotti di origine vegetale per il controllo ufficiale dei residui di fitofarmaci ai sensi del DM 23 luglio 2003*" che costituisce linea guida, utilizzabile durante le attività di prelievo di campioni. La linea guida è disponibile sul sito dell'ISS al seguente percorso: pubblicazioni<rapporti ISTISAN< anno 2013/19. Si precisa tuttavia che la linea guida dovrà essere adattata, dai prelevatori, alla classificazione degli alimenti di cui regolamento UE 2018/62.

Il lotto da sottoporre a campionamento deve essere scelto in maniera casuale e dovrà essere preso sul mercato.

Si suggerisce inoltre a codesti Assessorati e a codesti Uffici di frontiera, come menzionato al paragrafo 5, di aggiungere al modello di verbale da loro predisposto e/o che utilizzano gli ispettori per il prelievo dei campioni, anche, il foglio aggiuntivo (**allegato 3**) che contiene elementi importanti per la corretta trasmissione dei dati all'EFSA. Lo stesso modello dovrà essere adottato, dagli altri enti che effettuano campionamenti di alimenti per la ricerca di residui di fitosanitari.

I Laboratori del controllo ufficiale, nello svolgimento delle loro attività, devono seguire il documento SANTE/11312/2021 "Analytical quality control and method validation procedures for pesticide residues analysis in food and feed" disponibile sul sito web della Commissione europea.

I campioni per il piano nazionale e per il piano coordinato europeo sono analizzati conformemente alle definizioni di residui di cui al regolamento (CE) 396/2005 e successive modifiche.

7 PROCESSI DI TRASFORMAZIONE

I campionamenti alla trasformazione potranno riguardare sia la materia prima (es. uva da vino), per la verifica della conformità a monte sulla materia prima e sia il prodotto finito per gli alimenti di interesse nazionale e regionale (es farine, pomodori secchi), per la verifica della conformità a valle del processo di trasformazione.

Relativamente al controllo dei prodotti trasformati (es derivati del latte) si predilige il campionamento della materia prima (es. latte) per la verifica della conformità a monte del processo di trasformazione in modo da evitare che si immetta sul mercato un prodotto non conforme ai limiti espressi nel regolamento (CE) n.396/2005.

8 ESECUZIONE DEI CONTROLLI

In sede di ispezione presso le aziende agricole oltre al prelievo del campione:

a) sarà verificato che le aziende agricole produttrici di vegetali, ove ritenuto opportuno, effettuino a campione il controllo dei residui dei prodotti fitosanitari che hanno utilizzato, effettuando delle analisi almeno annualmente o biennalmente a seconda delle condizioni d'impiego dei fitosanitari (allegato I Parte A punto 9 del regolamento 852/2004).
b) sarà verificata la rintracciabilità e i registri dei trattamenti con evidenze documentali e materiali e fisiche.

presso le aziende produttrici di trasformati di vegetali o negli altri luoghi previsti per il controllo (paragrafo 1):

c) sarà verificato che il sistema HACCP preveda il controllo della presenza nella materia prima e nel prodotto finito dei residui di prodotti fitosanitari non solo attraverso dichiarazioni, ma rilevato da evidenze di analisi in autocontrollo effettuate almeno annualmente.
d) la rintracciabilità con evidenze documentali e materiali e fisiche.

9 TRASMISSIONE DEI RISULTATI DEI CONTROLLI

I Laboratori del controllo ufficiale trasmettono al Ministero della salute - DGISAN i risultati del programma per l'anno 2023, in formato XML**,** usando le modalità stabilite dal Ministero che recepiscono lo Standard Sample Description 2 trasmesse ai Laboratori del controllo ufficiale e con la seguente procedura**:**

I campioni prelevati in un bimestre devono essere rendicontati nel sistema NSIS/RaDISAN entro la fine del bimestre successivo. Ad esempio, i campioni prelevati nel bimestre gennaio e febbraio devono essere rendicontati entro il 30 aprile dello stesso anno.

Si fa particolare riferimento al modello aggiuntivo di verbale che gli ispettori delle AASSLL e dei PCF dovranno utilizzare al fine di rendere disponibili ai laboratori le informazioni utili per la trasmissione dei risultati dei controlli del 2023 che prevede l'uso del foodex2.

Se la definizione del residuo di antiparassitario comprende più di un composto (sostanza attiva, metabolita e/o prodotto di degradazione o reazione), i laboratori comunicano i risultati delle analisi in base alla definizione completa del residuo. Inoltre, i risultati di tutti gli analiti che sono parte della definizione del residuo sono trasmessi separatamente, se misurati individualmente.

Per quanto riguarda i baby food, si specifica che i campioni sono valutati per i prodotti proposti come pronti al consumo o ricostituiti in base alle istruzioni dei produttori, tenendo conto dei Limiti Massimi di Residui fissati nei regolamenti (UE) 127/2016 e regolamento (UE) 128/2016, e del limite di 0,0 1mg/kg per gli altri residui non previsti in tali regolamenti. Se tali alimenti possono essere consumati sia nella forma come sono venduti, sia come ricostituiti, i risultati sono comunicati relativamente al prodotto non ricostituito così come è messo in vendita.

I Laboratori del controllo ufficiale dovranno fornire i rapporti di prova dei campioni non conformi.

I Laboratori, qualora esaminino alimenti trasformati, sono, altresì, invitati a comunicare i fattori di trasformazione con la trasmissione dei risultati.
Gli assessorati alla sanità delle Regioni e Province Autonome effettueranno, nel caso i Laboratori del controllo ufficiale abbiano trasmesso i risultati dei controlli entro il 30 giugno, la validazione dei dati trasmessi dai Laboratori del controllo ufficiale utilizzando le modalità stabilite per il flusso unico nazionale

- **entro il 31 luglio 2023 per la validazione parziale dei dati, relativa ai dati disponibili nel sistema dedicato in NSIS/RaDISAN a quella data**;
- **entro il 29 febbraio 2024 per l'intero 2023**.

L'ufficio 7 della DGISAN elabora, verifica e trasmette i risultati del controllo ufficiale del presente programma all'EFSA e agli altri Stati Membri **entro il 30 giugno 2024.**
Il rapporto annuale dei risultati del controllo ufficiale sui residui dei prodotti fitosanitari negli alimenti è pubblicato annualmente sul sito del Ministero della salute.

ALLEGATO I

Verifica dati da eliminare scritta dopo verifica

TABELLA 1 parte a: Campioni risultati irregolari nel 2021 da campionamento nazionale

Alimento	Codice foodex 2	Parametro rilevato	Punto di campionamento	Regione/PA campionante	Nazione di origine	Categoria
Pomodori	A0DMX	Chlorfenapyr	Dettagliante	Piemonte	Italia	ortaggi
Pomodori	A0DMX	Chlorfenapyr	Dettagliante	Piemonte	Italia	ortaggi
Pompelmi	A01CY	Buprofezin	Dettagliante	Lombardia	Turchia	frutta
Arance	A0DZB	Propiconazole (sum of isomers)	Grossista	Lombardia	Argentina	frutta
Pompelmi	A01CY	Chlorpyrifos	Grossista	Lombardia	Turchia	frutta
Pompelmi	A01CY	Chlorpyrifos-methyl	Dettagliante	Lombardia	Turchia	frutta
Banane	A01LC	Imazalil (any ratio of constituent isomers)	Grossista	Lombardia	Ecuador	frutta
Pesche comuni	A01GM	Dimethoate	Dettagliante Mobile e o mercato da strada	Bolzano	Italia	frutta
Broccoli	A00FN	Fluazifop-P (sum of all the constituent isomers of fluazifop, its esters and its conjugates, expressed as fluazifop)	Dettagliante	Bolzano	Italia	ortaggi
Lamponi	A01EP	Spiroxamine (sum of isomers)	Grossista	Trento	Italia	frutta
Ciliege (dolci)	A01GK	Omethoate	Dettagliante	Veneto	Italia	frutta
Pere	A01DP	Chlorpyrifos-methyl	Grossista	Veneto	Italia	frutta
Mandarini-	A01CD	Chlorpyrifos	Dettagliante	Veneto	Italia	frutta
Zucchine	A00JR	Metalaxyl including other mixtures of constituent isomers including metalaxyl-M (sum of isomers)	Dettagliante	Veneto	Italia	ortaggi
Arance	A0DZB	Chlorpyrifos	Dettagliante	Emilia_Romagna	Egitto	frutta

Alimento	Codice foodex 2	Parametro rilevato	Punto di campionamento	Regione/PA campionante	Nazione di origine	Categoria
Limoni	A01BY	Propiconazole (sum of isomers)	Dettagliante	Emilia_Romagna	Sud Africa	frutta
Meloni-	A00KF	Oxamyl	Grossista	Emilia_Romagna	Italia	ortaggi
Patate	A00ZT	Fluopicolide	Azienda agricola	Emilia_Romagna	Italia	ortaggi
Sedani	A00RY	Acetamiprid	Grossista	Emilia_Romagna	Italia	ortaggi
Mele	A01DJ	Chlorpyrifos-methyl	Grossista	Emilia_Romagna	Italia	frutta
Sedani	A00RY	Linuron	Dettagliante	Emilia_Romagna	Italia	ortaggi
Pere	A01DP	Triflumuron	Azienda agricola	Emilia_Romagna	Italia	frutta
Pere	A01DP	Phosmet (phosmet and phosmet oxon expressed as phosmet)	Grossista	Emilia_Romagna	Italia	frutta
Fragole	A01EA	Tebuconazole	Dettagliante	Emilia_Romagna	Italia	frutta
Ciliege (dolci)	A01GK	Dimethoate	Grossista	Emilia_Romagna	Italia	frutta
Sedani	A00RY	Propyzamide	Grossista	Emilia_Romagna	Italia	ortaggi
Mandarini	A01CD	Chlorpyrifos-methyl	Dettagliante	Emilia_Romagna	Italia	frutta
Farina di segale	A003J	Metalaxyl including other mixtures of constituent isomers including metalaxyl-M (sum of isomers)	Produttore	Emilia_Romagna	Italia	cereali
Ciliege (dolci)	A01GK	Omethoate	Azienda agricola	Emilia_Romagna	Italia	frutta
Ciliege (dolci)	A01GK	Omethoate	Grossista	Emilia_Romagna	Italia	frutta
Ciliege (dolci)	A01GK	Dimethoate	Azienda agricola	Emilia_Romagna	Italia	frutta
Pomodori	A0DMX	Chlorfenapyr	Dettagliante	Emilia_Romagna	Italia	ortaggi
Farina di segale	A003J	Triticonazole	Produttore	Emilia_Romagna	Italia	cereali

Alimento	Codice foodex 2	Parametro rilevato	Punto di campionamento	Regione/PA campionante	Nazione di origine	Categoria
Ciliege (dolci)	A01GK	Deltamethrin (cis-deltamethrin)	Grossista	Emilia_Romagna	Italia	frutta
pesche comuni	A01GM	Chlorpropham	Azienda agricola	Emilia_Romagna	Italia	frutta
pesche comuni	A01GM	Etofenprox	Dettagliante	Emilia_Romagna	Italia	frutta
pesche comuni	A01GM	Acrinathrin and its enantiomer	Dettagliante	Emilia_Romagna	Italia	frutta
Farina di frumento bianca	A003Y	Tetramethrin	Produttore	Emilia_Romagna	Italia	cereali
Pomodori	A0DMX	Chlorfenapyr	Dettagliante	Lazio	Italia	ortaggi
Melanzane	A00JD	Etofenprox	Dettagliante	Lazio	Italia	ortaggi
Fragole	A01EA	Formetanate: Sum of formetanate and its salts expressed as formetanate(hydrochloride)	Grossista	Lazio	Italia	frutta
Bietole	A00MX	Deltamethrin (cis-deltamethrin)	Dettagliante	Lazio	Italia	ortaggi
Frumento comune in grani	A001N	Chlorpyrifos	Dettagliante	Lazio	Italia	cereali
Pesche comuni biologiche	A01GM#F21.A07SE	Dimethoate	Dettagliante	Abruzzo	Italia	frutta
Carote	A00QH	Tolclofos-methyl	Dettagliante	Puglia	Italia	ortaggi
Arance	A0DZB	Omethoate	Dettagliante	Puglia	Italia	frutta
Arance	A0DZB	Dimethoate	Dettagliante	Puglia	Italia	frutta
Scarola	A00LE	Dimethoate	Dettagliante	Puglia	Italia	ortaggi
Scarola	A00LE	Omethoate	Dettagliante	Puglia	Italia	ortaggi
Prezzemolo	A00YE	Linuron	Dettagliante	Puglia	Italia	ortaggi
Prezzemolo	A00YE	Cymoxanil	Dettagliante	Puglia	Italia	ortaggi
Farina di frumento integrale	A004B	Pirimiphos-methyl	Dettagliante	Puglia	Italia	cereali

Alimento	Codice foodex 2	Parametro rilevato	Punto di campionamento	Regione/PA campionante	Nazione di origine	Categoria
Foglie di sedano-	A00XA	Linuron	Dettagliante	Puglia	Italia	ortaggi
Limoni	A01BY	Chlorpyrifos	Dettagliante	Puglia	Italia	frutta
Kiwi	A01JT	Phosmet (phosmet and phosmet oxon expressed as phosmet)	Dettagliante	Puglia	Italia	frutta
Prezzemolo	A00YE	Penconazole (sum of constituent isomers)	Dettagliante	Puglia	Italia	ortaggi
Peperoni dolci	A00JA	Formetanate hydrochloride	Dettagliante	Sicilia	Italia	ortaggi
Pomodori ciliegino_biologico	A00HY#F21.A07SE	Iprodione	Dettagliante	Sicilia	Italia	ortaggi
Peperoni Dolci	A00JA	Thiophanate-methyl	Dettagliante	Sicilia	Italia	ortaggi
Cachi	A01HQ	Buprofezin	Azienda agricola	Sicilia	Italia	frutta
Mandarini-	A01CD	Dimethoate	Dettagliante	Sicilia	Italia	frutta
Bietole	A00MX	Metaflumizone (sum of E- and Z- isomers)	Dettagliante	Sicilia	Italia	ortaggi
Pesche	A01GM	Etofenprox	Dettagliante	Sicilia	Italia	frutta
Ciliege (dolci)	A01GK	Dimethoate	Dettagliante	Sicilia	Italia	frutta
Mandarini-	A01CD	Omethoate	Dettagliante	Sicilia	Italia	frutta
Funghi coltivati	A00TP	Fenazaquin	Grossista	Sicilia	Italia	ortaggi
Carote	A00QH	Fenazaquin	Dettagliante	Sicilia	Italia	ortaggi
Ciliege (dolci)	A01GK	Omethoate	Dettagliante	Sicilia	Italia	frutta
Sedano	A00RY	Chlorpyrifos	Grossista	Sardegna	Italia	ortaggi

TABELLA 1 b.: Campioni risultati irregolari nel 2021 da campionamento all'importazione

Tab 1b parte 1 Irregolarità 2021

Alimento	Codice foodex 2	Residuo	Origine	Categoria
Piccola frutta varia con buccia non edibile	A01JS	Cypermethrin (Cypermethrin including other mixtures of constituent isomers (sum of isomers))	Viet Nam	frutta

Piccola frutta varia con buccia non edibile	A01JS	Propamocarb (Sum of propamocarb and its salt expressed as propamocarb)	Viet Nam	frutta
Peperoni-	A00JA	Phenthoate	Peru	ortaggi
Banane-	A01LC	Imazalil	Ecuador	frutta
Peperoni	A00JA	Chlorpyrifos	Egitto	ortaggi
Banane	A01LC	Imazalil	Ecuador	frutta
Peperoni	A00JA	Clothianidin	Peru	ortaggi
Peperoni	A00JA	Clothianidin	Egitto	ortaggi
Peperoni -	A00JA	Fipronil	Peru	ortaggi
Peperoni	A00JA	Flutolanil	Egitto	ortaggi
Peperoni -	A00JA	Oxamyl	Egitto	ortaggi
Peperoni -	A00JA	Dinotefuran	Peru	ortaggi
Melanzane	A00JD	Profenofos	Uganda	ortaggi
Okra	A00JF	Metrafenone	India	ortaggi
Okra	A00JF	Fluopyram	India	ortaggi
Arachidi	A015H	Propamocarb (Sum of propamocarb and its salt expressed as propamocarb)	Egitto	Altro
Arachidi	A015H	Propamocarb (Sum of propamocarb and its salt expressed as propamocarb)	Egitto	Altro
Peperoni	A00JA	Iprodione	Peru	ortaggi

Tab 1b parte 2 Irregolarità 2022

Residuo	**Alimento**		**Origine**
presence of thiophanate methyl, chlorpyrifos ethyl and propiconazole	Peperone piccante fresco	A00JB	Egitto
chlopyrifos , clothianidin, propiconazole , acetamiprid	Semi di cumino	A018E	India
Clothianidin, Imidacloprid, Thiametoxam	Semi di cumino	A018E	India
methyl chlorpyrifos	Pomodori ciliegino congelati semi secchi	A00HY#F28. A07KL$F28. A07KQ	Turchia
Clorpyrifos ethyl, Dimethoate, Omethoate	Guava fresca	A0CGD	Egitto
Chlorpyrifos	Riso	A001E	Pakistan

lambda-cyhalothrin and unauthorised substance tetramethrin	Tea	A04KK	Cina
Carbendazim, Thiophanate-methyl	Menta fusa	A00XZ	Marocco
Imidacloprid and tricyclazole	Riso	A001E	India
Chlorpyrifos	Limoni freschi	A01BY	Turchia
Chlorpyrifos ethyl e Dimethoate	Fagioli secchi	A012S	Madagascar
Chlorpyrifos and Buprofezin	Limoni secchi	A01BY#F28. A07KG	Turchia
Imazalil	Arance Fresche	A0DZB	Egitto
redidue pesticides	Litch fresco	A01JV	Cina
Triciclazolo e Thiamethoxam	Riso	A001E	India
Triciclazolo	Riso	A001E	Bangladesh
Chlorpyrifos-methyl	Pompelmo	A01CY	Turchia
Presence of ethylene oxide	Polvere di fieno greco	A018H#F03. A06JD	India
Unauthorised substance chlorpyrifos	Foglie di curry	A00XG	India
Unauthorised pesticide residue Chlorpyrifos	Riso	A001E	Pakistan

Tab 1c parte 2 Controlli accresciuti 2023

Origine	Alimento	Codici foodex 2	Residuo
Brasile	Arachidi con guscio Arachidi sgusciate Burro di arachidi Arachidi altrimenti preparate o conservate Panelli e altri residui solidi, anche macinati o agglomerati in forma di pellets, dell'estrazione dell'olio di arachide Farine e polveri di arachidi Pasta di arachidi (Alimenti e mangimi)	A015H; A015H#F28. A07LC; A015H#F28. A0C0R; A015H#F28. A0BZX A015H#F10. A06HR; A015H #F03.A06JD; A015H#F03.A06JF	tabella 4
Cina	Te anche aromatizzato (alimenti)	A04KK	tabella 4 e tolfenpyrad
Colombia	Granadilla e frutto della passione	A0DQY or A01KC	tabella 4
Egitto	Peperoni dolci e Peperoni del genere Capsicum diversi dai peperoni dolci (alimenti freschi, refrigerati o congelati))	A00JA /A00JB (le descrizione dei refrigerati o congelati prevedono l'aggiunta di altri facet)	tabella 4 **con particolare** attenzione a dicofol (somma degli isomeri p, p' e o, p'),

			folpet, procloraz (somma di proclo-raz e dei relativi metaboliti conte-nenti la frazione 2,4,6-triclorofe-nolo, espressa in procloraz), , tiofa-nato-metile **e con l'aggiunta** dinote-furan, e triforina
Egitto	Arance (Alimenti freschi o essiccati)	A0DZB (fresche) (le descrizione dei refrigerati o essicati prevedono l'ag-giunta di altri facet)	tabella 4
Israele	Basilico	A00VV	tabella 4
Israele	Menta	A00XZ	tabella 4
India	Gombi (alimenti freschi, refrigerati o congelati)	A00JF(le descrizione dei refrigerati o conge-lati prevedono l'aggiunta di altri facet)	tabella 4 **con particolare attenzione** a ossido di etilene (somma di ossido di etilene e 2-cloro-etanolo, espressa in ossido di etilene) e **con l'aggiunta** di diafentiuron
India	Frutti della moringa (alimenti freschi, refrigerati o congelati)	A016E(le descrizione dei refrigerati o conge-lati prevedono l'aggiunta di altri facet)	tabella 4
India	Riso	A001E	tabella 4
India	Fagiolo Asparago(alimenti-verdure freschi, refrigerati o congelati)	A00PF (o A0DKA) (le descrizione dei refrigerati o conge-lati prevedono l'aggiunta di altri facet)	tabella 4
India	Guaiava	A0CGD	tabella 4
Kenya	Fagioli (alimenti freschi o refrigerati)	A00PC or A011Z(le descrizione dei refrigerati o conge-lati prevedono l'aggiunta di altri facet)	tabella 4

Kenya	Peperoni del genere Capsicum diversi dai peperoni dolci (alimenti freschi, refrigerati o congelati))	A00JB(le descrizione dei refrigerati o congelati prevedono l'aggiunta di altri facet)	tabella 4
Corea del sud	Integratori alimentari contenenti prodotti botanici	A03SJ con aggiunta del facet botanico cha varia al variare della pianta	Residui di ossido di etilene (somma di ossido di etilene e 2-cloro-etanolo, espressa in ossido di etilene).
Sri Lanka	Gotu kola (Centella asiatica)	A0DGS	tabella 4
Sri Lanka	Mukunuwenna (Alternanthera sessilis)		tabella 4
Madagascar	Fagioli dall'occhio (Vigna unguiculata)	A0DKA	tabella 4
Malaysia	Frutta del jack (alimenti-freschi)	A01LR	tabella 4
Malaysia	Carrube- Semi di carrube, non sgusciati, né frantumati, né macinati-Mucillagini ed ispessenti di carrube o di semi di carrube, anche modificati	A01HY e codici correlati	Residui di ossido di etilene (somma di ossido di etilene e 2-cloro-etanolo, espressa in ossido di etilene).
Pakistan	Riso	A001E	tabella 4
Ruanda	Peperoni del genere Capsicum diversi dai peperoni dolci (alimenti freschi, refrigerati o congelati))	A00JB (le descrizione dei refrigerati o congelati prevedono l'aggiunta di altri facet)	tabella 4
Thailandia	Peperoni del genere Capsi-cum diversi dai peperoni dolci (alimenti freschi, re-frigerati o congelati))	A00JB(le descrizione dei refrigerati o congelati prevedono l'aggiunta di altri facet)	tabella 4 **con particolare attenzione** formetanato (somma di formetanato e relativi sali, espressa in (cloridrato di) formetanato), **e con l'aggiunta** di protiofos e triforina
Turchia	Limoni (alimenti freschi, re-frigerati o congelati)	A01BY(le descrizione dei refrigerati o congelati prevedono l'aggiunta di altri facet)	tabella 4

Turchia	Pompelmi	A01CY	tabella 4
Turchia	Melograno	A01LH	tabella 4 con particolare attenzione procloraz
Turchia	Peperoni dolci e Peperoni del genere Capsi-cum diversi dai peperoni dolci (alimenti freschi, re-frigerati o congelati)	A00JA /A00JB(le descrizione dei refrigerati o congelati prevedono l'aggiunta di altri facet)	tabella **4 con l'aggiunta di** diafentiuron, **e con particolare attenzione** al formetanato (somma di formetanato e relativi sali, espressa in (cloridrato di) formetanato) e metiltiofanato
Uganda	Peperoni del genere Capsi-cum diversi dai peperoni dolci (alimenti freschi, re-frigerati o congelati)	A00JB(le descrizione dei refrigerati o congelati prevedono l'aggiunta di altri facet)	tabella 4 con particolare attenzione a ossido di etilene e 2 cloroetanolo
Vietnam	Peperoni del genere Capsi-cum diversi dai peperoni dolci (alimenti freschi, re-frigerati o congelati)	A00JB(le descrizione dei refrigerati o congelati prevedono l'aggiunta di altri facet)	Tabella 4 con aggiunta di ditiocarbammati (ditiocarbammati espressi in CS2, comprendenti maneb, mancozeb, metiram, propineb, tiram e ziram), fentoato e quinalfos.
Cina	Gomma di xantano	Non presente il codice foodex 2	Residui di ossido di etilene (somma di ossido di etilene e 2-cloro-etanolo, espressa in ossido di etilene).
Repubblica Dominicana	Peperoni dolci e Peperoni del genere Capsicum diversi dai peperoni dolci (alimenti freschi, refrigerati o congelati)	A00JA /A00JB(le descrizione dei refrigerati o congelati prevedono l'aggiunta di altri facet)	Tabella 4 con particolare attenzione ad acefate
Repubblica Dominicana	Fagioli Asparago (alimenti freschi, refrigerati o congelati)	A00PF (o A0DKA) (le descrizione dei refrigerati o congelati prevedono	tabella 4 con aggiunta di amitraz (amitraz e i metaboliti contenenti la frazione 2,4-

		l'aggiunta di altri facet)	dimetilanilina, espressi in amitraz), diafentiuron, **e con particolare attenzione** a dicofol (somma degli isomeri p, p' e o, p') ditiocarbammati (ditiocarbammati espressi in CS2, comprendenti maneb, mancozeb, metiram, propineb, tiram e ziram)
Repubblica Dominicana	melanzane	A00JD	tabella 4
India	Foglie di curry (alimenti freschi, refrigerati o congelati)	A00XG(le descrizione dei refrigerati o congelati prevedono l'aggiunta di altri facet)	tabella 4 e in particolare acefato
India	Peperoni del genere Capsi-cum diversi dai peperoni dolci (alimenti freschi, re-frigerati o congelati)	A00JB(le descrizione dei refrigerati o congelati prevedono l'aggiunta di altri facet)	tabella 4 con particolare attenzione carbofuran
India	Semi di sesamo	A015K	Residui di ossido di etilene (somma di ossido di etilene e 2-cloro-etanolo, espressa in ossido di etilene)
India	Carrube- Semi di carrube, non sgusciati, né frantumati, né macinati- Mucillagini ed ispessenti di carrube o di semi di carrube, anche modificati	A01HY e codici correlati	Residui di ossido di etilene (somma di ossido di etilene e 2-cloro-etanolo, espressa in ossido di etilene)
India	Gomma di guar	Non presente nel catalogo excel	Residui di ossido di etilene (somma di ossido di etilene e 2-cloro-etanolo, espressa in ossido di etilene)
India	Miscele di additivi alimentari contenenti	A01HYcon i codici facet che	Residui di ossido di etilene (somma di ossido di etilene e 2-

	gomma di carrube o gomma di guar	identificano le altre merci	cloro-etanolo, espressa in ossido di etilene)
India	Pepe del genere Piper; pimenti del genere Capsicum o del genere Pimenta, essiccati, tritati o polverizzati (Alimenti — spezie essiccate)	A018Z	Residui di ossido di etilene (somma di ossido di etilene e 2-cloro-etanolo, espressa in ossido di etilene)
India	Vaniglia (Alimenti — spezie essiccate)	A019H	Residui di ossido di etilene (somma di ossido di etilene e 2-cloro-etanolo, espressa in ossido di etilene)
India	Cannella e fiori di cinnamomo (Alimenti — spezie essiccate	A019V (fiori non presenti)	Residui di ossido di etilene (somma di ossido di etilene e 2-cloro-etanolo, espressa in ossido di etilene)
India	Garofani (antofilli, chiodi e steli) (Alimenti — spezie essiccate)	A01AL (chiodi)	Residui di ossido di etilene (somma di ossido di etilene e 2-cloro-etanolo, espressa in ossido di etilene)
India	Noci moscate, macis, amomi e cardamomi (Alimenti — spezie essiccate)	A018J (noce moscata) A01AV(macis) A018V (cardamomo)	Residui di ossido di etilene (somma di ossido di etilene e 2-cloro-etanolo, espressa in ossido di etilene)
India	Semi di anice, di badiana, di finocchio, di coriandolo, di cumino o di carvi; bacche di ginepro (Alimenti — spezie essiccate)	A017Y / A019R (semi di badiana o anice stellato)/ A018G/ A018D/ A018E /A018X	Residui di ossido di etilene (somma di ossido di etilene e 2-cloro-etanolo, espressa in ossido di etilene)
India	Zenzero, zafferano, curcuma, timo, foglie di alloro, curry ed altre spezie (Alimenti — spezie essiccate)	A18FY/ A01AR/ A01AC/ A00YQ (timo come erba fresca nel caso dell'essiccato usare il facet)/ A00VX/ A00XG (foglie di curry)	Residui di ossido di etilene (somma di ossido di etilene e 2-cloro-etanolo, espressa in ossido di etilene)

India	Preparazioni per salse e salse preparate; condimenti composti; farina di senape e senape preparata	Non definibile codice generico per le preparazioni di salse e i condimenti A015S;	Residui di ossido di etilene (somma di ossido di etilene e 2-cloro-etanolo, espressa in ossido di etilene)
India	Carbonato di calcio	A0BP5	Residui di ossido di etilene (somma di ossido di etilene e 2-cloro-etanolo, espressa in ossido di etilene)
India	Integratori alimentari contenenti prodotti botanici	A03SJ con aggiunta del facet botanico	Residui di ossido di etilene (somma di ossido di etilene e 2-cloro-etanolo, espressa in ossido di etilene)
Corea del Sud	Spaghetti orientali a cottura istantanea contenenti spezie/ condimenti o salse	A007R con l'aggiunta di codici descrittivi	Residui di ossido di etilene (somma di ossido di etilene e 2-cloro-etanolo, espressa in ossido di etilene)
Malaysia	Miscele di additivi alimentari contenenti gomma di carrube (Alimenti)	A01HYcon i facet che identificano la gomma	Residui di ossido di etilene (somma di ossido di etilene e 2-cloro-etanolo, espressa in ossido di etilene)
Pakistan	Peperoni del genere Capsicum (diversi dai peperoni dolci) (Alimenti — freschi, refrigerati o congelati)	A00JB(le descrizione dei refrigerati o congelati prevedono l'aggiunta di altri facet)	Tabella 4
Turchia	Foglie di vite	A00NB	Tabella 4 con particolare attenzione ai dithiocarbammati
Turchia	Mandarini, compresi i tangerini e i satsuma; clementine, wilkings e simili ibridi di agrumi (Alimenti — freschi o essiccati)	A01CB(le descrizione dei refrigerati o congelati prevedono l'aggiunta di altri facet)	Tabella 4
Turchia	Arance (Alimenti — freschi o essiccati)	A0DZB(le descrizione dei refrigerati o	Tabella 4

		congelati prevedono l'aggiunta di altri facet)	
Turchia	Miscele di additivi alimentari contenenti gomma di carrube (Alimenti)	A01HYcon i facet che identificano la gomma	Residui di ossido di etilene (somma di ossido di etilene e 2-cloro-etanolo, espressa in ossido di etilene)
Turchia	Carrube- Semi di carrube, non sgusciati, né frantuma-ti, né macinati- Mucillagini ed ispessenti di carrube o di semi di carrube, anche mo-dificati	A01HY e codici correlati	Residui di ossido di etilene (somma di ossido di etilene e 2-cloro-etanolo, espressa in ossido di etilene)
USA	Estratto di vaniglia (Alimenti)	A019H con facet dell'estratto	Residui di ossido di etilene (somma di ossido di etilene e 2-cloro-etanolo, espressa in ossido di etilene)
Vietnam	Gombi (Okra) (Alimenti — freschi, refrigerati o congelati)	A00JF(le descrizione dei refrigerati o congelati prevedono l'aggiunta di altri facet)	Tabella 4 con particolare attenzione ai dithiocarbammati
Vietnam	Pitahaya (frutto del drago) (Alimenti — freschi o refrigerati)	A01KD(le descrizione dei refrigerati o congelati prevedono l'aggiunta di altri facet)	Tabella 4 con particolare attenzione ai dithiocarbammati
Vietnam	Spaghetti orientali a cottura istantanea contenenti spezie/ condimenti o salse (Alimenti)	A007R con l'aggiunta di codici descrittivi	Residui di ossido di etilene (somma di ossido di etilene e 2-cloro-etanolo, espressa in ossido di etilene)

Tabella 2a: Campionamenti complessivi di cui al decreto del 23 dicembre 1992

	Frutta	Ortaggi	Cereali	Olio	Vino	carni	latte e derivati	pesci	uova
Abruzzo	**76**	**81**	**39**	**10**	**45**	**21**	**13**	**10**	**10**
Basilicata	**30**	**31**	**57**	**5**	**10**	**17**	**10**	**10**	**5**
Bolzano (P.A.)	**71**	**10**	**5**	**5**	**10**	**12**	**12**	**5**	**5**
Calabria	**123**	**76**	**18**	**24**	**13**	**26**	**20**	**10**	**10**
Campania	**181**	**258**	**70**	**10**	**27**	**45**	**50**	**10**	**10**
Emilia Romagna	**247**	**218**	**184**	**10**	**67**	**119**	**62**	**10**	**11**
Friuli Venezia Giulia	**32**	**18**	**12**	**10**	**15**	**16**	**13**	**10**	**5**
Lazio	**125**	**160**	**87**	**10**	**38**	**53**	**45**	**10**	**10**
Liguria	**23**	**30**	**14**	**10**	**10**	**11**	**16**	**10**	**10**
Lombardia	**123**	**139**	**131**	**15**	**26**	**210**	**118**	**10**	**12**
Marche	**46**	**53**	**90**	**10**	**24**	**22**	**14**	**10**	**10**
Molise	**12**	**10**	**33**	**5**	**10**	**12**	**10**	**10**	**5**
Piemonte	**116**	**87**	**161**	**10**	**39**	**96**	**61**	**10**	**10**
Puglia	**257**	**356**	**133**	**31**	**96**	**31**	**31**	**12**	**10**
Sardegna	**43**	**46**	**30**	**10**	**16**	**84**	**22**	**10**	**10**
Sicilia	**477**	**209**	**123**	**12**	**109**	**60**	**47**	**10**	**10**
Toscana	**90**	**71**	**89**	**15**	**38**	**43**	**27**	**10**	**10**
Trento (P.A.)	**47**	**10**	**5**	**5**	**13**	**10**	**10**	**5**	**5**
Umbria	**19**	**18**	**58**	**10**	**12**	**25**	**10**	**5**	**10**
Valle d'Aosta	**10**	**5**	**5**	**5**	**10**	**10**	**10**	**5**	**5**
Veneto	**213**	**123**	**62**	**15**	**84**	**104**	**53**	**10**	**12**
	2361	**2009**	**1406**	**237**	**712**	**1027**	**654**	**192**	**185**

Tabella 2b : Tabella campioni solo piano nazionale (progType K005A)

	Frutta	Ortaggi	Cereali	Olio	Vino	carni	latte e de-rivati	pesci	uova
Abruzzo	70	49	33	10	45	13	13	10	10
Basilicata	20	17	51	5	10	9	10	10	5
Bolzano (P.A.)	65	0	1	5	10	8	12	5	5
Calabria	105	48	1	24	13	18	20	10	10
Campania	167	229	66	10	27	37	50	10	10
Emilia Romagna	224	182	168	10	67	111	62	10	11
Friuli Venezia Giulia	26	8	8	10	15	8	13	10	5
Lazio	107	138	81	10	38	45	45	10	10
Liguria	17	20	10	10	10	3	16	10	10
Lombardia	113	124	111	15	26	202	118	10	12
Marche	40	42	86	10	24	14	14	10	10
Molise	6	0	29	5	10	8	10	10	5
Piemonte	103	65	139	10	39	88	61	10	10
Puglia	246	329	129	31	96	23	31	12	10
Sardegna	36	35	26	10	16	76	22	10	10
Sicilia	447	191	119	12	109	52	47	10	10
Toscana	84	60	85	15	38	35	27	10	10
Trento (P.A.)	41	0	1	5	13	6	10	5	5
Umbria	13	8	53	10	12	17	10	5	10
Valle d'Aosta	4	0	1	5	10	6	10	5	5
Veneto	202	94	58	15	84	96	53	10	12

TABELLA 2c: Ripartizione dei campioni di origine vegetale del Piano coordinato dell'Unione Europea tra le Regioni/Province Autonome (progType=K018A) *

Regione/Alimento	Arance(**)	Pere(**)	Kiwi(**)	Cavolfiori(**)	Cipolle(**)	Carote(**)	Patate(**)	Fagioli secchi(**)	Chicchi di segale(**)	Riso bruno(**)	Formule per lattanti e formule di proseguimento(**)
Abruzzo	2	2	2	7	2	12	8	3	4	2	4
Basilicata	4	3	3	6	2	2	2	2	4	2	2
Bolzano	2	2	2	2	2	2	2	2	2	2	2
Calabria	10	2	6	7	5	2	8	6	15	2	4
Campania	2	5	7	7	6	2	8	6	2	2	4
Emilia Romagna	2	15	6	2	10	10	8	6	14	2	4
Friuli Venezia Giulia	2	2	2	2	2	2	2	2	2	2	4
Lazio	2	2	14	5	2	9	4	2	4	2	4
Liguria	2	2	2	2	2	2	2	2	2	2	4
Lombardia	2	6	2	2	3	2	2	6	3	17	4
Marche	2	2	2	3	2	2	2	2	2	2	4
Molise	2	2	2	2	2	2	2	2	2	2	2
Piemonte	2	5	6	2	5	2	3	10	2	20	4
Puglia	6	3	2	7	5	6	4	5	2	2	4
Sardegna	3	2	2	3	2	2	2	2	2	2	4
Sicilia	20	8	2	6	6	2	2	2	2	2	4
Toscana	2	2	2	2	2	2	2	3	2	2	4
Trento	2	2	2	2	2	2	2	2	2	2	2
Umbria	2	2	2	2	2	2	2	2	3	2	4
Valle d'aosta	2	2	2	1	1	1	1	1	2	2	2
Veneto	2	4	5	3	6	6	8	6	2	2	4
Totale	75	75	75	76	75	75	77	75	75	75	74

*La ripartizione dei campioni tra le Regioni/Province Autonome è stata effettuata tenendo in considerazione i dati delle produzioni agricole Istat produzione raccolta 2021 e per il riso tenedo in considerazione la media del 2018-2019-2020 della produzione raccolta e, tenendo in considerazione il minimale previsto per ogni tipologia di alimento dal regolamento UE 741/2022 e smi e le osservazioni delle Regioni/Province Autonome.

**I codici foodex2 sono riportati nella tabella 11

TABELLA 3:Ripartizione dei campioni di origine animale del Piano coordinato dell'Unione Europea tra le Regioni/Province Autonome

Regione	Grasso di pollame	Fegato di bovino
Piemonte	4	4
Valle d'Aosta*	2	2
Lombardia	4	4
Liguria	4	4
Bolzano**	2	2
Trento**	2	2
Veneto	4	4
Friuli-Venezia Giulia	4	4
Emilia-Romagna	4	4
Toscana	4	4
Umbria	4	4
Marche	4	4
Lazio	4	4
Abruzzo	4	4
Molise*	2	2
Campania	4	4
Puglia	4	4
Basilicata	4	4
Calabria	4	4
Sicilia	4	4
Sardegna	4	4

* La ripartizione per tali Regioni/Province Autonome è stata effettuata tenendo in considerazioni le osservazioni degli scorsi anni dall'Assessorato alla sanità della Regione Valle d'Aosta e della Regione Molise

**La ripartizione per tali Province è stata effettuata tenendo in considerazioni che è stato attribuito un numero totale di 4 campioni alla Regione Trentino Alto Adige

TABELLA 4:Ricerca di analiti prevista dal Piano coordinato dell'Unione Europea per gli alimenti di origine vegetale

	Osservazioni
2,4-D	Da analizzare nel 2023 solo su arance, cavolfiori, riso bruno, fagioli secchi
2-Phenylphenol	
Abamectin	
Aclonifen	Da analizzare nel 2023 su carote
Acephate	
Acetamiprid	
Acrinathrin	
Aldicarb	
Aldrin and dieldrin	
Ametoctradin	
Azinphos-methyl	
Azoxystrobin	
Bifenthrin	
Biphenyl	
Bitertanol	
Boscalid	

	Osservazioni
Bromide ion	Da analizzare nel 2023 su riso bruno
Bromopropylate	
Bupirimate	
Buprofezin	
Captan	
Carbaryl	
Carbendazim and benomyl	
Carbofuran	
Chlorantraniliprole	
Chlorfenapyr	
Chlormequat	Da analizzare nel 2023 su carote, pere, segale e riso bruno
Chlorothalonil	
Chlorpropham	
Chlorpyrifos	
Chlorpyrifos-methyl	
Clofentezine	
Clothianidin	

	Osservazioni
Cyantraniliprole	
Cyazofamid	
Cyflufenamid	
Cyfluthrin	
Cymoxanil	
Cypermethrin	
Cyproconazole	
Cyprodinil	
Cyromazine	Da analizzare nel 2023 su patate cipolle e carote
Deltamethrin	
Diazinon	
Dichlorvos	
Dicloran	
Dicofol	
Diethofencarb	
Difenoconazole	
Diflubenzuron	
Dimethoate	

	Osservazioni
Dimethomorph	
Diniconazole	
Diphenylamine	
Dithianon	Da analizzare nel 2023 su pere e riso bruno
Dithiocarbamates	Da analizzare in e su tutti i prodotti elencati, eccetto cavoli broccoli, cavolfiori, cavoli cappucci, olio d'oliva, vino e cipolle.
Dodine	
Emamectin benzoate B1a, espresso come emamectin	
Endosulfan	
Epoxiconazole	
Ethephon	Da analizzare nel 2023 su arance e pere
Ethion	
Ethirimol	
Etofenprox	
Etoxazole	
Ossido di etilene	Da analizzare nel 2023 solo in e su fagioli secchi, segale e riso

	Osservazioni
Famoxadone	
Fenamidone	
Fenamiphos	
Fenarimol	
Fenazaquin	
Fenbuconazole	
Fenbutatin oxide	Da analizzare nel 2023 solo in e su arance e pere
Fenhexamid	
Fenitrothion	
Fenoxycarb	
Fenpropathrin	
Fenpropidin	
Fenpropimorph	
Fenpirazamina	
Fenpyroximate	
Fenthion	
Fenvalerate	

	Osservazioni
Fipronil	
Flonicamid	
Fluazifop-P	Da analizzare nel 2023 solo in e su cavolfiori, fagioli secchi, patate e carote
Flubendiamide	
Fludioxonil	
Flufenoxuron	
Fluopicolide	
Fluopyram	
Fluquinconazole	
Flusilazole	
Flutriafol	
Fluxapyroxad	
Folpet	
Formetanate	
Fosetyl-Al	
Fosthiazate	
Glyphosate	

	Osservazioni
Gluphosinate - ammonio	
Alossifop incluso alossifop-P	Da analizzare nel 2023 solo in e su fagioli secchi
Hexaconazole	
Hexythiazox	
Imazalil	
Imidacloprid	
Indoxacarb	
Iprodione	
Iprovalicarb	
Isocarbophos	
Isoprothiolane	La sostanza è da analizzare in o su riso bruno
Kresoxim-methyl	
Lambda-cyhalothrin	
Linuron	
Lufenuron	
Malathion	
Idrazide maleica	Da analizzare nel 2023 solo in e su cipolle e patate

	Osservazioni
Mandipropamid	
Mepanipyrim	
Mepiquat	Da analizzare nel 2023 solo in e su pere, segale e riso bruno
Metaflumizone	
Metalaxyl and metalaxyl-M	
Methamidophos	
Methidathion	
Methiocarb	
Methomyl	
Methoxyfenozide	
Metrafenone	
Monocrotophos	
Myclobutanil	
Omethoate	
Oxadixyl	
Oxamyl	
Oxydemeton-methyl	

	Osservazioni
Paclobutrazole	
Parathion methyl	
Penconazole	
Pencycuron	
Pendimethalin	
Permethrin	
Phosmet	
Pimetrozine	Non è da analizzare nel 2023. Deve invece essere esaminato su melanzane, meloni e peperoni dolci nel 2024, e su cavolo a testa lattuga, fragola, spinaci e pomodori nel 2025
Pirimicarb	
Pirimiphos-methyl	
Prochloraz	
Procymidone	
Profenofos	
Propamocarb	Da analizzare nel 2023 solo in e su carote, cavolfiori, cipolle e patate
Propargite	
Propiconazole	

	Osservazioni
Propyzamide	
Proquinazid	
Prosulfocarb	
Protioconazolo	Da analizzare nel 2023 solo in e su carote, cipolle, segale e riso bruno.
Pimetrozine	**La sostanza non è da analizzare su nessun prodotto nel 2023**, è comunque preferibile nel caso si abbia il metodo di esaminarlo per gli alimenti previsti per il 2024 e 2025 che sono melanzane, meloni, peperoni dolci, cavoli cappucci, lattughe, fragole, spinaci e pomodori però con ragione piano nazionale
Pyraclostrobin	
Pyridaben	
Pyridalil	
Pyrimethanil	
Pyriproxyfen	
Quinoxyfen	
Spinosad	
Spinetoram	
Spirodiclofen	
Spiromesifen	
Spiroxamine	

	Osservazioni
Spirotetramat	
Sulfoxaflor	
Tau-Fluvalinate	
Tebuconazole	
Tebufenozide	
Tebufenpyrad	
Teflubenzuron	
Tefluthrin	
Terbuthylazine	
Tetraconazole	
Tetradifon	
Thiabendazole	
Thiacloprid	
Thiamethoxam	
Thiophanate-methyl	
Tolclofos-methyl	
Triadimenol	
Triadimefon	

	Osservazioni
Thiodicarb	
Triazophos	
Tricyclazole	Da analizzare nel 2023 su riso bruno
Trifloxystrobin	
Triflumuron	
Vinclozolin	

TABELLA 5: Ricerca di analiti previsti dal Piano coordinato dell'Unione Europea per gli alimenti di origine animale

	Osservazioni
Aldrin and dieldrin	
Bifenthrin	
Chlordane	
Chlorpyrifos	
Chlorpyrifos-methyl	
Cypermethrin	
DDT	
Deltamethrin	
Diazinon	
Endosulfan	
Famoxadone	
Fenvalerate	
Fipronil	
Glyphosate	
Gluphosinate-ammonio	
Heptachlor	

	Osservazioni
Hexachlorobenzene	
Hexachlorcyclohexan (HCH, Alpha-Isomer)	
Hexachlorcyclohexan (HCH, Beta-Isomer)	
Indoxacarb	Da analizzare nel 2025 solo nel e sul latte
Lindane	
Methoxychlor	
Parathion	
Pendimetalin	
Permethrin	
Pirimiphos-methyl	

TABELLA 6: Elenco dei laboratori del controllo ufficiale per l'analisi di residui di prodotti fitosanitari					
Laboratorio	Codice laboratorio	Categorie di matrici nello scopo del laboratorio (3)	Analiti e metodi di analisi adottati per la ricerca dei residui di prodotti fitosanitari (1)		
			Analiti analizzati con metodo multiresiduo accreditato	Analiti "SRM" (2) analizzati con metodi accreditati monoresiduo o multiresiduo	Analiti "SRM" (2) analizzati con metodi validati monoresiduo o multiresiduo
IZS ABRUZZO E MOLISE	I0700000	• Prodotti ortofrutticoli; • Cereali; • Prodotti di origine animale (AO); • Alimenti ad alto contenuto di grasso (non AO); • Miele; • Baby Food; • Spezie, té e simili.	Tutti gli analiti nello scopo del laboratorio non presenti nella colonna 5 e/o 6	2,4,5-T; 2,4-D; 2,4 DB; Bentazone;Bromoxynil; Dicamba; Diclorprop; Fluazifop; Flurossipir, Haloxyfop; Ioxynil; MCPA; MCPB; Mecoprop; Triclopyr; Propamocarb; Chlormequat; Cyromazine; Difenzoquat; Mepiquat; Trimethylsulfonium; Amitraz e metaboliti. Ethephon; Ethephon Hydroxy, Phosphonic acid; Chlorate, Perchlorate,Glyphosate, AMPA, N-acetyl AMPA N-acetyl Glyphosate Glufosinate ammonium; Fosethyl Aluminium Fipronil e metaboliti (sulfone, desulfinyl e sulfide) Fluralaner, Bromide ion,	Fenbutatin oxide; QAC (DDAC C10, BAC-C8, C10, C12, C14, C16);

				Nel latte: Glyphosate, AMPA, Ethephon Glufosinate ammonium, N-acetil AMPA e N-acetil glyphosate	
IZS LAZIO E TOSCANA	I0500000	• Prodotti ortofrutticoli; • Cereali; • Prodotti di origine animale (AO); • Alimenti ad alto contenuto di grasso (non AO);	Tutti gli analiti nello scopo del laboratorio non presenti nella colonna 5 e/o 6	Glyphosate, Amitraz, Fipronil e Fipronil sulfone (nei prodotti ortofrutticoli, nelle uova e nella carne)	Chlormequat; Mepiquat; DDAC (C-8, C-10, C-12, C-14) e BAC (C8, C10, C12, C14, C16); 2,4-D; MCPA; MCPP-P;

		• Miele.			Haloxyfop; Fluazifop; Dichlorprop; Nicotine
IZS LOMBARDIA E EMILIA	I0200000	• Prodotti ortofrutticoli; • Cereali; • Prodotti di origine animale (AO); • Alimenti ad alto contenuto di grasso (non AO); • Miele; • Spezie, té e simili.	Tutti gli analiti nello scopo del laboratorio non presenti nella colonna 5 e/o 6	3-Hydroxy-carbofuran; Amitraz; Carbofuran; Dichlorvos; Dicofol; Furathiocarb; Prochloraz; Propamocarb. QAC (DDAC C10, BAC-C8, C10, C12, C14, C16) Ethephon, Glyphosate, Glufosinate, Fosetyl Al, Captan – Folpet Ethylene Oxide e 2-Chloroethanol	

IZS DEL MEZZOGIORNO	IToscana0 000	• Prodotti ortofrutticoli; • Cereali; • Prodotti di origine animale (AO); • Alimenti ad alto contenuto di grasso (non AO).	Tutti gli analiti nello scopo del laboratorio		
IZS PIEMONTE - LIGURIA e VALLE D'AOSTA	I0100000	• Prodotti ortofrutticoli; • Cereali; • Prodotti di origine animale (AO); • Alimenti ad alto contenuto di grasso (non AO); • Miele; • Baby Food; • Spezie, té e simili.	Tutti gli analiti nello scopo del laboratorio o		

IZS DELLA PUGLIA E BASILICATA	I0800000	• Prodotti ortofrutticoli; • Cereali; • Prodotti di origine animale (AO); • Miele; • Baby Food.	Tutti gli analiti nello scopo del laboratorio		
IZS DELLA SARDEGNA	I0400000	• Prodotti ortofrutticoli; • Cereali; • Prodotti di origine animale (AO); • Alimenti ad alto contenuto di grasso (non AO); • Miele; • Baby Food; • Spezie, té e simili.	Tutti gli analiti nello scopo del laboratorio		

IZS DELLA SICILIA	I1000000	• Prodotti ortofrutticoli; • Cereali; • Prodotti di origine animale (AO); • Alimenti ad alto contenuto di grasso (non AO); • Miele; • Baby Food; • Spezie, té e simili.	Tutti gli analiti nello scopo del laboratorio non presenti nella colonna 5 e/o 6	Perchlorate e Glyphosate	
IZS UMBRIA E MARCHE	I0600000	• Prodotti di origine animale (AO); • Miele.	Tutti gli analiti nello scopo del laboratorio non presenti nella colonna 5 e/o 6	Fipronil e Fipronil sulfone nelle uova Glyfosate e Glufosinate ammonio (definizione complessa di residuo) in uova, tessuto adiposo e latte (in accreditamento gennaio 2022)	Dithiocarbamates (come CS_2) in alimenti di origine vegetale (analisi attualmente sospesa verrà riattivata nel 2022)
IZS DELLE VENEZIE	I0300000	• Prodotti di origine animale (AO); • Miele.	Tutti gli analiti nello scopo del laboratorio		

APPA BOL-ZANO	P0411010	• Prodotti ortofrutticoli; • Cereali; • Prodotti di origine animale (AO); • Alimenti ad alto contenuto di grasso (non AO); • Miele; • Baby Food; • Spezie, té e simili.	Tutti gli analiti nello scopo del laboratorio non presenti nella colonna 5 e/o 6	Dithiocarbamates (come CS_2)	Chlormequat; Mepiquat; Cyromazine; Ethephon; Bromide ion; Glyphosate; Fosetyl aluminium; Glufosinate ammonium, Haloxyfop (sum), Fluazifop (sum), 2,4 D (sum)
APPA TRENTO	P0421010	• Prodotti ortofrutticoli; • Cereali.	Tutti gli analiti nello scopo del laboratorio		
ARPA CAMPA-NIA	P1500400	• Prodotti ortofrutticoli; • Cereali.	Tutti gli analiti nello scopo del laboratorio		

ARPAE FERRARA	P0801090	• Prodotti ortofrutticoli; • Cereali; • Alimenti ad alto contenuto di grasso (non AO); • Baby Food; • Spezie, té e simili.	Tutti gli analiti nello scopo del laboratorio non presenti nella colonna 5 e/o 6	Abamectine; Dichlorvos; Pymetrozine; Chlorothalonil (matrici ad alto contenuto di acqua e basso contenuto di acido; basso contenuto di acqua e alto contenuto di amido). Chlorothalonil (per prodotti ad alto contenuto di acqua e alto contenuto di acido); Nicotine; QAC (DDAC C10, BAC-C8, C10, C12, C14, C16).	3-Hydroxy-carbofuran; Carbofuran; Amitraz; Dicofol. Dithiocarbamates (come CS_2)
ARPA FVG UDINE	P0601040	• Prodotti ortofrutticoli; • Cereali; • Alimenti ad alto contenuto di grasso (non AO); • Baby Food; • Spezie, té e simili.	Tutti gli analiti nello scopo del laboratorio non presenti nella colonna 5 e/o 6	In matrici vegetali ad alto contenuto di acqua e ad alto contenuto di acqua e acido: bromate, chlorate, perchlorate, ethephon, HEPA, glyphosate, fosetyl-Al, phosphonic acid, glufosinate, N-acetyl glufosinate, MPPA. In matrice vino: glyphosate, glufosinate-ammonium, AMPA, N-acetyl AMPA N-acetyl glyphosate, fosetyl-Al, phosphonic acid, MPPA	

ARPA LAZIO LATINA	P1201110	• Prodotti ortofrutticoli; • Cereali; • Alimenti ad alto contenuto di grasso (non AO); • Baby Food; • Spezie, té e simili.	Tutti gli analiti nello scopo del laboratorio		Glyphosate (da accreditare nel 2022 su matrici vegetali)
ARPAL LA SPEZIA	P0701050	• Prodotti ortofrutticoli; • Cereali; • Alimenti ad alto contenuto di grasso (non AO); • Miele; • Baby Food; • Spezie, té e simili.	Tutti gli analiti nello scopo del laboratorio		
ARPAM MACERATA	P1101090	• Prodotti ortofrutticoli; • Cereali; • Alimenti ad alto contenuto di grasso (non AO); • Baby Food.	Tutti gli analiti nello scopo del laboratorio		

ARPA PUGLIA BARI	P1601040	• Prodotti ortofrutticoli; • Cereali; • Alimenti ad alto contenuto di grasso (non AO); • Baby Food; • Spezie, té e simili.	Tutti gli analiti nello scopo del laboratorio non presenti nella colonna 5 e/o 6	Chlormequat, Chlorotalonil, Folpet, Mepiquat, Glyphosate,	Composti analizzati ed in fase di validazione: Dithiocarbamates (come CS_2), Bromide ion, Carbofuran, Captan, Glufosinate, NAG, MPP
ARPA PUGLIA BARI	P1601040	• Prodotti ortofrutticoli; • Cereali; • Alimenti ad alto contenuto di grasso (non AO); • Baby Food; • Spezie, té e simili.	Tutti gli analiti nello scopo del laboratorio non presenti nella colonna 5 e/o 6	Chlormequat, Chlorotalonil, Folpet, Mepiquat, Glyphosate,	Composti analizzati ed in fase di validazione: Dithiocarbamates (come CS_2), Bromide ion, Carbofuran, Captan, Glufosinate, NAG, MPP
ARPA VALLE D'AOSTA	P0201010	• Prodotti ortofrutticoli; • Cereali.	Tutti gli analiti nello scopo del laboratorio non presenti nella colonna 5 e/o 6		Dithiocarbamates (come CS_2)

ATS BERGAMO	030325	• Prodotti ortofrutticoli; • Cereali; • Alimenti ad alto contenuto di grasso (non AO).	Tutti gli analiti nello scopo del laboratorio		
ATS MILANO	030321	• Prodotti ortofrutticoli; • Cereali; • Alimenti ad alto contenuto di grasso (non AO); • Baby Food.	Tutti gli analiti nello scopo del laboratorio		
LABORATORIO DI SANITA PUBBLICA AZIENDA USL Toscana Centro	090201	• Prodotti ortofrutticoli; • Cereali; • Alimenti ad alto contenuto di grasso (non AO); • Baby Food; • Spezie, té e simili.	Tutti gli analiti nello scopo del laboratorio non presenti nella colonna 5 e/o 6	Glyphosate QAC (DDAC C10, BAC C10, C12, C14, C16)	

(1) Per il dettaglio degli analiti e delle matrici accreditate dal laboratorio, si rimanda alla consultazione della banca dati sul sito di ACCREDIA per la ricerca dei laboratori di prova accreditati: http://services.accredia.it/accredia_labsearch.jsp?ID_LINK=1734&area=310&dipartimento=L,S&desc=Laboratori

(2) Analiti "SRM". Analiti individuati dal Laboratorio Europeo di Riferimento come analizzabili con metodiche specifiche "monoresiduo".

TABELLA 7 Elenco dei laboratori del controllo ufficiale nel 2021, degli analiti trasmessi e degli analiti comuni a 18-24 laboratori

LABORATORIO	RESIDUI ESAMINATI E TRASMESSI PER IL 2021	ANALITI ESAMINATI DA 18 A 24 LABORATORI
ATS Bergamo	2,4-D; 2-Phenylphenol; Abamectin; Acephate; Acetamiprid; Acrinathrin ; Aldicarb; Aldrin and dieldrin; Ametoctradin; Azinphos-methyl; Azoxystrobin; Bifenthrin; Biphenyl; Bitertanol; Boscalid; Bromopropylate; Bupirimate; Buprofezin; Carbaryl; Carbendazim and benomyl; Carbofuran; Chlorantraniliprole; Chlorfenapyr; Chlorpropham; Chlorpyrifos; Chlorpyrifos-methyl; Sum of chlorpyrifos-methyl and desmethyl chlorpyrifos-methyl, expressed as chlorpyrifos-methyl; Clofentezine; Clofentezine (sum of all compounds containing the 2-chlorobenzoyl moiety expressed as clofentezine); Clothianidin; Cyazofamid; Cyflufenamid; Cyfluthrin; Cymoxanil; Cypermethrin; Cyproconazole;Cyprodinil;Cyromazine; Deltamethrin; Diazinon; Dichlorvos; Dicloran; Dicofol; Diethofencarb; Difenoconazole; Diflubenzuron; Dimethoate; Dimethomorph; Diniconazole; Diphenylamine; Dithianon; Dodine; Emamectin benzoate B1a, expressed as emamectin; Endosulfan; Epoxiconazole; Ethion; Ethirimol; Etofenprox; Etoxazole; Famoxadone; Fenamidone; Fenamiphos; Fenarimol; Fenazaquin; Fenbuconazole; Fenbutatin oxide; Fenhexamid; Fenitrothion; Fenoxycarb; Fenpropathrin; Fenpropidin; Fenpropimorph; Fenpyrazamine; Fenpyroximate; Fenthion; Fenvalerate; Fipronil; Flonicamid, Flubendiamide; Fludioxonil; Flufenoxuron; Fluopicolide; Fluopyram; Fluquinconazole; Flusilazole; Flutriafol; Fluxapyroxad; Folpet; Formetanate; Fosthiazate; Haloxyfop including haloxyfop-P; Hexaconazole; Hexythiazox; Imidacloprid; Indoxacarb ; Iprodione; Iprovalicarb; Isocarbophos; Isoprothiolane; Kresoxim-methyl; Lambda-cyhalothrin; Linuron; Lufenuron; Malathion; Mepanipyrim; Metaflumizone (sum of E- and Z- isomers); Metalaxyl and metalaxyl-M; Methamidophos; Methidathion; Methiocarb; Methomyl; Methoxyfenozide; Metrafenone; Monocrotophos; Omethoate; Oxadixyl; Oxamyl; Oxydemeton-methyl; Paclobutrazole; Parathion methyl; Penconazole; Pencycuron; Pendimethalin; Permethrin; Phosmet ; Pirimicarb; Pirimiphos-methyl; Prochloraz; Procimidone; Profenofos; Propamocarb; Propargite; Propiconazole; Propyzamide; Proquinazid; Prosulfocarb; Prothioconazole; Pymetrozine; Pyraclostrobin; Pyridaben; Pyridalyl; Pyrimethanil; Pyriproxyfen; Quinoxyfen; Spinetoram; Spinosad ; Spirodiclofen; Spiromesifen; Spirotetramat;	Bifenthrin (sum of isomers); Chlorpyrifos; Cypermethrin; Cypermethrin including other mixtures of constituent isomers (sum

	Spirotetramat; Spiroxamine; Tebuconazole; Tebufenozide; Tebufenpyrad; Teflubenzuron; Tefluthrin; Terbuthylazine; Tetraconazole; Tetradifon; Thiabendazole; Thiacloprid; Thiamethoxam; Thiodicarb; Thiophanate-methyl; Tolclofos-methyl;Triadimefon; Triadimenol; Triazophos; Tricyclazole; Trifloxystrobin; Triflumuron; Vinclozolin	of isomers)); Deltamethrin (cis-deltamethrin); Diazinon; Fenpropathrin; Permethrin (sum of isomers); Pirimiphos-methyl; Profenofos; Triazophos; Azoxystrobin; Boscalid; Carbaryl; Chlorpy
ATS MILANO	2-Phenylphenol (sum of 2-phenylphenol and its conjugates, expressed as 2-phenylphenol); AcephateAcetamipridAcrinathrin and its enantiomerAldicarb (sum of Aldicarb, its sulfoxide and its sulfone, expressed as Aldicarb)Aldicarb-SulfoneAldicarb-Sulfoxide; AldrinAldrin and Dieldrin (Aldrin and dieldrin combined expressed as dieldrin)AmetoctradinAmetrynAzinphos-ethylAzinphos-methylAzoxystrobinBifenthrin (sum of isomers)Bitertanol (sum of isomers)BoscalidBromopropylateBupirimateBuprofezinCadusafosCaptanCaptan (sum of captan and THPI, expressed as captan)CarbarylCarbendazim and benomyl (sum of benomyl and carbendazim expressed as carbendazim)Carbofuran (sum of carbofuran (including any carbofuran generated from carbosulfan, benfuracarb or furathiocarb) and 3-OH carbofuran expressed as carbofuran)Carbofuran, 3-hydroxyChlorantraniliprole (DPX E-2Y45)ChlorfenapyrChlorobenzilateChlorothalonilChlorprophamChlorpyrifosChlorpyrifos-methylClofentezineClofentezine (sum of all compounds containing the 2-chlorobenzoyl moiety expressed as clofentezine)ClothianidinCyazofamidCyflufenamid (sum of cyflufenamid (Z-isomer) and its E-isomer, expressed as cyflufenamid)Cyfluthrin (Cyfluthrin including other mixtures of constituent isomers (sum of isomers))CymoxanilCypermethrin (Cypermethrin including other mixtures of constituent isomers (sum of isomers))CyproconazoleCyprodinilCyromazineDeltamethrin (cis-deltamethrin)Demeton-O-sulfoxideDesmethyl PirimicarbDiazinonDichlofluanidDichlorvosDicloranDiethofencarbDifenoconazoleDiflubenzuronDimethoateDimethomorph (sum of isomers)Dimethylaminosulfotoluidide (DMST)Diniconazole (sum of isomers)DiphenylamineDodineEndosulfan (sum of alpha- and beta-isomers and endosulfan-sulphate expressed as endosulfan)Endosulfan, beta-EndosulfansulfateEPNEpoxiconazoleEthionEthirimolEtofenproxEtoxazoleFamoxadoneFenamidoneFenamiphos (sum of fenamiphos and its sulphoxide and sulphone expressed as fenamiphos)Fenamiphos-SulfonFenamiphos-SulfoxidFenarimolFenazaquinFenbuconazole (sum of constituent enantiomers)Fenbutatin oxideFenhexamidFenitrothionFenoxycarbFenpropathrinFenpropidin (sum of fenpropidin and its salts, expressed as fenpropidin)Fenpropimorph (sum of isomers)FenpyrazamineFenpyroximateFenthion (fenthion and its oxigen analogue, their sulfoxides and sulfone expressed as parent)Fenthion oxon sulfoneFenthion-OxonFenthion-OxonsulfoxideFenthion-SulfonFenthion-SulfoxideFenvalerate (any ratio of constituent isomers (RR, SS, RS & SR) including esfenvalerate)Fipronil (sum fipronil + sulfone metabolite (MB46136) expressed as fipronil)Flonicamid (sum of flonicamid, TFNA and TFNG expressed as flonicamid)FlucycloxuronFludioxonilFlufenoxuronFluopicolideFluopyramFluquinconazoleFlusilazoleFlutriafolFluvalinate (sum of isomers) resulting from the use of tau-fluvalinateFluxapyroxadFolpet (sum of folpet and phthalimide, expressed	

	as folpet)FonofosFormetanate: Sum of formetanate and its salts expressed as formetanate(hydrochloride) FosthiazateHexaconazoleHexythiazoxImazalil (any ratio of constituent isomers)ImidaclopridIndoxacarb (sum of indoxacarb and its R enantiomer)IprodioneIprovalicarbIsocarbophosIsoprothiolaneKresoxim-methylLambda-cyhalothrin (includes gamma-cyhalothrin) (sum of R,S and S,R isomers)LinuronLufenuron (any ratio of constituent isomers)MalaoxonMalathion (sum of malathion and malaoxon expressed as malathion)Mandipropamid (any ratio of constituent isomers)MepanipyrimMetalaxyl and metalaxyl-M (metalaxyl including other mixtures of constituent isomers including metalaxyl-M (sum of isomers)MethamidophosMethidathionMethiocarb (sum of methiocarb and methiocarb sulfoxide and sulfone, expressed as methiocarb)Methiocarb-SulfonMethiocarb-SulfoxidMethomylMethoxyfenozideMetrafenoneMetribuzinMonocrotophosMyclobutanil (sum of constituent isomers)NuarimolOmethoateOxadixylOxamylOxydemeton-methyl (sum of oxydemeton-methyl and demeton-S-methylsulfone expressed as oxydemeton-methyl)Paclobutrazol (sum of constituent isomers)Paraoxon-MethylParathionParathion-methyl (sum of Parathion-methyl and paraoxon-methyl expressed as Parathion-methyl)Penconazole (sum of constituent isomers)Pencycuron (sum of pencycuron and pencycuron-PB-amine, expressed as pencycuron)PendimethalinPermethrin (sum of isomers)PhenthoatePhosalonePhosmet (phosmet and phosmet oxon expressed as phosmet)Phosmet oxonPirimiphos-EthylPirimiphos-methylProchloraz (sum of prochloraz, BTS 44595 (M201-04) and BTS 44596 (M201-03), expressed as prochloraz)ProcymidoneProfenofosPromecarbPropamocarb (Sum of propamocarb and its salts, expressed as propamocarb)PropargitePropiconazole (sum of isomers)PropyzamideProquinazidProsulfocarbProthioconazole: prothioconazole-desthio (sum of isomers)ProthiofosPymetrozinePyraclostrobinPyridabenPyrimethanilPyriproxyfenQuinalphosQuinoxyfenSpinetoramSpinosad (spinosad, sum of spinosyn A and spinosyn D)SpirodiclofenSpiromesifenSpirotetramat (spirotetramat and its metabolite BYI08330-enol expressed as spirotetramat)Spirotetramat and its 4 metabolites BYI08330-enol, BYI08330-ketohydroxy, BYI08330-monohydroxy, and BYI08330 enol-glucoside, expressed as spirotetramatSpiroxamine (sum of isomers)Sum of chlorpyrifos-methyl and desmethyl chlorpyrifos-methylTebuconazoleTebufenozideTebufenpyradTeflubenzuronTefluthrinTerbuthylazineTetraconazoleTetradifonTetramethrinThiabendazoleThiaclopridThiamethoxamThiodicarbThiophanate-methylTolclofos-methylTolylfluanid (Sum of tolylfluanid and dimethylaminosulfotoluidide expressed as tolylfluanid)TriadimefonTriadimenol (any ratio of constituent isomers)TriazophosTricyclazoleTrifloxystrobinTriflumuronTrifluralinVinclozolinZoxamide	rifos-methyl; Cyprodinil; Kresoxim-methyl; Metalaxyl including other mixtures of constituent isomers including metalaxyl-M (sum of isomers); Methidathion; Penconazole (sum of constituent
LSP TOSCANA	AcephateAcetamipridAcrinathrin and its enantiomerAlachlorAldicarbAldicarb (sum of Aldicarb, its sulfoxide and its sulfone, expressed as Aldicarb)Aldicarb-SulfoneAldicarb-SulfoxideAllethrinAnilazineAtrazineAzinphos-ethylAzoxystrobinBenalaxyl including other mixtures of constituent isomers including benalaxyl-M (sum of isomers)BenzoximateBifenthrin (sum of isomers)Bitertanol (sum of	uent

	isomers)BoscalidBupirimateBuprofezinCadusafosCarbarylCarbendazim and benomyl (sum of benomyl and carbendazim expressed as carbendazim)CarbofuranCarbofuran (sum of carbofuran (including any carbofuran generated from carbosulfan, benfuracarb or furathiocarb) and 3-OH carbofuran expressed as carbofuran)ChlorfluazuronChlormequat (sum of chlormequat and its salts, expressed as chlormequat-chloride)ChlorpyrifosChlorpyrifos-methylClofentezineClofentezine (sum of all compounds containing the 2-chlorobenzoyl moiety expressed as clofentezine)ClothianidinCyazofamidCymoxanilCypermethrin (Cypermethrin including other mixtures of constituent isomers (sum of isomers))CyproconazoleCyprodinilDeltamethrin (cis-deltamethrin)DiazinonDichlofluanidDichlorvosDiclobutrazolDiethofencarbDifenoconazoleDiflubenzuronDimethoateDimethomorph (sum of isomers)Diniconazole (sum of isomers)DodineEPNEpoxiconazoleEthiofencarbEthionEthirimolEthoprophosEtofenproxEtoxazoleFamoxadoneFenamidoneFenarimolFenazaquinFenbuconazole (sum of constituent enantiomers)Fenbutatin oxideFenhexamidFenothiocarbFenoxycarbFenpropathrinFenpropidin (sum of fenpropidin and its salts, expressed as fenpropidin)Fenpropimorph (sum of isomers)FenpyroximateFenthionFenthion (fenthion and its oxigen analogue, their sulfoxides and sulfone expressed as parent)FipronilFipronil (sum fipronil + sulfone metabolite (MB46136) expressed as fipronil)Flucythrinate (flucythrinate including other mixtures of consitutent isomers (sum of isomers))FlufenoxuronFluquinconazoleFlusilazoleFlutriafolFonofosFosthiazateGlyphosateHeptenophosHexaconazoleHexazinoneHexythiazoxImazalil (any ratio of constituent isomers)ImidaclopridIndoxacarb (sum of indoxacarb and its R enantiomer)IprovalicarbIsofenphosIsoprothiolaneKresoxim-methylLambda-cyhalothrin (includes gamma-cyhalothrin) (sum of R,S and S,R isomers)LinuronLufenuron (any ratio of constituent isomers)MalaoxonMalathionMalathion (sum of malathion and malaoxon expressed as malathion)Mandipropamid (any ratio of constituent isomers)MepanipyrimMetalaxyl and metalaxyl-M (metalaxyl including other mixtures of constituent isomers including metalaxyl-M (sum of isomers)MethamidophosMethidathionMethiocarbMethiocarb (sum of methiocarb and methiocarb sulfoxide and sulfone, expressed as methiocarb)MethomylMethoxyfenozideMetolachlor and S-metolachlor (metolachlor including other mixtures of constituent isomers including S-metolachlor (sum of isomers)) MonocrotophosMyclobutanil (sum of constituent isomers)NuarimolOmethoateOxadiazonOxadixylOxamylOxydemeton-methylOxydemeton-methyl (sum of oxydemeton-methyl and demeton-S-methylsulfone expressed as oxydemeton-methyl)Paclobutrazol (sum of constituent isomers)Paraoxon-MethylParathionParathion-methyl (sum of Parathion-methyl and paraoxon-methyl expressed as Parathion-methyl)Penconazole (sum of constituent isomers)PencycuronPendimethalinPermethrin (sum of isomers)PhoratePhorate (sum of phorate, its oxygen analogue and their sulfones expressed as phorate)Phorate-SulfonPhosalonePhosphamidonPirimicarbPirimiphos-EthylPirimiphos-methylProfenofosPropamocarb (Sum of propamocarb and its salts, expressed as propamocarb)PropargitePropiconazole (sum of	isomers); Pendimethalin; Propiconazole (sum of isomers); Pyraclostrobin; Pyrimethanil; Tebuconazole; Terbuthylazine; Tolclofos-methyl; Trifloxystrobin; Bupirimate; Buprofezin; Cyproconazole; Difenoconazol

	isomers)PropoxurPropyzamidePymetrozinePyraclostrobinPyrazophosPyridabenPyridaphenthionPyrimethanilPyriproxyfenQuinalphosQuinoxyfenSpinosad (spinosad, sum of spinosyn A and spinosyn D)SpirodiclofenSpiroxamine (sum of isomers)Sum of chlorpyrifos-methyl and desmethyl chlorpyrifos-methylTebuconazoleTebufenozideTebufenpyradTeflubenzuronTerbuthylazineTetraconazoleTetramethrinThiabendazoleThiaclopridThiamethoxamThiodicarbThiophanate-methylTolclofos-methylTolylfluanidTolylfluanid (Sum of tolylfluanid and dimethylaminosulfotoluidide expressed as tolylfluanid)TriadimefonTriadimenol (any ratio of constituent isomers)TriazophosTrifloxystrobinTriflumuron	e; Dimethoate; Dimethomorph (sum of isomers); Etofenprox; Fenarimol; Fenazaquin; Fluquinconazole; Flutriafol; Iprovalicarb; Linuron; Pirimicarb; Pyridaben; Quinoxyfen; Tebufenpyrad;
IZS Piemonte e Liguria	2,4-Dimethylanilin2-phenylphenol2-Phenylphenol (sum of 2-phenylphenol and its conjugates, expressed as 2-phenylphenol)Abamectin (sum of avermectin B1a, avermectin B1b and delta-8,9 isomer of avermectin B1a, expressed as avermectin B1a)AcephateAcetamipridAcrinathrin and its enantiomerAldicarbAldicarb (sum of Aldicarb, its sulfoxide and its sulfone, expressed as Aldicarb)Aldicarb-SulfoneAldicarb-SulfoxideAldrinAldrin and Dieldrin (Aldrin and dieldrin combined expressed as dieldrin)AmetoctradinAmitrazAtrazineAzinphos-ethylAzinphos-methylAzoxystrobinBenalaxyl including other mixtures of constituent isomers including benalaxyl-M (sum of isomers)BenfuracarbBifenazate (sum of bifenazate plus bifenazate-diazene expressed as bifenazate)BifenoxBifenthrin (sum of isomers)BiphenylBitertanol (sum of isomers)BixafenBixafen (sum of bixafen and desmethyl-bixafen, expressed as bixafen)BoscalidBromophosBromophos-ethylBromopropylateBromuconazole (sum of diasteroisomers)BupirimateBuprofezinBYI08330 enol-glucoside (cis-3-(2,5-Dimethylphenyl)-8-methoxy-2-oxo-1-azaspiro [4.5]dec-3-en-4-yl ß-D-glucopyranoside)BYI08330-enol (cis-3-(2,5-dimethylphenyl)-4-hydroxy-8-methoxy-1-azaspiro[4.5]dec-3-en-2-one)BYI08330-ketohydroxy ((cis-3-(2,5-Dimethylphenyl)-3-hydroxy-8-methoxy-1-azaspiro[4.5]decane-2,4-dione)BYI08330-monohydroxy (cis-3-(2,5-Dimethylphenyl)-4-hydroxy-8-methoxy-1-azaspiro[4.5]decan-2-one)CadusafosCaptanCaptan (sum of captan and THPI, expressed as captan)CarbarylCarbendazim and benomyl (sum of benomyl and carbendazim expressed as carbendazim)Carbetamide (sum of carbetamide and its S isomer)CarbofuranCarbofuran (sum of carbofuran (including any carbofuran generated from carbosulfan, benfuracarb or furathiocarb) and 3-OH carbofuran expressed as carbofuran)Carbofuran, 3-hydroxyCarbosulfanCarboxin (carboxin plus its metabolites carboxin sulfoxide and oxycarboxin (carboxin sulfone), expressed as carboxin)Chlorantraniliprole (DPX E-2Y45)Chlordane (sum of cis- and trans-chlordane)Chlordane (sum of cis- and trans-isomers and oxychlordane expressed as chlordane)ChlorfenapyrChlorfensonChlorfenvinphosChlorfluazuronChlorobenzilateChlorothalonilChlorprophamChlorpropham and 3-chloro-4-hydroxyaniline conjugates, expressed as chlorprophamChlorpyrifosChlorpyrifos-methylChlorthiophosClofentezineClofentezine (sum of all compounds containing the 2-chlorobenzoyl moiety expressed as clofentezine)ClomazoneClothianidinCoumaphosCyazofamidCyflufenamid (sum of cyflufenamid (Z-isomer) and its E-isomer, expressed as cyflufenamid)Cyfluthrin (Cyfluthrin including other mixtures of constituent isomers (sum of isomers))CymoxanilCypermethrin (Cypermethrin including other mixtures of constituent isomers (sum of	

	isomers))CyproconazoleCyprodinilCyprodinil (sum of cyprodinil and CGA 304075 (free and conjugated), expressed as cyprodinil)Cyprodinil (sum of cyprodinil and CGA 304075 (free), expressed as cyprodinil)CyromazineDDD, o,p-DDD, p,p-DDE, o,p-DDE, p,p-DDT (sum of p,p'-DDT, o,p'-DDT, p-p'-DDE and p,p'-TDE (DDD) expressed as DDT)DDT, o,p-DDT, p,p-Deltamethrin (cis-deltamethrin)Demeton-S-MethylsulfoneDesmediphamDesmethyl PirimicarbDiazinonDichlobenilDichlofluanidDichloroaniline, 3,5-Dichlorobenzamide, 2,6-Dichlorobenzophenone, 4,4`-DichlorvosDiclobutrazolDicloranDicofol (sum of p, p' and o,p' isomers)DicrotophosDieldrinDiethofencarbDiethyl-m-toluamid, N,N-DifenoconazoleDiflubenzuronDiflubenzuron (sum of Diflubenzuron and 4-chlorophenylurea expressed as Diflubenzuron)DiflufenicanDimethoate Dimethomorph (sum of isomers)Dimethylaminosulfotoluidide (DMST)Dimethylphenylformamide, 2,4-Dimethylphenyl-N-methylformamidine, N-2,4-DimetilanDimoxystrobinDiniconazole (sum of isomers)DiphenylamineDisulfotonDisulfoton (sum of disulfoton, disulfoton sulfoxide and disulfoton sulfone expressed as disulfoton)Disulfoton-SulfonDisulfoton-SulfoxidDodineEmamectin benzoate B1a, expressed as emamectinEndosulfan (sum of alpha- and beta-isomers and endosulfan-sulphate expressed as endosulfan)Endosulfan, alpha-Endosulfan, beta-EndosulfansulfateEndrinEPNEpoxiconazoleEthionEthirimolEthoprophosEtofenproxEtoxazoleEtrimfosFamoxadoneFamphurFenamidoneFenamiphosFenamiphos (sum of fenamiphos and its sulphoxide and sulphone expressed as fenamiphos)Fenamiphos-SulfonFenamiphos-SulfoxidFenarimolFenazaquinFenbuconazole (sum of constituent enantiomers)FenchlorphosFenchlorphos (sum of fenchlorphos and fenchlorphos oxon expressed as fenchlorphos)Fenchlorphos-oxonFenhexamidFenitrothionFenoxycarbFenpropathrinFenpropidin (sum of fenpropidin and its salts, expressed as fenpropidin)Fenpropimorph (sum of isomers)FenpyrazamineFenpyroximateFensulfothionFenthionFenthion (fenthion and its oxigen analogue, their sulfoxides and sulfone expressed as parent)Fenthion oxon sulfoneFenthion-OxonFenthion-OxonsulfoxideFenthion-SulfonFenthion-SulfoxideFenvalerate (any ratio of constituent isomers (RR, SS, RS & SR) including esfenvalerate)Fenvalerate (sum of fenvalerate (any ratio of constituent isomers including esfenvalerate) and CPIA (chlorophenyl isovaleric acid), expressed as fenvalerate)FipronilFipronil (sum fipronil + sulfone metabolite (MB46136) expressed as fipronil)Fipronil-SulfoneFlonicamid (sum of flonicamid, TFNA and TFNG expressed as flonicamid)FlubendiamideFlucythrinate (flucythrinate including other mixtures of consitutent isomers (sum of isomers))FludioxonilFludioxonil (sum of fludioxonil and its metabolites oxidized to metabolite 2,2-difluoro-benzo[1,3]dioxole-4 carboxylic acid expressed as fludioxonil)FlufenacetFlufenoxuronFlumethrinFluopicolideFluopyramFluoxastrobin (sum of fluoxastrobin and its Z-isomer)FluquinconazoleFlusilazoleFlutolanilFlutriafolFluvalinate (sum of isomers) resulting from the use of tau-fluvalinateFluxapyroxadFolpetFolpet (sum of folpet and phthalimide, expressed as folpet)FonofosFosthiazateHeptachlorHeptachlor (sum of heptachlor and heptachlor epoxide expressed as heptachlor)Heptachlor epoxideHeptenophosHexachlorobenzeneHexachlorocyclohexane (HCH), alpha-	Tetraconazole; Triadimefon; Acrinathrin and its enantiomer; Bromopropylate; Chlorpropham; Endosulfan (sum of alpha- and beta-isomers and endosulfan-sulphate expressed as endosulfan); Ethion; Fenhex

	isomerHexachlorocyclohexane (HCH), beta-isomerHexaconazoleHexythiazoxImazalil (any ratio of constituent isomers)ImidaclopridIndoxacarb (sum of indoxacarb and its R enantiomer)IprodioneIprovalicarbIsocarbophosIsodrinIsofenphosIsofenphos-methylIsoprocarbIsoprothiolaneIsoproturonIsopyrazamIsoxaflutoleKresoxim-methylLambda-cyhalothrin (includes gamma-cyhalothrin) (sum of R,S and S,R isomers)Lindane (Gamma-isomer of hexachlorocyclohexane (HCH))Linuron Lufenuron (any ratio of constituent isomers)MalaoxonMalathionMalathion (sum of malathion and malaoxon expressed as malathion)Mandipropamid (any ratio of constituent isomers)MepanipyrimMetaflumizone (sum of E- and Z-isomers)Metalaxyl and metalaxyl-M (metalaxyl including other mixtures of constituent isomers including metalaxyl-M (sum of isomers)Metconazole (sum of isomers)MethacrifosMethamidophosMethidathionMethiocarbMethiocarb (sum of methiocarb and methiocarb sulfoxide and sulfone, expressed as methiocarb)Methiocarb-SulfonMethiocarb-SulfoxidMethomylMethoxychlorMethoxyfenozideMetobromuronMetolachlor and S-metolachlor (metolachlor including other mixtures of constituent isomers including S-metolachlor (sum of isomers))MetrafenoneMetribuzinMevinphos (sum of E- and Z-isomers)MirexMonocrotophosMyclobutanil (sum of constituent isomers)NitenpyramNitrofenNovaluronOmethoateOxadiargylOxadiazonOxadixylOxamylOxychlordaneOxydemeton-methylOxydemeton-methyl (sum of oxydemeton-methyl and demeton-S-methylsulfone expressed as oxydemeton-methyl)OxyfluorfenPaclobutrazol (sum of constituent isomers)Paraoxon-MethylParathionParathion-methylParathion-methyl (sum of Parathion-methyl and paraoxon-methyl expressed as Parathion-methyl)Penconazole (sum of constituent isomers)PencycuronPencycuron (sum of pencycuron and pencycuron-PB-amine, expressed as pencycuron)PendimethalinPenflufen (sum of isomers)PenthiopyradPermethrin (sum of isomers)PhenthoatePhorate (sum of phorate, its oxygen analogue and their sulfones expressed as phorate)PhosalonePhosmetPhosmet (phosmet and phosmet oxon expressed as phosmet)Phosmet oxonPhosphamidonPhoximPhthalimidePicolinafenPiperonyl ButoxidePirimicarbPirimiphos-EthylPirimiphos-methylProchloraz (sum of prochloraz, BTS 44595 (M201-04) and BTS 44596 (M201-03), expressed as prochloraz)ProcymidoneProfenofosPropamocarb (Sum of propamocarb and its salts, expressed as propamocarb)PropargitePropiconazole (sum of isomers)PropoxurPropyzamideProquinazidProsulfocarbProthioconazole: prothioconazole-desthio (sum of isomers)ProthiofosPymetrozinePyraclostrobinPyrazophosPyrethrinsPyridabenPyridalylPyrifenoxPyrimethanilPyriofenone PyriproxyfenPyroxsulamQuinalphosQuinoclamineQuinoxyfenQuintozeneQuintozene (sum of quintozene and pentachloro-aniline expressed as quintozene)Resmethrin (resmethrin including other mixtures of consituent isomers (sum of isomers))RotenoneSimazineSpinetoramSpinosad (spinosad, sum of spinosyn A and spinosyn D)Spinosyn ASpinosyn DSpirodiclofenSpiromesifenSpirotetramatSpirotetramat (spirotetramat and its metabolite BYI08330-enol expressed as spirotetramat)Spirotetramat and its 4 metabolites BYI08330-enol, BYI08330-ketohydroxy, BYI08330-monohydroxy, and BYI08330 enol-glucoside, expressed as spirotetramatSpiroxamine (sum of isomers)SulfotepSulfoxaflor	amid; Fenoxycarb; Flusilazole; Hexaconazole; Indoxacarb (sum of indoxacarb and its R enantiomer); Iprodione; Mepanipyrim; Omethoate; Oxadixyl; Paclobutrazol (sum of constituent isomers); Procymidone;

	(sum of isomers)Sum of boscalid and its hydroxy metabolite 2-chloro-N-(4′-chloro-5-hydroxybiphenyl-2-yl)nicotinamide (free and conjugated) expressed as boscalid, Sum of boscalid and its hydroxy metabolite 2-chloro-N-(4′-chloro-5-hydroxybiphenyl-2-yl)nicotinamide (free and conjugated) expressed as boscalidSum of chlorpyrifos-methyl and desmethyl chlorpyrifos-methylSum of iprodione and all metabolites containing the 3,5-dichloroaniline moiety expressed as iprodioneSum of metalaxyl (sum of isomers) and its metabolites containing the 2,6-dimethylaniline moiety, expressed as metalaxylTebuconazoleTebufenozideTebufenpyradTecnazeneTeflubenzuronTefluthrinTerbufosTerbuthylazineTetrachlorvinphosTetraconazoleTetradifonTetramethrinThiabendazoleThiaclopridThiamethoxamThiodicarbThionazinThiophanate-methylTHPITolclofos-methylTolylfluanidTolylfluanid (Sum of tolylfluanid and dimethylaminosulfotoluidide expressed as tolylfluanid)TriadimefonTriadimenol (any ratio of constituent isomers)Tri-allateTriazophosTrichlorfonTricyclazoleTrifloxystrobinTriflumuronTrifluralinTriticonazoleTritosulfuronVamidothionVinclozolinZoxamide	Propargite; Pyriproxyfen; Spiroxamine (sum of isomers); Thiabendazole; Acephate; Acetamiprid; Aldrin and Dieldrin (Aldrin and dieldrin combined expressed as dieldrin); Azinphos-methyl;
IZS Lombardia ed Emilia Romagna	2-phenylphenolAcephateAcetamipridAcrinathrin and its enantiomerAldicarbAldicarb (sum of Aldicarb, its sulfoxide and its sulfone, expressed as Aldicarb)Aldicarb-SulfoneAldicarb-SulfoxideAldrinAldrin and Dieldrin (Aldrin and dieldrin combined expressed as dieldrin)AmitrazAmitraz (amitraz including the metabolites containing the 2,4 -dimethylaniline moiety expressed as amitraz)AMPAAMPA-N-acetylAzinphos-ethylAzinphos-methylAzoxystrobinBifenthrin (sum of isomers)BiphenylBitertanol (sum of isomers)BixafenBoscalidBromophosBromophos-ethylBromopropylateBromuconazole (sum of diasteroisomers)BupirimateBuprofezinCadusafosCaptanCaptan (sum of captan and THPI, expressed as captan)CarbarylCarbendazimCarbendazim and benomyl (sum of benomyl and carbendazim expressed as carbendazim)CarbofuranCarbofuran (sum of carbofuran (including any carbofuran generated from carbosulfan, benfuracarb or furathiocarb) and 3-OH carbofuran expressed as carbofuran)Carbofuran, 3-hydroxyChlorantraniliprole (DPX E-2Y45)Chlordane (sum of cis- and trans-chlordane)Chlordane (sum of cis- and trans-isomers and oxychlordane expressed as chlordane)Chlorethanol, 2-ChlorfenapyrChlorfenvinphosChlorobenzilateChlorprophamChlorpyrifosChlorpyrifos-methylChlorthiophosClofentezineClothianidinCoumaphosCyazofamidCyfluthrin (Cyfluthrin including other mixtures of constituent isomers (sum of isomers))Cyhalofop-butylCyhalothrinCymoxanilCypermethrin (Cypermethrin including other mixtures of constituent isomers (sum of isomers))CyproconazoleCyprodinilDDD, o,p-DDD, p,p-DDE, o,p-DDE, p,p-DDT (sum of p,p'-DDT, o,p'-DDT, p-p'-DDE and p,p'-TDE (DDD) expressed as DDT)DDT, o,p-DDT, p,p-Deltamethrin (cis-deltamethrin)Demeton-S-MethylDemeton-S-MethylsulfoneDesmethyl PirimicarbDiazinonDichlorvosDicloranDicofol (sum of p, p' and o,p' isomers)DieldrinDiethofencarbDifenoconazoleDimethoateDimethomorph (sum of isomers)Dimethylphenylformamide, 2,4-Dimethylphenyl-N-methylformamidine, N-2,4-Diniconazole (sum of	

	isomers)DiphenylamineDisulfotonDisulfoton (sum of disulfoton, disulfoton sulfoxide and disulfoton sulfone expressed as disulfoton)Disulfoton-SulfonDodineEndosulfan (sum of alpha- and beta-isomers and endosulfan-sulphate expressed as endosulfan)Endosulfan, alpha-Endosulfan, beta-EndosulfansulfateEndrinEPNEpoxiconazoleEthephonEthiofencarbEthionEthirimolEthoprophosEthylene oxideEthylene oxide (sum of ethylene oxide and 2-chloro-ethanol expressed as ethylene oxide)EtofenproxEtoxazoleFamoxadoneFenamidoneFenamiphosFenamiphos (sum of fenamiphos and its sulphoxide and sulphone expressed as fenamiphos)Fenamiphos-SulfonFenamiphos-SulfoxidFenarimolFenazaquinFenbuconazole (sum of constituent enantiomers)FenchlorphosFenchlorphos-oxonFenhexamidFenitrothionFenoxycarbFenpropathrinFenpropidin (sum of fenpropidin and its salts, expressed as fenpropidin)Fenpropimorph (sum of isomers)FenpyroximateFensulfothionFenthionFenthion (fenthion and its oxigen analogue, their sulfoxides and sulfone expressed as parent)Fenthion oxon sulfoneFenthion-OxonFenthion-OxonsulfoxideFenthion-SulfonFenthion-SulfoxideFenvalerate (any ratio of constituent isomers (RR, SS, RS & SR) including esfenvalerate)FipronilFipronil (sum fipronil + sulfone metabolite (MB46136) expressed as fipronil)Fipronil-DesulfinylFipronil-SulfoneFlonicamidFlonicamid (sum of flonicamid, TFNA and TFNG expressed as flonicamid)FlubendiamideFlucythrinate (flucythrinate including other mixtures of consitutent isomers (sum of isomers))FludioxonilFlufenacetFlufenacet (sum of all compounds containing the N fluorophenyl-N-isopropyl moiety expressed as flufenacet)FlufenoxuronFlumethrinFluopicolideFluopyramFluquinconazoleFlusilazoleFlutriafolFluvalinateFolpetFolpet (sum of folpet and phthalimide, expressed as folpet)FonofosFormetanateFormetanate: Sum of formetanate and its salts expressed as formetanate(hydrochloride)FosetylFosthiazateFurathiocarbGlufosinateGlyphosateHeptachlorHeptachlor (sum of heptachlor and heptachlor epoxide expressed as heptachlor)Heptachlor epoxideHexachlorobenzeneHexachlorocyclohexane (HCH), alpha-isomerHexachlorocyclohexane (HCH), beta-isomerHexaconazoleHexythiazoxImazalilImazalil (any ratio of constituent isomers)ImidaclopridIndoxacarb (sum of indoxacarb and its R enantiomer)IprodioneIprovalicarbIsocarbophosIsofenphosIsofenphos-methylIsoprothiolaneIsoxaflutoleIsoxaflutole (sum of isoxaflutole and its diketonitrile-metabolite, expressed as isoxaflutole)Kresoxim-methylLambda-cyhalothrin (includes gamma-cyhalothrin) (sum of R,S and S,R isomers)Lindane (Gamma-isomer of hexachlorocyclohexane (HCH))LinuronLufenuron (any ratio of constituent isomers)MalaoxonMalathionMalathion (sum of malathion and malaoxon expressed as malathion)Mandipropamid (any ratio of constituent isomers)Mefenpyr-diethylMepanipyrimMetalaxyl and metalaxyl-M (metalaxyl including other mixtures of constituent isomers including metalaxyl-M (sum of isomers)Metconazole (sum of isomers)MethacrifosMethamidophosMethidathionMethiocarbMethiocarb (sum of methiocarb and methiocarb sulfoxide and sulfone, expressed as methiocarb)MethomylMethoxychlorMethoxyfenozideMetrafenoneMetribuzinMevinphos	Bitertanol (sum of isomers); Clofentezine; Cyfluthrin (Cyfluthrin including other mixtures of constituent isomers (sum of isomers)); Dichlorvos; Epoxiconazole; Fenamidone; Fenpropimorph (sum

	(sum of E- and Z-isomers)MonocrotophosMPP (3-Methylphosphinicopropionic acid)Myclobutanil (sum of constituent isomers)N-acetyl glyphosateNAG (N-acetyl-glufosinate)NitrofenOmethoateOxadixylOxamylOxychlordaneOxydemeton-methylOxydemeton-methyl (sum of oxydemeton-methyl and demeton-S-methylsulfone expressed as oxydemeton-methyl)Paclobutrazol (sum of constituent isomers)Paraoxon-MethylParathionParathion-methylParathion-methyl (sum of Parathion-methyl and paraoxon-methyl expressed as Parathion-methyl)Penconazole (sum of constituent isomers)PencycuronPendimethalinPermethrin (sum of isomers)PhenthoatePhoratePhosalonePhosmetPhosmet (phosmet and phosmet oxon expressed as phosmet)PhosphamidonPhosphonic acidPhoximPhthalimidePirimicarbPirimiphos-EthylPirimiphos-methylProchlorazProchloraz (sum of prochloraz, BTS 44595 (M201-04) and BTS 44596 (M201-03), expressed as prochloraz)ProcymidoneProfenofosPropamocarb (Sum of propamocarb and its salts, expressed as propamocarb)PropaquizafopPropargiteProphamPropiconazole (sum of isomers)PropoxurPropyzamideProthioconazole: prothioconazole-desthio (sum of isomers)PyraclostrobinPyrazophosPyridabenPyrimethanilPyriproxyfenQuinalphosQuinoxyfenQuintozeneQuintozene (sum of quintozene and pentachloro-aniline expressed as quintozene)Quizalofop (sum of quizalofop, its salts, its esters (including propaquizafop) and its conjugates, expressed as quizalofop (any ratio of constituent isomers))Quizalofop-EthylQuizalofop-P-ethylResmethrin (resmethrin including other mixtures of consituent isomers (sum of isomers))Spinosad (spinosad, sum of spinosyn A and spinosyn D)SpirodiclofenSpiromesifenSpiroxamine (sum of isomers)Sum of metalaxyl (sum of isomers) and its metabolites containing the 2,6-dimethylaniline moiety, expressed as metalaxylTebuconazoleTebufenozideTebufenpyradTecnazeneTefluthrinTerbufosTerbuthylazineTetrachlorvinphosTetraconazoleTetradifonTetramethrinThiabendazoleThiaclopridThiamethoxamThiencarbazone-methylThiodicarbThionazinThiophanate-methylTHPITolclofos-methylTriadimefonTriadimenol (any ratio of constituent isomers)TriazophosTrifloxystrobinTriflumuronTrifluralinTriticonazoleVinclozolinZoxamide	of isomers); Fludioxonil; Flufenoxuron; Imidacloprid; Malathion (sum of malathion and malaoxon expressed as malathion); Methamidophos; Methiocarb (sum of methiocarb and methiocarb sulfoxid
IZS delle Venezie	Abamectin (sum of avermectin B1a, avermectin B1b and delta-8,9 isomer of avermectin B1a, expressed as avermectin B1a)AcetamipridAcibenzolar-S-methylAcrinathrin and its enantiomerAldicarbAldicarb (sum of Aldicarb, its sulfoxide and its sulfone, expressed as Aldicarb)Aldicarb-SulfoneAldicarb-SulfoxideAldrinAldrin and Dieldrin (Aldrin and dieldrin combined expressed as dieldrin)AmitrazAzinphos-ethylAzoxystrobinBenalaxyl including other mixtures of constituent isomers including benalaxyl-M (sum of isomers)Bifenthrin (sum of isomers)Bitertanol (sum of isomers)BoscalidBromopropylateCaptanCarbarylCarbendazimCarbofuran (sum of carbofuran (including any carbofuran generated from carbosulfan, benfuracarb or furathiocarb) and 3-OH carbofuran expressed as carbofuran)Chlordane (sum of cis- and trans-isomers and oxychlordane expressed as chlordane)ChlorfenvinphosChlormequat (sum of chlormequat and its salts, expressed as chlormequat-chloride)ChlorobenzilateChlorothalonilChlorpyrifosChlorpyrifos-methylClothianidinCoumaphosCymoxanilCypermethrinCypermethrin (Cypermethrin including other mixtures of constituent isomers (sum of isomers))CyproconazoleCyprodinilDDD, o,p-DDD, p,p-DDE, p,p-DDT, o,p-DDT, p,p-	

	Deltamethrin (cis-deltamethrin)Desmethyl PirimicarbDiazinonDieldrinDifenoconazoleDiflubenzuron (sum of Diflubenzuron and 4-chlorophenylurea expressed as Diflubenzuron)DimethoateDimethomorph (sum of isomers)DinotefuranDithianonDodemorphDodineEmamectin benzoate B1a, expressed as emamectinEndosulfan (sum of alpha- and beta-isomers and endosulfan-sulphate expressed as endosulfan)Endosulfan, alpha-Endosulfan, beta-EndosulfansulfateEndrinEthoprophosEtofenproxEtridiazoleFenamidoneFenamiphosFenamiphos (sum of fenamiphos and its sulphoxide and sulphone expressed as fenamiphos)Fenamiphos-SulfonFenamiphos-SulfoxidFenarimolFenazaquinFenbuconazole (sum of constituent enantiomers)FenothiocarbFenoxycarbFenpropathrinFenpropidinFenpropimorph carboxylic acid (BF 421-2) expressed as fenpropimorphFenpyroximateFenthionFenvalerate (any ratio of constituent isomers (RR, SS, RS & SR) including esfenvalerate)FipronilFipronil (sum fipronil + sulfone metabolite (MB46136) expressed as fipronil)FluazinamFludioxonilFlufenoxuronFlumethrinFluopicolideFluopyramFlupyradifuroneFluquinconazoleFlutriafolFluvalinate (sum of isomers) resulting from the use of tau-fluvalinateFolpetFolpet (sum of folpet and phthalimide, expressed as folpet)Formetanate hydrochlorideHeptachlorHeptachlor (sum of heptachlor and heptachlor epoxide expressed as heptachlor)HexachlorobenzeneHexachlorocyclohexane (HCH), alpha-isomerHexachlorocyclohexane (HCH), beta-isomerImazalil (any ratio of constituent isomers)ImazosulfuronImidaclopridIndoxacarb (sum of indoxacarb and its R enantiomer)IprodioneIprovalicarbKresoxim-methylLambda-cyhalothrin (includes gamma-cyhalothrin) (sum of R,S and S,R isomers)Lindane (Gamma-isomer of hexachlorocyclohexane (HCH))LinuronLufenuron (any ratio of constituent isomers) MalaoxonMalathionMalathion (sum of malathion and malaoxon expressed as malathion)Metalaxyl and metalaxyl-M (metalaxyl including other mixtures of constituent isomers including metalaxyl-M (sum of isomers)MetamitronMetazachlorMethidathionMethiocarbMethiocarb (sum of methiocarb and methiocarb sulfoxide and sulfone, expressed as methiocarb)Methiocarb-SulfoxidMethomylMethoxychlorMetolachlor and S-metolachlor (metolachlor including other mixtures of constituent isomers including S-metolachlor (sum of isomers))MetrafenoneMyclobutanil (sum of constituent isomers)NitenpyramOmethoateOxadiazonOxamylOxychlordaneParathionParathion-methylParathion-methyl (sum of Parathion-methyl and paraoxon-methyl expressed as Parathion-methyl)Penconazole (sum of constituent isomers)PencycuronPendimethalinPermethrin (sum of isomers)PhosmetPhosmet (phosmet and phosmet oxon expressed as phosmet)Piperonyl ButoxidePirimicarbPirimiphos-methylProchlorazProcymidoneProfenofosPropiconazole (sum of isomers)PyraclostrobinPyrazophosPyridabenPyrimethanilQuinoxyfenResmethrin (resmethrin including other mixtures of consituent isomers (sum of isomers))RotenoneSulfoxaflor (sum of isomers)TebuconazoleTebufenozideTebufenpyradTeflubenzuronTefluthrinTepraloxydimTerbuthylazineTetrachlorvinphosTetraconazoleTetramethrinThiabendazoleThiaclopridThiamethoxamThiobencarbThiodicarbThiophanate-methylTolclofos-methylTriazophosTrifloxystrobinTriflumuronTrifluralinVinclozolin	e and sulfone, expressed as methiocarb); Monocrotophos; Pencycuron; Phosmet (phosmet and phosmet oxon expressed as phosmet); Propyzamide; Tebufenozide; Thiacloprid; Triadimenol (any ratio of

IZS della Sardegna	Abamectin (sum of avermectin B1a, avermectin B1b and delta-8,9 isomer of avermectin B1a, expressed as avermectin B1a)AcephateAcetamipridAldicarb (sum of Aldicarb, its sulfoxide and its sulfone, expressed as Aldicarb)Aldrin and Dieldrin (Aldrin and dieldrin combined expressed as dieldrin)Amitraz (amitraz including the metabolites containing the 2,4 - dimethylaniline moiety expressed as amitraz)Azinphos-ethylAzinphos-methylAzoxystrobinBenalaxyl including other mixtures of constituent isomers including benalaxyl-M (sum of isomers)Bifenthrin (sum of isomers)Bitertanol (sum of isomers)BoscalidBromophosBromophos-ethylBupirimateBuprofezinCarbarylCarbendazim and thiophanate-methyl, expressed as carbendazimCarbofuranCarbophenothionChlorantraniliprole (DPX E-2Y45)ChlorfenvinphosChlormequat (sum of chlormequat and its salts, expressed as chlormequat-chloride)ChlorprophamChlorpyrifosChlorpyrifos-methylClofentezineClothianidinCyazofamidCyfluthrin (Cyfluthrin including other mixtures of constituent isomers (sum of isomers))CymoxanilCypermethrin (Cypermethrin including other mixtures of constituent isomers (sum of isomers))CyproconazoleCyprodinilCyromazineDDT (sum of p,p'-DDT, o,p'-DDT, p-p'-DDE and p,p'-TDE (DDD) expressed as DDT)Deltamethrin (cis-deltamethrin)DiazinonDichlorvosDicrotophosDiethofencarbDifenoconazoleDiflubenzuronDiflubenzuron (sum of Diflubenzuron and 4-chlorophenylurea expressed as Diflubenzuron)DimefoxDimethoateDimethomorph (sum of isomers)Diniconazole (sum of isomers)Disulfoton (sum of disulfoton, disulfoton sulfoxide and disulfoton sulfone expressed as disulfoton)Emamectin benzoate B1a, expressed as emamectinEndosulfan (sum of alpha- and beta-isomers and endosulfan-sulphate expressed as endosulfan)EndrinEpoxiconazoleEthiofencarbEthionEthirimolEthoprophosEtofenproxEtoxazoleEtrimfosFamoxadoneFenamidoneFenamiphos (sum of fenamiphos and its sulphoxide and sulphone expressed as fenamiphos)Fenamiphos-SulfonFenamiphos-SulfoxidFenarimolFenazaquinFenbuconazole (sum of constituent enantiomers)Fenchlorphos (sum of fenchlorphos and fenchlorphos oxon expressed as fenchlorphos)FenhexamidFenitrothionFenoxycarbFenpropathrinFenpropimorph (sum of isomers)FenpyroximateFenthion (fenthion and its oxigen analogue, their sulfoxides and sulfone expressed as parent)Fenvalerate (any ratio of constituent isomers (RR, SS, RS & SR) including esfenvalerate)Fipronil (sum fipronil + sulfone metabolite (MB46136) expressed as fipronil)Flonicamid (sum of flonicamid, TFNA and TFNG expressed as flonicamid)Fluazifop-P (sum of all the constituent isomers of fluazifop, its esters and its conjugates, expressed as fluazifop)FlubendiamideFlucythrinate (flucythrinate including other mixtures of consitutent isomers (sum of isomers))FlufenoxuronFluopicolideFluopyramFluquinconazoleFlusilazoleFlutriafolFonofosFormetanate: Sum of formetanate and its salts expressed as formetanate(hydrochloride)FormothionFosthiazateHeptachlor (sum of heptachlor and heptachlor epoxide expressed as heptachlor)HexachlorobenzeneHexachlorocyclohexane (HCH), alpha-isomerHexachlorocyclohexane (HCH), beta-isomerHexaconazoleHexythiazoxImazalil (any ratio of constituent isomers)ImidaclopridIndoxacarb (sum of indoxacarb and its R enantiomer)IprodioneIprovalicarbIsocarbophosKresoxim-	constituent isomers); Clothianidin; Cymoxanil; Dicloran; Diethofencarb; Diniconazole (sum of isomers); Diphenylamine; Fenitrothion; Fluopicolide; Hexythiazox; Lambda-cyhalothrin (includes

	methylLambda-cyhalothrin (includes gamma-cyhalothrin) (sum of R,S and S,R isomers)Lindane (Gamma-isomer of hexachlorocyclohexane (HCH))LinuronLufenuron (any ratio of constituent isomers)Malathion (sum of malathion and malaoxon expressed as malathion)Mandipropamid (any ratio of constituent isomers)MepanipyrimMepiquat (sum of mepiquat and its salts, expressed as mepiquat chloride)Metalaxyl and metalaxyl-M (metalaxyl including other mixtures of constituent isomers including metalaxyl-M (sum of isomers)MethacrifosMethamidophosMethidathionMethiocarb (sum of methiocarb and methiocarb sulfoxide and sulfone, expressed as methiocarb)MethomylMethoxychlorMethoxyfenozideMetrafenoneMevinphos (sum of E- and Z-isomers)MonocrotophosOxadixylOxamylOxydemeton-methyl (sum of oxydemeton-methyl and demeton-S-methylsulfone expressed as oxydemeton-methyl)Paclobutrazol (sum of constituent isomers)ParathionParathion-methyl (sum of Parathion-methyl and paraoxon-methyl expressed as Parathion-methyl)Penconazole (sum of constituent isomers)PencycuronPendimethalinPermethrin (sum of isomers)Phenothrin (phenothrin including other mixtures of constituent isomers (sum of isomers))PhosalonePhosmet (phosmet and phosmet oxon expressed as phosmet)PhosphamidonPirimicarbPirimiphos-EthylPirimiphos-methylProchloraz (sum of prochloraz, BTS 44595 (M201-04) and BTS 44596 (M201-03), expressed as prochloraz)ProcymidoneProfenofosPropamocarb (Sum of propamocarb and its salts, expressed as propamocarb)PropargitePropetamphosPropiconazole (sum of isomers)PropoxurPymetrozinePyraclostrobinPyrazophosPyridabenPyrimethanilPyriproxyfenQuinoxyfenQuintozene (sum of quintozene and pentachloro-aniline expressed as quintozene)Resmethrin (resmethrin including other mixtures of consituent isomers (sum of isomers))Spinosad (spinosad, sum of spinosyn A and spinosyn D)SpirodiclofenSpiromesifenSpirotetramatSpiroxamine (sum of isomers)SulfotepSum of chlorpyrifos-methyl and desmethyl chlorpyrifos-methylTebuconazoleTebufenozideTebufenpyradTecnazeneTeflubenzuronTerbuthylazineTetrachlorvinphosTetraconazoleTetramethrinThiabendazoleThiaclopridThiamethoxamThiodicarbThiophanate-methylTolclofos-methylTriadimefonTriadimenol (any ratio of constituent isomers)TriazophosTrifloxystrobinTriflumuronTriticonazole	gamma-cyhalothrin) (sum of R,S and S,R isomers); Methomyl; Methoxyfenozide; Oxamyl; Tefluthrin; Tetradifon; Thiamethoxam; Triflumuron; Vinclozolin; Cyazofamid; Ethirimol; Fenami
IZS Lazio e Toscana	2,4-Dimethylanilin2,4-D-MethylesterAcephateAcetamipridAcrinathrin and its enantiomerAldicarb (sum of Aldicarb, its sulfoxide and its sulfone, expressed as Aldicarb)AldrinAldrin and Dieldrin (Aldrin and dieldrin combined expressed as dieldrin)AminocarbAmitrazAtrazineAzinphos-ethylAzinphos-methylAzoxystrobinBenalaxyl including other mixtures of constituent isomers including benalaxyl-M (sum of isomers)BendiocarbBenfuracarbBenzovindiflupyrBifenthrin (sum of isomers)Bitertanol (sum of isomers)BixafenBoscalidBromophosBromophos-ethylBromopropylateBromuconazole (sum of diasteroisomers)BupirimateBuprofezinCadusafosCarbarylCarbofuranCarbofuran (sum of carbofuran (including any carbofuran generated from carbosulfan, benfuracarb or furathiocarb) and 3-OH carbofuran expressed as carbofuran)Carbofuran, 3-hydroxyCarbophenothionCarbosulfanCarboxinChlorantraniliprole (DPX E-2Y45)Chlordane (sum of cis- and trans-chlordane)Chlordane (sum of cis- and trans-isomers and oxychlordane expressed as	

	chlordane)ChlorfenapyrChlorfenvinphosChlorobenzilateChlorothalonilChlorprophamChlorpyrifosChlorpyrifos-methylChlorthiophoscis-PermethrinClofentezineClothianidinCoumaphosCyazofamidCyfluthrin (Cyfluthrin including other mixtures of constituent isomers (sum of isomers))CymiazoleCymoxanilCypermethrin (Cypermethrin including other mixtures of constituent isomers (sum of isomers))CyproconazoleCyprodinilDDD, o,p-DDD, p,p-DDE, p,p-DDT (sum of p,p'-DDT, o,p'-DDT, p-p'-DDE and p,p'-TDE (DDD) expressed as DDT)DDT, o,p-DDT, p,p-Deltamethrin (cis-deltamethrin)Demeton-S-MethylDemeton-S-MethylsulfoneDesmethyl PirimicarbDialifosDiazinonDichlofenthionDichlofluanidDichlorvosDicloranDicofol (sum of p, p' and o,p' isomers)DieldrinDiethofencarbDifenoconazoleDiflubenzuronDimethoateDimethomorph (sum of isomers)Dimethylphenylformamide, 2,4-Dimethylphenyl-N-methylformamidine, N-2,4-Diniconazole (sum of isomers)DinotefuranDiphenylamineDisulfotonEndosulfan (sum of alpha- and beta-isomers and endosulfan-sulphate expressed as endosulfan)Endosulfan, alpha-Endosulfan, beta-EndosulfansulfateEndrinEPNEpoxiconazoleEthiofencarbEthionEthirimolEthoprophosEtofenproxEtrimfosFenamidoneFenamiphosFenamiphos (sum of fenamiphos and its sulphoxide and sulphone expressed as fenamiphos)Fenamiphos-SulfonFenarimolFenazaquinFenchlorphosFenchlorphos (sum of fenchlorphos and fenchlorphos oxon expressed as fenchlorphos)Fenchlorphos-oxon FenhexamidFenitrothionFenobucarbFenoxycarbFenpropathrinFenpropidinFenpropidin (sum of fenpropidin and its salts, expressed as fenpropidin)Fenpropimorph (sum of isomers)FenpyrazamineFenpyroximateFenthionFenvalerate (any ratio of constituent isomers (RR, SS, RS & SR) including esfenvalerate)FipronilFipronil (sum fipronil + sulfone metabolite (MB46136) expressed as fipronil)Fipronil-SulfoneFlonicamidFlubendiamideFludioxonilFlufenoxuronFlumethrinFluopicolideFluopyramFluquinconazoleFlusilazoleFlutolanilFlutriafolFluvalinateFluxapyroxadFonofosFormothionFosthiazateFurathiocarbGlyphosateHeptachlorHeptachlor (sum of heptachlor and heptachlor epoxide expressed as heptachlor)Heptachlor epoxideHexachlorobenzeneHexachlorocyclohexane (HCH), alpha-isomerHexachlorocyclohexane (HCH), beta-isomerHexaconazoleHexythiazoxImazalilImazalil (any ratio of constituent isomers)ImidaclopridIndoxacarb (sum of indoxacarb and its R enantiomer)IodofenphosIprodioneIprovalicarbIsofenphosIsofenphos-methylIsofenphos-oxonIsoprothiolaneIsoproturonKresoxim-methylLambda-cyhalothrin (includes gamma-cyhalothrin) (sum of R,S and S,R isomers)Lindane (Gamma-isomer of hexachlorocyclohexane (HCH))LinuronLufenuron (any ratio of constituent isomers)MalaoxonMalathionMalathion (sum of malathion and malaoxon expressed as malathion)Mandipropamid (any ratio of constituent isomers)MepanipyrimMetaflumizoneMetaflumizone (sum of E- and Z- isomers)Metalaxyl and metalaxyl-M (metalaxyl including other mixtures of constituent isomers including metalaxyl-M (sum of isomers)Metconazole (sum of isomers)MethacrifosMethamidophosMethidathionMethiocarbMethiocarb (sum of methiocarb and methiocarb sulfoxide and sulfone, expressed as	phos (sum of fenamiphos and its sulphoxide and sulphone expressed as fenamiphos); Fenpyroximate; Fipronil (sum Fipronil and sulfone metabolite (MB46136) expressed as Fipronil); Fluopyram; Fosthia

	methiocarb)MethomylMethoxychlorMethoxyfenozideMetolachlor and S-metolachlor (metolachlor including other mixtures of constituent isomers including S-metolachlor (sum of isomers))Mevinphos (sum of E- and Z-isomers)MonocrotophosNitenpyramOmethoateOxadixylOxamylOxycarboxinOxychlordaneOxydemeton-methylOxydemeton-methyl (sum of oxydemeton-methyl and demeton-S-methylsulfone expressed as oxydemeton-methyl)Paclobutrazol (sum of constituent isomers)ParathionParathion-methylParathion-methyl (sum of Parathion-methyl and paraoxon-methyl expressed as Parathion-methyl)Penconazole (sum of constituent isomers)PencycuronPendimethalinPermethrin (sum of isomers)PhenthoatePhoratePhorate (sum of phorate, its oxygen analogue and their sulfones expressed as phorate)Phorate-O-analoguePhorate-oxonsulfonePhorate-SulfonPhorate-SulfoxidPhosalonePhosmet (phosmet and phosmet oxon expressed as phosmet)PhosphamidonPhoximPirimicarbPirimiphos-EthylPirimiphos-methylProchloraz ProcymidoneProfenofosPropamocarb (Sum of propamocarb and its salts, expressed as propamocarb)PropargitePropetamphosPropiconazole (sum of isomers)PropoxurPropyzamideProthioconazole: prothioconazole-desthio (sum of isomers)PyraclostrobinPyrazophosPyridabenPyrimethanilPyriproxyfenQuinalphosQuinoxyfenQuintozeneQuintozene (sum of quintozene and pentachloro-aniline expressed as quintozene)Resmethrin (resmethrin including other mixtures of consituent isomers (sum of isomers))SimazineSpiromesifenSpiroxamine (sum of isomers)SulfotepTebuconazoleTebufenozideTebufenpyradTecnazeneTefluthrinTerbufosTerbuthylazineTetrachlorvinphosTetraconazoleTetradifonTetramethrinThiabendazoleThiaclopridThiamethoxamThiodicarbThionazinTolclofos-methylTolylfluanidTolylfluanid (Sum of tolylfluanid and dimethylaminosulfotoluidide expressed as tolylfluanid)Trans-permethrinTriadimefonTriadimenol (any ratio of constituent isomers)TriazophosTricyclazoleTrifloxystrobinTriflumuronTrifluralinTriticonazoleVamidothionVinclozolinZoxamide	zate; Lufenuron (any ratio of constituent isomers); Parathion-methyl (sum of Parathion-methyl and paraoxon-methyl expressed as Parathion-methyl); Propamocarb (Sum of propamocarb and its salt
IZS Umbria e Marche	Acrinathrin and its enantiomerAldrinAzinphos-ethylBifenthrin (sum of isomers)BromopropylateChlorfenvinphosChlorobenzilateChlorpyrifosChlorpyrifos-methylCoumaphosCyfluthrin (Cyfluthrin including other mixtures of constituent isomers (sum of isomers))Cypermethrin (Cypermethrin including other mixtures of constituent isomers (sum of isomers))DDD, o,p-DDD, p,p-DDE, o,p-DDE, p,p-DDT, o,p-DDT, p,p-Deltamethrin (cis-deltamethrin)DiazinonDicofol p, p'DieldrinDisulfotonEndosulfan, alpha-Endosulfan, beta-EndosulfansulfateEndrinEtofenproxFenpropathrinFenthionFenvalerate (any ratio of constituent isomers (RR, SS, RS & SR) including esfenvalerate)Flucythrinate (flucythrinate including other mixtures of consitutent isomers (sum of isomers))Glufosinate (sum of glufosinate isomers, its salts and its metabolites 3-[hydroxy(methyl)phosphinoyl]propionic acid (MPP) and N-acetyl-glufosinate (NAG), expressed as glufosinate)Glufosinate-ammoniumGlyphosateHeptachlorHeptachlor epoxideHexachlorobenzeneHexachlorocyclohexane (HCH), alpha-isomerHexachlorocyclohexane (HCH), beta-isomerLambda-cyhalothrin (includes gamma-cyhalothrin) (sum of R,S and S,R	

	isomers)Lindane (Gamma-isomer of hexachlorocyclohexane (HCH))MalathionMalathion (sum of malathion and malaoxon expressed as malathion)MethacrifosMethidathionMethoxychlorMPP (3-Methylphosphinicopropionic acid)NAG (N-acetyl-glufosinate)NitrofenOxychlordaneParathionParathion-methylPendimethalinPermethrin (sum of isomers)Pirimiphos-methylProfenofosPyrazophosQuintozeneTecnazeneTetradifonTriazophosVinclozolin	expressed as propamocarb); Thiodicarb; Thiophanate-methyl
IZS Abruzzo Molise	2,4,5-T2,4,5-T (sum of 2,4,5-T, its salts and esters, expressed as 2,4,5-T)2,4-D2,4-D (sum of 2,4-D, its salts, its esters and its conjugates, expressed as 2,4-D)2,4-DB2,4-DB (sum of 2,4-DB, its salts, its esters and its conjugates, expressed as 2,4-DB)2,4-Dimethylanilin2-chloro-N-(4'-chloro-5-hydroxybiphenyl-2-yl)nicotinamide (M510F01)2-phenylphenol2-Phenylphenol (sum of 2-phenylphenol and its conjugates, expressed as 2-phenylphenol)3-OH-carbofuran (free and conjugated) expressed as carbofuranAbamectin (sum of avermectin B1a, avermectin B1b and delta-8,9 isomer of avermectin B1a, expressed as avermectin B1a)AcephateAcetamipridAcrinathrin and its enantiomerAldicarbAldicarb (sum of Aldicarb, its sulfoxide and its sulfone, expressed as Aldicarb)Aldicarb-SulfoneAldicarb-SulfoxideAldrinAldrin and Dieldrin (Aldrin and dieldrin combined expressed as dieldrin)AmetoctradinAmitrazAmitraz (amitraz including the metabolites containing the 2,4 -dimethylaniline moiety expressed as amitraz)AtrazineAvermectin B1aAzamethiphosAzinphos-ethylAzinphos-methylAzoxystrobinBenalaxyl including other mixtures of constituent isomers including benalaxyl-M (sum of isomers)BenfuracarbBentazoneBentazone (Sum of bentazone, its salts and 6-hydroxy (free and conjugated) and 8-hydroxy bentazone (free and conjugated), expressed as bentazone)Bifenazate (sum of bifenazate plus bifenazate-diazene expressed as bifenazate)BifenoxBifenthrin (sum of isomers)Bitertanol (sum of isomers)BixafenBixafen (sum of bixafen and desmethyl-bixafen, expressed as bixafen)BoscalidBromide ionBromophosBromophos-ethylBromopropylateBromoxynil and its salts, expressed as bromoxynilBromuconazole (sum of diasteroisomers)BupirimateBuprofezinBYI08330 enol-glucoside (cis-3-(2,5-Dimethylphenyl)-8-methoxy-2-oxo-1-azaspiro [4.5]dec-3-en-4-yl ß-D-glucopyranoside)BYI08330-enol (cis-3-(2,5-dimethylphenyl)-4-hydroxy-8-methoxy-1-azaspiro[4.5]dec-3-en-2-one)BYI08330-ketohydroxy ((cis-3-(2,5-Dimethylphenyl)-3-hydroxy-8-methoxy-1-azaspiro[4.5]decane-2,4-dione)BYI08330-monohydroxy (cis-3-(2,5-Dimethylphenyl)-4-hydroxy-8-methoxy-1-azaspiro[4.5]decan-2-one)CadusafosCarbarylCarbendazimCarbendazim and benomyl (sum of benomyl and carbendazim expressed as carbendazim)Carbendazim and thiophanate-methyl, expressed as carbendazimCarbetamide (sum of carbetamide and its S isomer)CarbofuranCarbofuran (sum of carbofuran (including any carbofuran generated from carbosulfan, benfuracarb or furathiocarb) and 3-OH carbofuran expressed as carbofuran)Carbofuran, 3-hydroxyCarbosulfanCarboxinChlorantraniliprole (DPX E-2Y45)Chlordane (sum of cis- and trans-chlordane)Chlordane (sum of cis- and trans-isomers and oxychlordane expressed as chlordane)ChlorfenapyrChlorfenvinphosChlorfluazuronChlormequat (sum of chlormequat and its salts, expressed as chlormequat-chloride)ChlorobenzilateChlorothalonilChlorprophamChlorpropham and 4-hydroxychlorpropham-O-sulphonic acid (4-HSA),expressed as chlorprophamChlorpyrifosChlorpyrifos-methylCL 9673 (6-chloro-4-hydroxy-3-	

	phenylpyridazin)ClofentezineClomazoneClothianidinCoumaphosCyazofamidCyflufenamid (sum of cyflufenamid (Z-isomer) and its E-isomer, expressed as cyflufenamid)Cyfluthrin (Cyfluthrin including other mixtures of constituent isomers (sum of isomers))CymoxanilCypermethrin (Cypermethrin including other mixtures of constituent isomers (sum of isomers))CyproconazoleCyprodinilCyprodinil (sum of cyprodinil and CGA 304075 (free), expressed as cyprodinil)CyromazineDDD, o,p-DDD, p,p-DDE, o,p-DDE, p,p-DDT (sum of p,p'-DDT, o,p'-DDT, p-p'-DDE and p,p'-TDE (DDD) expressed as DDT)DDT, o,p-DDT, p,p-Deltamethrin (cis-deltamethrin)Demeton-S-MethylDemeton-S-MethylsulfoneDesmethyl PirimicarbDesmethyl-bixafenDiazinonDicambaDichlobenilDichlofluanidDichlorobenzamide, 2,6-Dichlorobenzophenone, 4,4`- DichlorpropDichlorprop (Sum of dichlorprop (including dichlorprop-P), its salts, esters and conjugates, expressed as dichlorprop)DichlorvosDiclobutrazolDicloranDicofol (sum of p, p' and o,p' isomers)DicrotophosDieldrinDiethofencarbDiethyl-m-toluamid, N,N-DifenoconazoleDifenzoquatDiflubenzuronDiflufenicanDimethoateDimethomorph (sum of isomers)Dimethylaminosulfotoluidide (DMST)Dimethylphenylformamide, 2,4-Dimethylphenyl-N-methylformamidine, N-2,4-DimoxystrobinDiniconazole (sum of isomers)DiphenylamineDisulfotonDisulfoton (sum of disulfoton, disulfoton sulfoxide and disulfoton sulfone expressed as disulfoton)Disulfoton-SulfonDisulfoton-SulfoxidDodineEmamectin benzoate B1a, expressed as emamectinEndosulfan (sum of alpha- and beta-isomers and endosulfan-sulphate expressed as endosulfan)Endosulfan, alpha-Endosulfan, beta-EndosulfansulfateEndrinEPNEpoxiconazoleEthephonEthionEthirimolEthoprophosEthoxyquinEtofenproxEtoxazoleEtrimfosFamoxadoneFenamidoneFenamiphosFenamiphos (sum of fenamiphos and its sulphoxide and sulphone expressed as fenamiphos)Fenamiphos-SulfonFenamiphos-SulfoxidFenarimolFenazaquinFenbuconazole (sum of constituent enantiomers)FenchlorphosFenchlorphos (sum of fenchlorphos and fenchlorphos oxon expressed as fenchlorphos)FenhexamidFenitrothionFenoxycarbFenpropathrinFenpropidin (sum of fenpropidin and its salts, expressed as fenpropidin)Fenpropimorph (sum of isomers)FenpyrazamineFenpyroximateFensulfothionFensulfothion oxonFensulfothion-oxon-sulphoneFensulfothion-sulfonFenthionFenthion (fenthion and its oxigen analogue, their sulfoxides and sulfone expressed as parent)Fenthion oxon sulfoneFenthion-OxonFenthion-OxonsulfoxideFenthion-SulfonFenthion-SulfoxideFenvalerate (any ratio of constituent isomers (RR, SS, RS & SR) including esfenvalerate)FipronilFipronil (sum fipronil + sulfone metabolite (MB46136) expressed as fipronil)Fipronil-DesulfinylFipronil-SulfoneFlonicamidFluazifopFluazifop-P (sum of all the constituent isomers of fluazifop, its esters and its conjugates, expressed as fluazifop)FlubendiamideFludioxonilFlufenacetFlufenacet (sum of all compounds containing the N fluorophenyl-N-isopropyl moiety expressed as flufenacet)FlufenoxuronFluopicolideFluopyramFluopyram (sum fluopyram and fluopyram-benzamide (M25) expressed as fluopyram)Fluopyram-benzamide (M25)FluoxastrobinFluoxastrobin (sum of fluoxastrobin and its Z-isomer)FluquinconazoleFluroxypyrFluroxypyr (sum of	

	fluroxypyr, its salts, its esters, and its conjugates, expressed as fluroxypyr)FlusilazoleFlutolanilFlutriafolFluxapyroxadFolpetFolpet (sum of folpet and phthalimide, expressed as folpet)FosetylFosetyl-Al (sum of fosetyl, phosphonic acid and their salts, expressed as fosetyl)FosthiazateGlufosinate (sum of glufosinate isomers, its salts and its metabolites 3-[hydroxy(methyl)phosphinoyl]propionic acid (MPP) and N-acetyl-glufosinate (NAG), expressed as glufosinate)Glufosinate-ammoniumGlyphosateHaloxyfopHaloxyfop (Sum of haloxyfop, its esters, salts and conjugates expressed as haloxyfop (sum of the R- and S- isomers at any ratio)) HeptachlorHeptachlor (sum of heptachlor and heptachlor epoxide expressed as heptachlor)Heptachlor endo-epoxideHeptachlor epoxideHeptachlor exo-epoxideHexachlorobenzeneHexachlorocyclohexane (HCH), alpha-isomerHexachlorocyclohexane (HCH), beta-isomerHexaconazoleHexythiazoxImazalilImidaclopridIndoxacarb (sum of indoxacarb and its R enantiomer)Ioxynil (sum of ioxynil and its salts, expressed as ioxynil)IprodioneIprovalicarbIsocarbophosIsodrinIsofenphos-methylIsoprocarbIsoprothiolaneIsoproturonIsopyrazamIsoxaflutoleIsoxaflutole (sum of isoxaflutole and its diketonitrile-metabolite, expressed as isoxaflutole)Kresoxim-methylLambda-cyhalothrin (includes gamma-cyhalothrin) (sum of R,S and S,R isomers)Lindane (Gamma-isomer of hexachlorocyclohexane (HCH))LinuronLufenuron (any ratio of constituent isomers)MalaoxonMalathionMalathion (sum of malathion and malaoxon expressed as malathion)Mandipropamid (any ratio of constituent isomers)MCPAMCPA and MCPB (MCPA, MCPB including their salts, esters and conjugates expressed as MCPA)MCPBMecoprop (sum of mecoprop-p and mecoprop expressed as mecoprop)MepanipyrimMepiquat (sum of mepiquat and its salts, expressed as mepiquat chloride)Metaflumizone (sum of E- and Z- isomers)Metalaxyl and metalaxyl-M (metalaxyl including other mixtures of constituent isomers including metalaxyl-M (sum of isomers)Metconazole (sum of isomers)MethacrifosMethamidophosMethidathionMethiocarbMethiocarb (sum of methiocarb and methiocarb sulfoxide and sulfone, expressed as methiocarb)Methiocarb-SulfonMethiocarb-SulfoxidMethomylMethoxychlorMethoxyfenozideMetobromuronMetolachlor and S-metolachlor (metolachlor including other mixtures of constituent isomers including S-metolachlor (sum of isomers))MetrafenoneMetribuzinMevinphos (sum of E- and Z-isomers)MirexMonocrotophosMyclobutanil (sum of constituent isomers)NitenpyramNitrofenNovaluronOmethoateOxadiargylOxadiazonOxadixylOxamylOxychlordaneOxydemeton-methylOxydemeton-methyl (sum of oxydemeton-methyl and demeton-S-methylsulfone expressed as oxydemeton-methyl)OxyfluorfenPaclobutrazol (sum of constituent isomers)Paraoxon-MethylParathionParathion-methylParathion-methyl (sum of Parathion-methyl and paraoxon-methyl expressed as Parathion-methyl)Penconazole (sum of constituent isomers)PencycuronPendimethalinPenflufenPenthiopyradPermethrin (sum of isomers)PhenthoatePhoratePhosalonePhosmetPhosmet (phosmet and phosmet oxon expressed as phosmet)Phosmet oxonPhosphamidonPhosphonic acidPhoximPicolinafenPiperonyl ButoxidePirimicarbPirimicarb (sum of Pirimicarb and Desmethyl pirimicarb expressed as Pirimicarb)Pirimiphos-EthylPirimiphos-	

	methylProchlorazProcymidoneProfenofosPropamocarb (Sum of propamocarb and its salts, expressed as propamocarb)PropargitePropiconazole (sum of isomers)PropoxurPropyzamideProquinazidProsulfocarb ProsulfocarbProthioconazole: prothioconazole-desthio (sum of isomers)ProthiofosPymetrozinePyraclostrobinPyrazophosPyrethrinsPyridabenPyridalylPyrimethanilPyriofenonePyriproxyfenPyroxsulamQuinalphosQuinoclamineQuinoxyfenQuintozeneResmethrin (resmethrin including other mixtures of consituent isomers (sum of isomers))RotenoneSimazineSpinetoramSpinosad (spinosad, sum of spinosyn A and spinosyn D)SpirodiclofenSpiromesifenSpirotetramatSpirotetramat (spirotetramat and its metabolite BYI08330-enol expressed as spirotetramat)Spirotetramat and its 4 metabolites BYI08330-enol, BYI08330-ketohydroxy, BYI08330-monohydroxy, and BYI08330 enol-glucoside, expressed as spirotetramatSpiroxamine (sum of isomers)SulfotepSulfoxaflor (sum of isomers)Sum of metalaxyl (sum of isomers) and its metabolites containing the 2,6-dimethylaniline moiety, expressed as metalaxylTebuconazoleTebufenozideTebufenpyradTecnazeneTeflubenzuronTefluthrinTerbufosTerbufos SulfoneTerbufos SulfoxideTerbuthylazineTetraconazoleTetradifonTetramethrinThiabendazoleThiaclopridThiamethoxamThiodicarbThiophanate-methylTolclofos-methylTolylfluanidTolylfluanid (Sum of tolylfluanid and dimethylaminosulfotoluidide expressed as tolylfluanid)TriadimefonTriadimenol (any ratio of constituent isomers)Tri-allateTriazophosTrichlorfonTriclopyrTricyclazoleTrifloxystrobinTrifloxystrobin (sum of trifloxystrobin and its metabolite (E, E)-methoxyimino- {2-[1-(3-trifluoromethyl-phenyl)-ethylideneamino-oxymethyl]-phenyl}-acetic acid (CGA 321113))TriflumuronTrifluralinTrimethyl-sulfonium cation, resulting from the use of glyphosateTriticonazoleTritosulfuronVinclozolinZoxamide	
IZS della Sicilia	2-phenylphenolAcephateAcequinocylAcetamipridAcetochlorAcibenzolar-S-methyl (sum of acibenzolar-S-methyl and acibenzolar acid (free and conjugated), expressed as acibenzolar-S-methyl)AlachlorAldicarb-SulfoneAldrinAldrin and Dieldrin (Aldrin and dieldrin combined expressed as dieldrin)AllidochlorAmetrynAminocarbAmitrazAnthraquinoneAzinphos-ethylAzinphos-methylAzoxystrobinBenalaxyl including other mixtures of constituent isomers including benalaxyl-M (sum of isomers)BendiocarbBenfluralinBenzoximateBifenthrin (sum of isomers)BioallethrinBitertanol (sum of isomers)BoscalidBromfenvinfosBromfenvinfos-methylBromophos-ethylBromopropylateBromuconazole (sum of diasteroisomers)BupirimateBuprofezinButafenacilButocarboximButoxycarboximCadusafosCarbarylCarbendazimCarbendazim and benomyl (sum of benomyl and carbendazim expressed as carbendazim)CarbofuranCarbofuran (sum of carbofuran (including any carbofuran generated from carbosulfan, benfuracarb or furathiocarb) and 3-OH carbofuran expressed as carbofuran)Carbofuran, 3-hydroxyCarbophenothionCarboxinChlorantraniliprole (DPX E-2Y45)ChlorbensideChlordane (sum of cis- and trans-chlordane)Chlordane (sum of cis- and trans-isomers and oxychlordane expressed as	

	chlordane)ChlorfensonChlorfenvinphosChlorfluazuronChlorobenzilateChloronebChlorotoluronChloroxuronChlorpropha mChlorpyrifosChlorpyrifos-methylChlorthal-dimethylChlorthiophosChlozolinateClethodim (sum of Sethoxydim and Clethodim including degradation products calculated as Sethoxydim)Clodinafop and its S-isomers, expressed as clodinafopClofentezineClomazoneCloquintocet-MexylClothianidinCoumaphosCyazofamidCycloateCycluronCyfluthrin (Cyfluthrin including other mixtures of constituent isomers (sum of isomers))CymoxanilCypermethrin (Cypermethrin including other mixtures of constituent isomers (sum of isomers))CyproconazoleCyprodinilDDD, o,p-DDD, p,p-DDE, o,p-DDE, p,p-DDT (sum of p,p'-DDT, o,p'-DDT, p-p'-DDE and p,p'-TDE (DDD) expressed as DDT)DDT, o,p-DDT, p,p-Deltamethrin (cis-deltamethrin)DesmediphamDiazinonDiclobutrazolDicloranDieldrinDiethofencarbDifenoconazoleDiflubenzuronDiflubenz uron (sum of Diflubenzuron and 4-chlorophenylurea expressed as Diflubenzuron)DimethachlorDimethoateDimethomorph (sum of isomers)DimoxystrobinDiniconazole (sum of isomers)DinotefuranDioxacarbDiphenylamineDisulfotonDisulfoton (sum of disulfoton, disulfoton sulfoxide and disulfoton sulfone expressed as disulfoton)DiuronEdifenphosEndosulfan (sum of alpha- and beta-isomers and endosulfan-sulphate expressed as endosulfan)Endosulfan, alpha-Endosulfan, beta-EndosulfansulfateEndrinEPNEpoxiconazoleEtaconazoleEthalfluralinEthiofencarbEthionEthiproleEthirimolEthoprophosEt ofenproxEtoxazoleFenamidoneFenamiphosFenarimolFenazaquinFenchlorphosFenhexamidFenobucarbFenoxycarbFenpr opathrinFenpropimorph (sum of isomers)FenpyroximateFensonFenthionFenuronFenvalerate (any ratio of constituent isomers (RR, SS, RS & SR) including esfenvalerate)FipronilFluazifop-P-butylFlubendiamideFluchloralinFlucythrinate (flucythrinate including other mixtures of consitutent isomers (sum of isomers))FludioxonilFlufenacetFlufenoxuronFluometuronFluopicolideFluoxastrobin (sum of fluoxastrobin and its Z-isomer)FluquinconazoleFluridoneFlusilazoleFlutolanilFlutriafolFluvalinateFonofosForchlorfenuronFormetanate hydrochlorideFuralaxylFurathiocarbHCH, delta-HeptachlorHeptachlor (sum of heptachlor and heptachlor epoxide expressed as heptachlor)Heptachlor epoxideHexachlorobenzeneHexachlorocyclohexane (HCH), alpha-isomerHexachlorocyclohexane (HCH), beta-isomerHexaconazoleHexazinoneHexythiazoxHydramethylnonImidaclopridIndoxacarb (sum of indoxacarb and its R enantiomer)IodofenphosIodosulfuron-methyl (iodosulfuron-methyl including salts, expressed as iodosulfuron-methyl)IpconazoleIprodioneIprovalicarbIsodrinIsoprocarbIsopropalinIsoproturonKresoxim-methylLambda-cyhalothrin (includes gamma-cyhalothrin) (sum of R,S and S,R isomers)Lindane (Gamma-isomer of hexachlorocyclohexane (HCH))LinuronLufenuron (any ratio of constituent isomers)MalathionMefenacetMefenpyr-diethylMepanipyrimMepronilMesosulfuron-methylMetaflumizone (sum of E- and Z- isomers)Metalaxyl and metalaxyl-M (metalaxyl including other mixtures of constituent isomers including metalaxyl-M (sum of isomers)Metazachlor (Sum of metabolites 479M04, 479M08 and 479M16, expressed as metazachlor)Metconazole (sum of	

	isomers)MethabenzthiazuronMethacrifosMethamidophosMethiocarbMethiocarb (sum of methiocarb and methiocarb sulfoxide and sulfone, expressed as methiocarb)MethoprotryneMethoxychlorMethoxychlorolefinMethoxyfenozideMetobromuronMetolachlor and S-metolachlor (metolachlor including other mixtures of constituent isomers including S-metolachlor (sum of isomers))MetribuzinMevinphos (sum of E- and Z-isomers)MirexMonolinuronNeburonNitenpyramNitrofenNorflurazonNovaluronNuarimolOmethoateOxadiazonOxadixyl OxychlordaneOxyfluorfenPaclobutrazol (sum of constituent isomers)ParathionParathion-methylPebulatePenconazole (sum of constituent isomers)PencycuronPentachloroanilinePermethrin (sum of isomers)PhenmediphamPhenothrin (phenothrin including other mixtures of constituent isomers (sum of isomers))PhoratePhosalonePhosmetPhosmet (phosmet and phosmet oxon expressed as phosmet)PicoxystrobinPirimicarbPirimiphos-EthylPirimiphos-methylPretilachlorProchlorazProcymidoneProfenofosProfluralinPromecarbPrometonPrometrynPropachlor: oxalinic derivate of propachlor, expressed as propachlorPropamocarb (Sum of propamocarb and its salts, expressed as propamocarb)PropanilPropargitePropiconazole (sum of isomers)PropisochlorPropoxurPropyzamideProthioconazole: prothioconazole-desthio (sum of isomers)ProthiofosPymetrozinePyracarbolidPyraclofosPyraclostrobinPyrazophosPyridabenPyridaphenthionPyrimethanil PyriproxyfenQuinalphosQuinoxyfenQuintozene (sum of quintozene and pentachloro-aniline expressed as quintozene)Resmethrin (resmethrin including other mixtures of consituent isomers (sum of isomers))RotenoneSecbumetonSiduronSimetrynSpinetoramSpinosad (spinosad, sum of spinosyn A and spinosyn D)SpirodiclofenSpiromesifenSpirotetramatSpiroxamine (sum of isomers)SulfotepSulprofosTebuconazoleTebufenozideTebufenpyradTebuthiuronTecnazeneTefluthrinTemephosTerbacil TerbucarbTerbufosTerbumetonTerbuthylazineTerbutrynTetrachlorvinphosTetraconazoleTetradifonTetramethrinThiaclopridThidiazuronThiobencarbThiophanate-methylTolclofos-methylTransfluthrinTriadimefonTriadimenol (any ratio of constituent isomers)Tri-allateTriazophosTribenuron-methylTrichlorfonTricyclazoleTrifloxystrobinTriflumizole Triflumizole and metabolite FM-6-1(N-(4-chloro-2-trifluoromethylphenyl)-n-propoxyacetamidine), expressed as TriflumizoleTriflumuronTrifluralinTriticonazoleZoxamide	
IZS Puglia e Basilicata	2,4,5-T (sum of 2,4,5-T, its salts and esters, expressed as 2,4,5-T)2,4-D (sum of 2,4-D, its salts, its esters and its conjugates, expressed as 2,4-D)2,4-DB (sum of 2,4-DB, its salts, its esters and its conjugates, expressed as 2,4-DB)2,4-Dimethylanilin2-chloro-N-(4'-chloro-5-hydroxybiphenyl-2-yl)nicotinamide (M510F01)2-phenylphenolAbamectin (sum of avermectin B1a, avermectin B1b and delta-8,9 isomer of avermectin B1a, expressed as avermectin B1a)AcephateAcetamipridAcrinathrin and its enantiomerAldicarbAldicarb (sum of Aldicarb, its sulfoxide and its sulfone, expressed as Aldicarb)Aldicarb-SulfoneAldicarb-SulfoxideAldrinAldrin and Dieldrin (Aldrin and dieldrin combined expressed as dieldrin)AmetoctradinAmitrazAmitraz (amitraz including the metabolites containing the 2,4 -dimethylaniline moiety	

	expressed as amitraz)AtrazineAzamethiphosAzinphos-ethylAzinphos-methylAzoxystrobinBenalaxyl including other mixtures of constituent isomers including benalaxyl-M (sum of isomers)BentazoneBifenoxBifenthrin (sum of isomers)Bitertanol (sum of isomers)BixafenBixafen (sum of bixafen and desmethyl-bixafen, expressed as bixafen)BoscalidBromide ionBromophosBromopropylateBromoxynil and its salts, expressed as bromoxynilBromuconazole (sum of diasteroisomers)BupirimateBuprofezinCadusafosCaptanCaptan (sum of captan and THPI, expressed as captan)CarbarylCarbendazimCarbendazim and benomyl (sum of benomyl and carbendazim expressed as carbendazim)Carbendazim and thiophanate-methyl, expressed as carbendazimChlorantraniliprole (DPX E-2Y45)ChloratesChlordane (sum of cis- and trans-chlordane)Chlordane (sum of cis- and trans-isomers and oxychlordane expressed as chlordane)Chlorethanol, 2-ChlorfenapyrChlorfenvinphosChlorfluazuronChlormequat (sum of chlormequat and its salts, expressed as chlormequat-chloride)ChlorobenzilateChlorothalonilChlorprophamChlorpyrifosChlorpyrifos-methylClofentezineClomazoneClothianidinCoumaphosCyazofamidCyfluthrin (Cyfluthrin including other mixtures of constituent isomers (sum of isomers))CymoxanilCypermethrinCypermethrin (Cypermethrin including other mixtures of constituent isomers (sum of isomers))CyproconazoleCyprodinilCyromazineDDD, o,p-DDD, p,p-DDE, o,p-DDE, p,p-DDT (sum of p,p'-DDT, o,p'-DDT, p-p'-DDE and p,p'-TDE (DDD) expressed as DDT)DDT, o,p-DDT, p,p-Deltamethrin (cis-deltamethrin)Demeton-S-MethylsulfoneDesmethyl PirimicarbDesmethyl-bixafenDiazinonDicambaDichlobenilDichlofluanidDichlorvosDiclobutrazolDicloranDicofol (sum of p, p' and o,p' isomers)DicrotophosDieldrinDiethofencarbDifenoconazoleDifenzoquatDiflubenzuronDiflufenicanDimethoateDimethomorph (sum of isomers)Dimethylaminosulfotoluidide (DMST)Dimethylphenyl-N-methylformamidine, N-2,4-DimoxystrobinDiniconazole (sum of isomers)DiphenylamineDisulfotonDisulfoton (sum of disulfoton, disulfoton sulfoxide and disulfoton sulfone expressed as disulfoton)Disulfoton-SulfonDisulfoton-SulfoxidDodineEmamectin benzoate B1a, expressed as emamectinEndosulfan (sum of alpha- and beta-isomers and endosulfan-sulphate expressed as endosulfan)Endosulfan, alpha-Endosulfan, beta-EndosulfansulfateEndrinEPNEpoxiconazoleEthephonEthionEthirimolEthoprophosEthoxyquinEthylene oxideEthylene oxide (sum of ethylene oxide and 2-chloro-ethanol expressed as ethylene oxide)EtofenproxEtoxazoleEtrimfosFamoxadoneFenamidoneFenamiphosFenamiphos (sum of fenamiphos and its sulphoxide and sulphone expressed as fenamiphos)Fenamiphos-SulfonFenamiphos-SulfoxidFenarimolFenazaquinFenbuconazole (sum of constituent enantiomers)FenhexamidFenitrothionFenoxycarbFenpropathrinFenpropidin (sum of fenpropidin and its salts, expressed as fenpropidin)Fenpropimorph (sum of isomers)FenpyrazamineFenpyroximateFensulfothionFensulfothion oxonFensulfothion-oxon-sulphoneFensulfothion-sulfonFenthionFenthion (fenthion and its oxigen analogue, their sulfoxides and sulfone expressed as parent)Fenthion oxon sulfoneFenthion-OxonFenthion-OxonsulfoxideFenthion-SulfonFenthion-SulfoxideFenvalerate (any ratio of constituent isomers (RR, SS, RS & SR) including	

	esfenvalerate)FipronilFipronil (sum fipronil + sulfone metabolite (MB46136) expressed as fipronil)Fipronil-SulfoneFluazifop-P-butylFlubendiamideFludioxonilFlufenoxuronFluopicolideFluopyramFluoxastrobinFluquinconazoleFlusilazoleFlutolanilFlutriafolFluxapyroxadFolpetFolpet (sum of folpet and phthalimide, expressed as folpet)FosetylFosetyl-Al (sum of fosetyl, phosphonic acid and their salts, expressed as fosetyl)FosthiazateGlufosinate-ammoniumGlyphosateHaloxyfop (Sum of haloxyfop, its esters, salts and conjugates expressed as haloxyfop (sum of the R- and S- isomers at any ratio))HCH, delta-HeptachlorHeptachlor (sum of heptachlor and heptachlor epoxide expressed as heptachlor)HexachlorobenzeneHexachlorocyclohexane (HCH), alpha-isomerHexachlorocyclohexane (HCH), beta-isomerHexaconazoleHexythiazoxImazalilImidaclopridIoxynil (sum of ioxynil and its salts, expressed as ioxynil)IprodioneIprovalicarbIsocarbophosIsodrinIsofenphos-methylIsoprocarbIsoprothiolaneIsoproturonIsopyrazamKresoxim-methylLindane (Gamma-isomer of hexachlorocyclohexane (HCH))LinuronLufenuron (any ratio of constituent isomers)MalaoxonMalathionMalathion (sum of malathion and malaoxon expressed as malathion)Mandipropamid (any ratio of constituent isomers)MCPA and MCPB (MCPA, MCPB including their salts, esters and conjugates expressed as MCPA)Mecoprop (sum of mecoprop-p and mecoprop expressed as mecoprop)MepanipyrimMepiquat (sum of mepiquat and its salts, expressed as mepiquat chloride)Metalaxyl and metalaxyl-M (metalaxyl including other mixtures of constituent isomers including metalaxyl-M (sum of isomers)Metconazole (sum of isomers)MethacrifosMethamidophosMethidathionMethiocarbMethiocarb (sum of methiocarb and methiocarb sulfoxide and sulfone, expressed as methiocarb)Methiocarb-SulfonMethiocarb-SulfoxidMethomylMethoxychlorMethoxychlorolefinMethoxyfenozideMetobromuronMetrafenoneMetribuzinMevinphos (sum of E- and Z-isomers)MirexMonocrotophosNitenpyramNitrofenNovaluronOmethoateOxadiargylOxadiazonOxadixylOxamylOxychlordaneOxydemeton-methylOxydemeton-methyl (sum of oxydemeton-methyl and demeton-S-methylsulfone expressed as oxydemeton-methyl)OxyfluorfenPaclobutrazol (sum of constituent isomers)Paraoxon-MethylParathionParathion-methylParathion-methyl (sum of Parathion-methyl and paraoxon-methyl expressed as Parathion-methyl)Penconazole (sum of constituent isomers)PencycuronPendimethalinPenflufenPenthiopyradPermethrin (sum of isomers)Phenothrin (phenothrin including other mixtures of constituent isomers (sum of isomers))PhenthoatePhosalonePhosmetPhosmet (phosmet and phosmet oxon expressed as phosmet)Phosmet oxonPhosphamidonPhosphonic acidPhoximPhthalimidePicolinafenPiperonyl ButoxidePirimicarbPirimicarb (sum of Pirimicarb and Desmethyl pirimicarb expressed as Pirimicarb)Pirimiphos-EthylPirimiphos-methylProcymidoneProfenofosPropamocarb (Sum of propamocarb and its salts, expressed as propamocarb)PropargitePropiconazole (sum of isomers)PropoxurPropyzamideProquinazidProsulfocarbProthioconazole: prothioconazole-desthio (sum of isomers)ProthiofosPymetrozinePyraclostrobinPyrazophosPyrethrinsPyridabenPyridalylPyrimethanilPyriofenonePyriprox	

	yfenPyroxsulamQuinalphosQuinoclamineQuinoxyfenQuintozeneResmethrin (resmethrin including other mixtures of consituent isomers (sum of isomers))RotenoneSimazineSpinetoramSpinosad (spinosad, sum of spinosyn A and spinosyn D)SpirodiclofenSpiromesifenSpiroxamine (sum of isomers)SulfotepSulfoxaflor (sum of isomers)TebuconazoleTebufenozideTebufenpyradTecnazeneTeflubenzuronTefluthrinTerbufosTerbuthylazineTetraconazoleTetradifonTetramethrinThiabendazoleThiaclopridThiamethoxamThiodicarbThiophanate-methylTHPITolclofos-methylTolylfluanidTolylfluanid (Sum of tolylfluanid and dimethylaminosulfotoluidide expressed as tolylfluanid)TriadimefonTriadimenol (any ratio of constituent isomers) Tri-allateTriazophosTrichlorfonTriclopyrTricyclazoleTrifloxystrobinTriflumuronTrifluralinTrimethyl-sulfonium cation, resulting from the use of glyphosateTriticonazoleTritosulfuronVinclozolinZoxamide	
IZS del Mezzogiorno	1-naphthylacetamide2,4-Dimethylanilin2-Phenylphenol (sum of 2-phenylphenol and its conjugates, expressed as 2-phenylphenol)Abamectin (sum of avermectin B1a, avermectin B1b and delta-8,9 isomer of avermectin B1a, expressed as avermectin B1a)AcephateAcetamipridAcetochlorAcibenzolar-S-methylAcrinathrin and its enantiomerAlachlorAldicarbAldicarb (sum of Aldicarb, its sulfoxide and its sulfone, expressed as Aldicarb)Aldicarb-SulfoneAldicarb-SulfoxideAldrinAldrin and Dieldrin (Aldrin and dieldrin combined expressed as dieldrin)AmetoctradinAmetrynAminocarbAmitrazAmitraz (amitraz including the metabolites containing the 2,4 - dimethylaniline moiety expressed as amitraz)AtrazineAtrazine, Desethyl-2-Hydroxy-AzaconazoleAzinphos-ethylAzinphos-methylAzoxystrobinBenalaxyl including other mixtures of constituent isomers including benalaxyl-M (sum of isomers)BendiocarbBenfluralinBenfuracarbBenzoximateBifenoxBifenthrin (sum of isomers)BiphenylBitertanol (sum of isomers)BixafenBoscalidBromocyclenBromophos-ethylBromopropylateBromoxynil and its salts, expressed as bromoxynilBromuconazole (sum of diasteroisomers)BupirimateBuprofezinButocarboximBYI08330 enol-glucoside (cis-3-(2,5-Dimethylphenyl)-8-methoxy-2-oxo-1-azaspiro [4.5]dec-3-en-4-yl ß-D-glucopyranoside)BYI08330-enol (cis-3-(2,5-dimethylphenyl)-4-hydroxy-8-methoxy-1-azaspiro[4.5]dec-3-en-2-one)BYI08330-monohydroxy (cis-3-(2,5-Dimethylphenyl)-4-hydroxy-8-methoxy-1-azaspiro[4.5]decan-2-one)CadusafosCarbarylCarbendazimCarbetamide (sum of carbetamide and its S isomer)CarbofuranCarbofuran, 3-hydroxyCarbophenothion-MethylCarbosulfanCarboxinChlorantraniliprole (DPX E-2Y45)Chlordane (sum of cis- and trans-chlordane)Chlordane (sum of cis- and trans-isomers and oxychlordane expressed as chlordane)ChlorfenapyrChlorfensonChlorfenvinphosChlorfluazuronChloridazonChlorobenzilateChloropropylateChlorothalonilChlorotoluronChlorprophamChlorpyrifosChlorpyrifos-methylChlorthiophoscis-PermethrinClethodimClodinafop-PropargylClofentezineClomazoneClothianidinCoumaphosCrimidineCyanophosCyazofamidCycloateCycluronCyflufenamid (sum of cyflufenamid (Z-isomer) and its E-isomer, expressed as cyflufenamid)Cyfluthrin (Cyfluthrin including other mixtures of constituent isomers (sum of isomers))CymoxanilCypermethrinCypermethrin (Cypermethrin including other mixtures of constituent isomers (sum of isomers))CyproconazoleCyprodinilCyromazineDDD, o,p-DDD, p,p-DDE, o,p-DDE,	

	p,p-DDT (sum of p,p'-DDT, o,p'-DDT, p-p'-DDE and p,p'-TDE (DDD) expressed as DDT)DDT, o,p-DDT, p,p-Deltamethrin (cis-deltamethrin)Demeton-O-sulfoxideDemeton-S-MethylDemeton-S-MethylsulfoneDesethyl-AtrazineDesmethyl PirimicarbDesmetrynDiazinonDichlobenilDichlofenthionDichlofluanidDichlorobenzamide, 2,6-Dichlorobenzophenone, 4,4`-DichlorvosDiclobutrazolDicloranDicofol (sum of p, p' and o,p' isomers)DicrotophosDieldrinDiethofencarbDiethyl-m-toluamid, N,N-DifenoconazoleDiflubenzuronDiflufenicanDimepiperateDimethoateDimethomorph (sum of isomers)Dimethylphenylformamide, 2,4-Dimethylphenyl-N-methylformamidine, N-2,4-DimoxystrobinDiniconazole (sum of isomers)DinocapDiphenylamineDipropetrynDisulfotonDisulfoton (sum of disulfoton, disulfoton sulfoxide and disulfoton sulfone expressed as disulfoton)Disulfoton-SulfonDisulfoton-SulfoxidDiuronDodineEndosulfan (sum of alpha- and beta-isomers and endosulfan-sulphate expressed as endosulfan)Endosulfan, alpha-Endosulfan, beta-EndosulfansulfateEndrinEPNEpoxiconazoleEtaconazoleEthiofencarbEthionEthirimolEthofumesateEthoprophosEtofenproxEtoxazoleEtridiazoleEtrimfosFamoxadoneFamphurFenamidoneFenamiphosFenamiphos (sum of fenamiphos and its sulphoxide and sulphone expressed as fenamiphos)Fenamiphos-SulfonFenamiphos-SulfoxidFenarimolFenazaquinFenchlorphosFenchlorphos (sum of fenchlorphos and fenchlorphos oxon expressed as fenchlorphos)Fenchlorphos-oxonFenhexamidFenitrothionFenoxycarbFenpropathrinFenpropidinFenpropidin (sum of fenpropidin and its salts, expressed as fenpropidin)Fenpropimorph (sum of isomers)FenpyrazamineFenpyroximateFensulfothionFenthionFenthion (fenthion and its oxigen analogue, their sulfoxides and sulfone expressed as parent)Fenthion oxon sulfoneFenthion-OxonFenthion-OxonsulfoxideFenthion-SulfonFenthion-SulfoxideFenuronFipronilFipronil (sum fipronil + sulfone metabolite (MB46136) expressed as fipronil)Fipronil-DesulfinylFipronil-SulfoneFlamprop-isopropylFlonicamidFluazifop-ButylFluazifop-P-butylFluazinamFlubendiamideFludioxonilFlufenacet (sum of all compounds containing the N fluorophenyl-N-isopropyl moiety expressed as flufenacet)FlufenoxuronFluopicolideFluopyramFluoxastrobin (sum of fluoxastrobin and its Z-isomer)FluquinconazoleFlusilazoleFlutolanilFlutriafolFluxapyroxadFolpet (sum of folpet and phthalimide, expressed as folpet)FonofosForchlorfenuronFormothionFosthiazateFuberidazoleFuralaxylHaloxyfop-EthoxyethylesterHaloxyfop-MethylHeptachlorHeptachlor (sum of heptachlor and heptachlor epoxide expressed as heptachlor)HeptenophosHexachlorobenzeneHexachlorocyclohexane (HCH), alpha-isomerHexachlorocyclohexane (HCH), beta-isomerHexaconazoleHexythiazoxImidaclopridIndoxacarb (sum of indoxacarb and its R enantiomer)IprodioneIprovalicarbIsocarbophosIsodrinIsofenphos-methylIsoprocarbIsoprothiolaneIsoproturonIsopyrazamIsoxabenIsoxaflutoleKresoxim-methylLenacilLindane (Gamma-isomer of hexachlorocyclohexane (HCH))LinuronLufenuron (any ratio of constituent isomers)MalaoxonMalathionMalathion (sum of malathion and malaoxon expressed as malathion)MecarbamMefenpyr-diethylMepanipyrimMepronilMetaflumizone (sum of E- and Z- isomers)Metalaxyl and metalaxyl-M (metalaxyl including other mixtures of constituent isomers including metalaxyl-M (sum of isomers)MetamitronMetazachlorMetconazole	

	(sum of isomers)MethabenzthiazuronMethacrifosMethamidophosMethidathionMethiocarbMethiocarb (sum of methiocarb and methiocarb sulfoxide and sulfone, expressed as methiocarb)Methiocarb-SulfonMethiocarb-SulfoxidMethomylMethoxychlorMethoxyfenozideMetobromuronMetolachlor and S-metolachlor (metolachlor including other mixtures of constituent isomers including S-metolachlor (sum of isomers))MetoxuronMetrafenoneMetribuzinMevinphos (sum of E- and Z-isomers)MirexMolinateMonocrotophosMonolinuronNitenpyramNitrofenNovaluronNuarimolOfuraceOmethoateOxadiargylOxadiazonOxadixylOxamylOxydemeton-methylOxydemeton-methyl (sum of oxydemeton-methyl and demeton-S-methylsulfone expressed as oxydemeton-methyl)OxyfluorfenPaclobutrazol (sum of constituent isomers)Paraoxon-MethylParathionParathion-methylParathion-methyl (sum of Parathion-methyl and paraoxon-methyl expressed as Parathion-methyl)PebulatePenconazole (sum of constituent isomers)PencycuronPendimethalinPenflufenPentachloroanisolePentachlorobenzenePenthiopyradPermethrin (sum of isomers)PhenthoatePhoratePhosalonePhosmet (phosmet and phosmet oxon expressed as phosmet)Phosmet oxonPhosphamidonPhoximPicolinafenPicoxystrobinPiperonyl ButoxidePirimicarbPirimiphos-EthylPirimiphos-methylProchlorazProcymidoneProfenofosPromecarbPrometonPrometrynPropachlor: oxalinic derivate of propachlor, expressed as propachlorPropamocarb (Sum of propamocarb and its salts, expressed as propamocarb)PropanilPropaquizafopPropaquizafopPropargitePropazinePropiconazole (sum of isomers)PropoxurPropyzamideProquinazidProsulfocarbProthioconazole: prothioconazole-desthio (sum of isomers)ProthiofosPymetrozinePyraclostrobinPyrazophosPyrethrinsPyridabenPyridalylPyrimethanilPyriofenonePyriproxyfenPyroxsulamQuinalphosQuinoclamineQuinoxyfenQuintozeneQuizalofop (sum of quizalofop, its salts, its esters (including propaquizafop) and its conjugates, expressed as quizalofop (any ratio of constituent isomers))Quizalofop-EthylResmethrin (resmethrin including other mixtures of consituent isomers (sum of isomers))RotenoneSilthiofamSimazineSimetrynSpinetoramSpinosad (spinosad, sum of spinosyn A and spinosyn D)SpirodiclofenSpiromesifenSpirotetramatSpirotetramat and its 4 metabolites BYI08330-enol, BYI08330-ketohydroxy, BYI08330-monohydroxy, and BYI08330 enol-glucoside, expressed as spirotetramatSpiroxamine (sum of isomers)SulfotepSulfoxaflor (sum of isomers)SulprofosTebuconazoleTebufenozideTebufenpyradTecnazeneTeflubenzuronTefluthrinTepraloxydimTerbufosTerbumetonTerbuthylazineTerbutrynTetraconazoleTetradifonTetramethrinThiabendazoleThiaclopridThiamethoxamThiobencarbThiodicarbThiophanate-methylTolclofos-methylTolylfluanidTolylfluanid (Sum of tolylfluanid and dimethylaminosulfotoluidide expressed as tolylfluanid)Trans-permethrinTriadimefonTri-allateTriazophosTribenuron-methylTrichlorfonTrichloronatTricyclazoleTrifloxystrobinTriflumuronTrifluralinTriticonazoleTritosulfuronVamidothionVinclozolinZoxamide	

ARPA PUGLIA	2-phenylphenolAbamectin (sum of avermectin B1a, avermectin B1b and delta-8,9 isomer of avermectin B1a, expressed as avermectin B1a)AcephateAcetamipridAclonifenAcrinathrin and its enantiomerAlachlorAldicarbAldicarb-SulfoneAldicarb-SulfoxideAldrinAllethrinAmetoctradinAmisulbromAnilazineAnthraquinoneAtrazineAzadirachtinAzinphos-ethylAzinphos-methylAzoxystrobinBenalaxyl including other mixtures of constituent isomers including benalaxyl-M (sum of isomers)BenfluralinBifenoxBifenthrin (sum of isomers)BiphenylBitertanol (sum of isomers)BixafenBoscalidBromacilBromide ionBromophosBromophos-ethylBromopropylateBromuconazole (sum of diasteroisomers)BupirimateBuprofezinButachlorCadusafosCarbarylCarbendazim and benomyl (sum of benomyl and carbendazim expressed as carbendazim)CarbophenothionCarboxinChinomethionatChlorantraniliprole (DPX E-2Y45)ChlorfenapyrChlorfensonChlorfenvinphosChlormephosChlormequat (sum of chlormequat and its salts, expressed as chlormequat-chloride)ChlorobenzilateChlorothalonilChlorprophamChlorpyrifosChlorpyrifos-methylChlorthal-dimethylChlozolinateClofentezineClomazoneClothianidinCyanofenphosCyanophosCyazofamidCyflufenamid (sum of cyflufenamid (Z-isomer) and its E-isomer, expressed as cyflufenamid)CymoxanilCypermethrin (Cypermethrin including other mixtures of constituent isomers (sum of isomers))CyproconazoleCyprodinilCyromazineDeltamethrin (cis-deltamethrin)Demeton-S-MethylsulfoneDialifosDiazinonDichlobenilDichlofenthionDichlofluanidDichlorvosDiclobutrazolDicloranDicofol (sum of p, p' and o,p' isomers)DicrotophosDieldrinDiethofencarbDifenoconazoleDiflubenzuronDiflufenicanDimethoateDimethomorph (sum of isomers)Diniconazole (sum of isomers)DinotefuranDioxathion (sum of isomers)DiphenylamineDisulfotonDisulfoton-SulfonDisulfoton-SulfoxidDitalimfosDithiocarbamates (Dithiocarbamates expressed as CS2, including Maneb, Mancozeb, Metiram, Propineb, Thiram and Ziram)Emamectin benzoate B1a, expressed as emamectinEndosulfan (sum of alpha- and beta-isomers and endosulfan-sulphate expressed as endosulfan)EndrinEPNEpoxiconazoleEPTC (ethyl dipropylthiocarbamate)EtaconazoleEthiofencarbEthionEthirimolEthoprophosEthoxyquinEtofenproxEtoxazoleEtridiazole EtrimfosFamoxadoneFenamidoneFenamiphosFenamiphos-SulfonFenamiphos-SulfoxidFenarimolFenazaquinFenbutatin oxideFenhexamidFenitrothionFenoxycarbFenpropathrinFenpropidin (sum of fenpropidin and its salts, expressed as fenpropidin)Fenpropimorph (sum of isomers)FenpyrazamineFenpyroximateFenthionFenthion oxon sulfoneFenthion-OxonFenthion-OxonsulfoxideFenthion-SulfonFenthion-SulfoxideFenvalerate (any ratio of constituent isomers (RR, SS, RS & SR) including esfenvalerate)FipronilFipronil-SulfoneFluazinamFlubendiamideFlucythrinate (flucythrinate including other mixtures of consitutent isomers (sum of isomers))FludioxonilFlufenoxuronFluopicolideFluopyramFluquinconazoleFluridoneFlusilazoleFlutolanilFlutriafolFluxapyroxadFonofosForchlorfenuronFormothionFosthiazateGlyphosateHeptachlorHeptachlor epoxideHeptenophosHexachlorobenzeneHexachlorocyclohexane (HCH), alpha-isomerHexachlorocyclohexane (HCH),	

	beta-isomerHexaconazoleHexaflumuronHexazinoneHexythiazoxImazalilImidaclopridIndoxacarb (sum of indoxacarb and its R enantiomer)IodofenphosIprodioneIprovalicarbIsocarbophosIsodrinIsofenphosIsofenphos-methylIsoprocarbIsoprothiolaneIsoproturonIsopyrazamKresoxim-methylLenacilLindane (Gamma-isomer of hexachlorocyclohexane (HCH))LinuronLufenuron (any ratio of constituent isomers)MalaoxonMalathionMCPAMCPA and MCPB (MCPA, MCPB including their salts, esters and conjugates expressed as MCPA)MCPBMecarbamMecoprop (sum of mecoprop-p and mecoprop expressed as mecoprop)MepanipyrimMepiquat (sum of mepiquat and its salts, expressed as mepiquat chloride)MepronilMetaflumizone (sum of E- and Z- isomers)Metalaxyl and metalaxyl-M (metalaxyl including other mixtures of constituent isomers including metalaxyl-M (sum of isomers)Metconazole (sum of isomers)MethacrifosMethamidophosMethidathionMethiocarbMethiocarb-SulfonMethiocarb-SulfoxidMethomylMethoxychlorMethoxyfenozideMetobromuronMetolachlor and S-metolachlor (metolachlor including other mixtures of constituent isomers including S-metolachlor (sum of isomers))MetrafenoneMetribuzinMevinphos (sum of E- and Z-isomers)MonocrotophosNaledNeburonNorflurazonNovaluronNuarimolOmethoateOxadiazonOxadixylOxamylOxydemeton-methylOxyfluorfenPaclobutrazol (sum of constituent isomers)ParaoxonParaoxon-MethylParathionParathion-methylPenconazole (sum of constituent isomers)PencycuronPendimethalinPentachloroanilinePentachlorophenolPermethrin (sum of isomers)PhenthoatePhoratePhorate-SulfonPhorate-SulfoxidPhosalonePhosmetPhosmet (phosmet and phosmet oxon expressed as phosmet)Phosmet oxonPhosphamidonPhoximPicoxystrobinPiperonyl ButoxidePirimicarbPirimiphos-EthylPirimiphos-methylProchlorazProcymidoneProfenofosPrometrynPropamocarb (Sum of propamocarb and its salts, expressed as propamocarb)PropanilPropargiteProphamPropiconazole (sum of isomers)PropoxurPropyzamideProsulfocarbProthioconazole: prothioconazole-desthio (sum of isomers)ProthiofosPymetrozinePyraclostrobinPyrazophosPyrethrinsPyridabenPyridaphenthionPyrifenoxPyrimethanilPyriproxyfenQuinalphosQuinoxyfenQuintozeneResmethrin (resmethrin including other mixtures of consituent isomers (sum of isomers))RotenoneSimazineSpinosad (spinosad, sum of spinosyn A and spinosyn D)SpirodiclofenSpiromesifenSpiroxamine (sum of isomers)SulfotepSulfoxaflor (sum of isomers)TebuconazoleTebufenozideTebufenpyradTeflubenzuronTefluthrinTemephosTerbacilTerbufosTerbuthylazineTerbutrynTetrachlorvinphosTetraconazoleTetradifonTetramethrinThiabendazoleThiaclopridThiamethoxamThiodicarbThiometonThionazinThiophanate-methylTolclofos-methylTriadimefonTriadimenol (any ratio of constituent isomers)Triallate TriazophosTrichlorfonTrichlorophenol, 2,4,6-TricyclazoleTrifloxystrobinTriflumuronTrifluralinTriticonazoleVamidothionVinclozolinZoxamide	

ARPA AOSTA	2-Phenylphenol (sum of 2-phenylphenol and its conjugates, expressed as 2-phenylphenol)Acrinathrin and its enantiomerAldrinAldrin and Dieldrin (Aldrin and dieldrin combined expressed as dieldrin)AmitrazAmitraz (amitraz including the metabolites containing the 2,4 -dimethylaniline moiety expressed as amitraz)Azinphos-methylAzoxystrobinBenalaxyl including other mixtures of constituent isomers including benalaxyl-M (sum of isomers)Bifenthrin (sum of isomers)BiphenylBitertanol (sum of isomers)BoscalidBromopropylateBupirimateBuprofezinCaptanCaptan (sum of captan and THPI, expressed as captan)CarbarylCarbendazimCarbendazim and benomyl (sum of benomyl and carbendazim expressed as carbendazim)CarbofuranCarbofuran (sum of carbofuran (including any carbofuran generated from carbosulfan, benfuracarb or furathiocarb) and 3-OH carbofuran expressed as carbofuran)ChlorfenapyrChlorothalonilChlorprophamChlorpyrifosChlorpyrifos-methylClofentezineCyflumetofenCyfluthrin (Cyfluthrin including other mixtures of constituent isomers (sum of isomers))Cypermethrin (Cypermethrin including other mixtures of constituent isomers (sum of isomers))CyproconazoleCyprodinilDeltamethrin (cis-deltamethrin)DiazinonDichlorvosDicloranDicofol (sum of p, p' and o,p' isomers)Dicofol o, p'Dicofol p, p'DieldrinDiethofencarbDifenoconazoleDimethomorph (sum of isomers)Diniconazole (sum of isomers)DiphenylamineDithiocarbamates (Dithiocarbamates expressed as CS2, including Maneb, Mancozeb, Metiram, Propineb, Thiram and Ziram)Endosulfan (sum of alpha- and beta-isomers and endosulfan-sulphate expressed as endosulfan)Endosulfan, alpha-Endosulfan, beta-EndosulfansulfateEpoxiconazoleEthionEthirimolEthoprophosEtofenproxEtoxazoleFamoxadoneFenamidoneFenamiphos Fenamiphos (sum of fenamiphos and its sulphoxide and sulphone expressed as fenamiphos)FenarimolFenazaquinFenhexamidFenitrothionFenoxycarbFenpropathrinFenpropimorph (sum of isomers)FenthionFenthion (fenthion and its oxigen analogue, their sulfoxides and sulfone expressed as parent)Fenvalerate (any ratio of constituent isomers (RR, SS, RS & SR) including esfenvalerate)FludioxonilFlufenoxuronFluopicolideFluopyramFluquinconazoleFlusilazoleFlutriafolFluxapyroxadFolpetFolpet (sum of folpet and phthalimide, expressed as folpet)FosthiazateHeptachlorHeptachlor (sum of heptachlor and heptachlor epoxide expressed as heptachlor)HexaconazoleHexythiazoxIndoxacarb (sum of indoxacarb and its R enantiomer)IprodioneIprovalicarbIsocarbophosIsoprothiolaneKresoxim-methylLambda-cyhalothrin (includes gamma-cyhalothrin) (sum of R,S and S,R isomers)LinuronMalathionMalathion (sum of malathion and malaoxon expressed as malathion)MepanipyrimMetalaxyl and metalaxyl-M (metalaxyl including other mixtures of constituent isomers including metalaxyl-M (sum of isomers)MethamidophosMethidathionMethiocarbMethiocarb (sum of methiocarb and methiocarb sulfoxide and sulfone, expressed as methiocarb)MetrafenoneMonocrotophosNicotineOmethoateOxadixylOxydemeton-methylOxydemeton-methyl (sum of oxydemeton-methyl and demeton-S-methylsulfone expressed as oxydemeton-methyl)OxyfluorfenPaclobutrazol (sum of	

	constituent isomers)Parathion-methylParathion-methyl (sum of Parathion-methyl and paraoxon-methyl expressed as Parathion-methyl)Penconazole (sum of constituent isomers)PencycuronPendimethalinPermethrin (sum of isomers)PhenthoatePhosmetPhosmet (phosmet and phosmet oxon expressed as phosmet)PirimicarbPirimiphos-methylProcymidoneProfenofosPropargitePropiconazole (sum of isomers)PropyzamideProquinazidProsulfocarbProthiofosPyraclostrobinPyridabenPyrimethanilPyriproxyfenQuinalphosQuinoxyfenQuintozeneQuintozene (sum of quintozene and pentachloro-aniline expressed as quintozene)SpirodiclofenSpiromesifenSpirotetramatSpiroxamine (sum of isomers)Sum of chlorpyrifos-methyl and desmethyl chlorpyrifos-methylTebuconazoleTebufenpyradTefluthrinTerbuthylazineTetraconazoleTetradifonTetramethrinThiabendazoleTolclofos-methylTriadimefonTriadimenol (any ratio of constituent isomers)TriazophosTrifloxystrobinTrifluralinVinclozolin	
APPA BOLZ ANO	2,4-D2,4-D (sum of 2,4-D, its salts, its esters and its conjugates, expressed as 2,4-D)2,4-Dimethylanilin2-Phenylphenol (sum of 2-phenylphenol and its conjugates, expressed as 2-phenylphenol)Abamectin (sum of avermectin B1a, avermectin B1b and delta-8,9 isomer of avermectin B1a, expressed as avermectin B1a)AcephateAcequinocylAcetamipridAcibenzolar-S-methyl (sum of acibenzolar-S-methyl and acibenzolar acid (free and conjugated), expressed as acibenzolar-S-methyl)Acrinathrin and its enantiomerAlachlorAldicarbAldicarb (sum of Aldicarb, its sulfoxide and its sulfone, expressed as Aldicarb)Aldicarb-SulfoneAldicarb-SulfoxideAldrinAldrin and Dieldrin (Aldrin and dieldrin combined expressed as dieldrin)AmetoctradinAmisulbromAmitrazAmitraz (amitraz including the metabolites containing the 2,4 -dimethylaniline moiety expressed as amitraz)AtrazineAvermectin B1aAzinphos-ethylAzinphos-methylAzoxystrobinBAC 10BAC 12BAC 14BAC 16BAC 18BAC 8Benalaxyl including other mixtures of constituent isomers including benalaxyl-M (sum of isomers)BenfuracarbBenomylBenzalkonium chloride (mixture of alkylbenzyldimethylammonium chlorides with alkyl chain lengths of C8, C10, C12, C14, C16 and C18)BenzovindiflupyrBifenazateBifenazate (sum of bifenazate plus bifenazate-diazene expressed as bifenazate)Bifenazate-diazeneBifenthrin (sum of isomers)BiphenylBitertanol (sum of isomers)BixafenBoscalidBromacilBromadioloneBromide ionBromopropylateBromuconazole (sum of diasteroisomers)BupirimateBuprofezinBYI08330 enol-glucoside (cis-3-(2,5-Dimethylphenyl)-8-methoxy-2-oxo-1-azaspiro [4.5]dec-3-en-4-yl ß-D-glucopyranoside)BYI08330-enol (cis-3-(2,5-dimethylphenyl)-4-hydroxy-8-methoxy-1-azaspiro[4.5]dec-3-en-2-one)BYI08330-ketohydroxy ((cis-3-(2,5-Dimethylphenyl)-3-hydroxy-8-methoxy-1-azaspiro[4.5]decane-2,4-dione)BYI08330-monohydroxy (cis-3-(2,5-Dimethylphenyl)-4-hydroxy-8-methoxy-1-azaspiro[4.5]decan-2-one)CadusafosCaptanCaptan (sum of captan and THPI, expressed as captan)CarbarylCarbendazimCarbendazim and benomyl (sum of benomyl and carbendazim expressed as carbendazim)Carbendazim and thiophanate-methyl, expressed as carbendazimCarbetamide (sum of carbetamide and its S isomer)CarbofuranCarbofuran (sum of carbofuran (including any carbofuran generated from carbosulfan, benfuracarb	

	or furathiocarb) and 3-OH carbofuran expressed as carbofuran)Carbofuran, 3-hydroxyCarbosulfanCarboxinCarfentrazone-ethyl (determined as Carfentrazone and expressed as Carfentrazone-ethyl)Chlorantraniliprole (DPX E-2Y45)Chlordane (sum of cis- and trans-chlordane)Chlordane (sum of cis- and trans-isomers and oxychlordane expressed as chlordane)ChlorfenapyrChlorfenvinphosChlorfluazuronChlormequat (sum of chlormequat and its salts, expressed as chlormequat-chloride)ChlorobenzilateChlorothalonilChlorprophamChlorpyrifosChlorpyrifos-methylChlorthal-dimethylChlorthiamidClofentezineClofentezine (sum of all compounds containing the 2-chlorobenzoyl moiety expressed as clofentezine)ClomazoneClothianidinCopper compounds (Copper)CoumaphosCyanazineCyantraniliproleCyazofamidCycloxydim including degradation and reaction products which can be determined as 3-(3-thianyl)glutaric acid S-dioxide (BH 517-TGSO2) and/or 3-hydroxy-3-(3-thianyl)glutaric acid S-dioxide (BH 517-5-OH-TGSO2) or methyl esters thereof, calculated in total aCyflufenamid (sum of cyflufenamid (Z-isomer) and its E-isomer, expressed as cyflufenamid)Cyfluthrin (Cyfluthrin including other mixtures of constituent isomers (sum of isomers))CymiazoleCymoxanilCypermethrin (Cypermethrin including other mixtures of constituent isomers (sum of isomers))CyproconazoleCyprodinilCyromazineDDD, p,p-DDE, p,p-DDT (sum of p,p'-DDT, o,p'-DDT, p-p'-DDE and p,p'-TDE (DDD) expressed as DDT)DDT, o,p-DDT, p,p-Deltamethrin (cis-deltamethrin)Demeton-S-MethylsulfoneDiafenthiuronDiazinonDichlofluanidDichlorvosDicloranDicofol (sum of p, p' and o,p' isomers)DicrotophosDidecyldimethylammonium chloride (mixture of alkyl-quaternary ammonium salts with alkyl chain lengths of C8, C10 and C12)DieldrinDiethofencarbDifenoconazoleDiflubenzuronDiflubenzuron (sum of Diflubenzuron and 4-chlorophenylurea expressed as Diflubenzuron)DimefoxDimethoateDimethomorph (sum of isomers)Dimethylaminosulfotoluidide (DMST)Dimethylphenylformamide, 2,4-Dimethylphenyl-N-methylformamidine, N-2,4-DimoxystrobinDiniconazole (sum of isomers)DinotefuranDiphenylamineDithianonDithiocarbamates (Dithiocarbamates expressed as CS2, including Maneb, Mancozeb, Metiram, Propineb, Thiram and Ziram)DiuronDodineEmamectin benzoate B1a, expressed as emamectinEndosulfan (sum of alpha- and beta-isomers and endosulfan-sulphate expressed as endosulfan)Endosulfan, alpha-Endosulfan, beta-EndosulfansulfateEndrinEPNEpoxiconazoleEthephonEthionEthirimolEthofumesate (Sum of ethofumesate, 2-keto–ethofumesate, open-ring-2-keto-ethofumesate and its conjugate, expressed as ethofumesate)EthoprophosEthoxyquinEtofenproxEtoxazoleFamoxadoneFenamidoneFenamiphosFenamiphos (sum of fenamiphos and its sulphoxide and sulphone expressed as fenamiphos)Fenamiphos-SulfonFenamiphos-SulfoxidFenarimolFenazaquinFenbuconazole (sum of constituent enantiomers)Fenbutatin oxideFenhexamidFenitrothionFenobucarbFenoxycarbFenpropathrinFenpropidin (sum of fenpropidin and its salts, expressed as fenpropidin)Fenpropimorph (sum of isomers)Fenpropimorph carboxylic acid (BF 421-2) expressed as fenpropimorphFenpyrazamineFenpyroximateFenthionFenthion (fenthion and its oxigen analogue, their sulfoxides and	

	sulfone expressed as parent)Fenthion oxon sulfoneFenthion-OxonFenthion-OxonsulfoxideFenthion-SulfonFenthion-SulfoxideFenvalerate (any ratio of constituent isomers (RR, SS, RS & SR) including esfenvalerate)FipronilFipronil (sum fipronil + sulfone metabolite (MB46136) expressed as fipronil)Fipronil-SulfoneFlazasulfuronFluazifopFluazifop-P (sum of all the constituent isomers of fluazifop, its esters and its conjugates, expressed as fluazifop)FluazinamFlubendiamideFludioxonilFluensulfoneFlufenacetFlufenoxuronFluopicolideFluopyramFlupyradifurone FluquinconazoleFlusilazoleFlutolanilFlutriafolFluxapyroxadFolpetFolpet (sum of folpet and phthalimide, expressed as folpet)Formetanate: Sum of formetanate and its salts expressed as formetanate(hydrochloride)FosetylFosetyl-Al (sum of fosetyl, phosphonic acid and their salts, expressed as fosetyl)FosthiazateFurathiocarbGlufosinateGlufosinate (sum of glufosinate isomers, its salts and its metabolites 3-[hydroxy(methyl)phosphinoyl]propionic acid (MPP) and N-acetyl-glufosinate (NAG), expressed as glufosinate)GlyphosateHaloxyfopHaloxyfop (Sum of haloxyfop, its esters, salts and conjugates expressed as haloxyfop (sum of the R- and S- isomers at any ratio))Heptachlor (sum of heptachlor and heptachlor epoxide expressed as heptachlor)HeptenophosHexachlorobenzeneHexachlorocyclohexane (HCH), alpha-isomerHexachlorocyclohexane (HCH), beta-isomerHexaconazoleHexazinoneHexythiazoxImazalil (any ratio of constituent isomers)ImidaclopridIndoxacarb (sum of indoxacarb and its R enantiomer)IprodioneIprovalicarbIsocarbophosIsofenphos-methylIsoprothiolaneIsoproturonIsopyrazamIsoxabenIsoxaflutoleKresoxim-methylLambda-cyhalothrin (includes gamma-cyhalothrin) (sum of R,S and S,R isomers)Lindane (Gamma-isomer of hexachlorocyclohexane (HCH))LinuronLufenuron (any ratio of constituent isomers)MalaoxonMalathionMalathion (sum of malathion and malaoxon expressed as malathion)Mandipropamid (any ratio of constituent isomers)MCPAMepanipyrimMepiquat (sum of mepiquat and its salts, expressed as mepiquat chloride)Meptyldinocap (sum of 2,4 DNOPC and 2,4 DNOP expressed as meptyldinocap)Mercury compounds (sum of mercury compounds expressed as mercury)Metaflumizone (sum of E- and Z- isomers)Metalaxyl and metalaxyl-M (metalaxyl including other mixtures of constituent isomers including metalaxyl-M (sum of isomers)MetamitronMetazachlor (Sum of metabolites 479M04, 479M08 and 479M16, expressed as metazachlor)Metconazole (sum of isomers)MethacrifosMethamidophosMethidathionMethiocarbMethiocarb (sum of methiocarb and methiocarb sulfoxide and sulfone, expressed as methiocarb)Methiocarb-SulfonMethiocarb-SulfoxidMethomylMethoxychlorMethoxyfenozideMetolachlor and S-metolachlor (metolachlor including other mixtures of constituent isomers including S-metolachlor (sum of isomers))MetrafenoneMetribuzinMolinateMonocrotophosMPP (3-Methylphosphinicopropionic acid)NAG (N-acetyl-glufosinate)NitrofenNovaluronOmethoateOryzalinOxadiazonOxadixylOxamylOxathiapiprolinOxychlordaneOxydemeton-methylOxydemeton-methyl (sum of oxydemeton-methyl and demeton-S-methylsulfone expressed as oxydemeton-methyl)OxyfluorfenPaclobutrazol (sum of constituent isomers)Paraoxon-MethylParathionParathion-methylParathion-methyl (sum of Parathion-methyl and paraoxon-methyl expressed as Parathion-methyl)Penconazole (sum of constituent isomers)PencycuronPendimethalinPenflufen (sum of	

	isomers)PentachloroanilinePentachlorophenolPenthiopyradPermethrin (sum of isomers)PhenthoatePhosalonePhosmetPhosmet (phosmet and phosmet oxon expressed as phosmet)Phosmet oxonPhosphamidonPhoximPicolinafenPirimicarbPirimiphos-EthylPirimiphos-methylProchloraz (sum of prochloraz, BTS 44595 (M201-04) and BTS 44596 (M201-03), expressed as prochloraz)ProcymidoneProfenofosPrometrynPropamocarb (Sum of propamocarb and its salts, expressed as propamocarb)PropaquizafopPropargitePropazinePropiconazole (sum of isomers)PropoxurPropyzamidePropyzamide (sum of propyzamide and all metabolites containing the 3,5-dichlorobenzoic acid fraction expressed as propyzamide)ProquinazidProsulfocarbProthioconazole: prothioconazole-desthio (sum of isomers)ProthiofosPymetrozinePyraclostrobinPyrazophosPyrethrinsPyridabenPyridalylPyrimethanilPyrimethanilPyriofenonePyriproxyfenQuinalphosQuinoclamineQuinoxyfenQuintozeneQuintozene (sum of quintozene and pentachloroaniline expressed as quintozene)Quizalofop-P-ethylResmethrin (resmethrin including other mixtures of consituent isomers (sum of isomers))RotenoneSebuthylazineSimazineSpinosad (spinosad, sum of spinosyn A and spinosyn D)Spinosyn ASpinosyn DSpirodiclofenSpiromesifenSpiroxamine (sum of isomers)Sulfoxaflor (sum of isomers)Sum of chlorpyrifos-methyl and desmethyl chlorpyrifos-methylSum of metalaxyl (sum of isomers) and its metabolites containing the 2,6-dimethylaniline moiety, expressed as metalaxylTebuconazoleTebufenozideTebufenpyradTecnazeneTeflubenzuronTefluthrinTerbuthylazineTerbutrynTetraconazoleTetradifonTetramethrinThiabendazoleThiaclopridThiamethoxamThiodicarbThiophanate-methylTHPITolclofos-methylTolfenpyradTolylfluanidTolylfluanid (Sum of tolylfluanid and dimethylaminosulfotoluidide expressed as tolylfluanid)TriadimefonTriadimenol (any ratio of constituent isomers)TriazophosTribenuron-methylTrichlorfonTricyclazoleTrifloxystrobinTriflumuronTrifluralinTriticonazoleTritosulfuronVinclozolinVinclozolin, iprodione, procymidone, sum of compounds and all metabolites containing the 3,5-dichloroaniline moiety expressed as 3,5 dichloroanilineZoxamide	
APPATRENTO	AcephateAcetamipridAclonifenAldicarb (sum of Aldicarb, its sulfoxide and its sulfone, expressed as Aldicarb)Aldicarb-SulfoneAldicarb-SulfoxideAldrinAldrin and Dieldrin (Aldrin and dieldrin combined expressed as dieldrin)AmetoctradinAtrazineAzinphos-ethylAzoxystrobinBifenazateBifenazate (sum of bifenazate plus bifenazate-diazene expressed as bifenazate)Bifenthrin (sum of isomers)BoscalidBromophosBromophos-ethylBromopropylateBupirimateBuprofezinCadusafosCarbarylCarbendazimCarbendazim and benomyl (sum of benomyl and carbendazim expressed as carbendazim)CarbophenothionCarboxinCarboxin (carboxin plus its metabolites carboxin sulfoxide and oxycarboxin (carboxin sulfone), expressed as carboxin)Chlorantraniliprole (DPX E-2Y45)ChlorfensonChlorfenvinphosChlorprophamChlorpyrifosChlorpyrifos-methylChlorthal-dimethylClofentezineClomazoneClothianidinCyanazineCyflufenamid (sum of cyflufenamid (Z-isomer) and its E-isomer, expressed as cyflufenamid)Cyfluthrin (Cyfluthrin including other mixtures of constituent isomers (sum of isomers))Cypermethrin (Cypermethrin including other mixtures of constituent isomers (sum of	

	isomers))CyproconazoleCyprodinilDDD, o,p-DDD, p,p-DDE, o,p-DDE, p,p-DDT (sum of p,p'-DDT, o,p'-DDT, p-p'-DDE and p,p'-TDE (DDD) expressed as DDT)DDT, o,p-DDT, p,p-Deltamethrin (cis-deltamethrin)DiazinonDichlofluanidDicloranDieldrinDiethofencarbDifenoconazoleDiflubenzuronDimethoateDimethomorph (sum of isomers)Diniconazole (sum of isomers)DiphenylamineDodineEndosulfan (sum of alpha- and beta-isomers and endosulfan-sulphate expressed as endosulfan)Endosulfan, alpha-Endosulfan, beta-EndosulfansulfateEndrinEPNEpoxiconazoleEthionEthoprophosEtofenproxEtoxazoleFamoxadoneFenamidoneFenamiphosFenamiphos (sum of fenamiphos and its sulphoxide and sulphone expressed as fenamiphos)Fenamiphos-SulfonFenamiphos-SulfoxidFenarimolFenazaquinFenbuconazole (sum of constituent enantiomers)FenhexamidFenitrothionFenothiocarbFenoxycarbFenpropathrinFenpropidin (sum of fenpropidin and its salts, expressed as fenpropidin)Fenpropimorph (sum of isomers)FenpyrazamineFenthionFenthion (fenthion and its oxigen analogue, their sulfoxides and sulfone expressed as parent)Fenthion-OxonsulfoxideFenthion-SulfoxideFipronilFipronil (sum fipronil + sulfone metabolite (MB46136) expressed as fipronil)Fipronil-SulfoneFlonicamidFlonicamid (sum of flonicamid, TFNA and TFNG expressed as flonicamid)FluazinamFludioxonilFluopicolideFluopyramFluquinconazoleFlusilazoleFlutolanilFlutriafolFluvalinateFluxapyroxadFonofosFosthiazateHeptachlorHeptachlor (sum of heptachlor and heptachlor epoxide expressed as heptachlor)Heptachlor epoxideHeptenophosHexachlorobenzeneHexachlorocyclohexane (HCH), alpha-isomerHexachlorocyclohexane (HCH), beta-isomerHexaconazoleImazalil (any ratio of constituent isomers)ImidaclopridIndoxacarb (sum of indoxacarb and its R enantiomer)IodofenphosIprodioneIprovalicarbIsofenphosKresoxim-methylLambda-cyhalothrin (includes gamma-cyhalothrin) (sum of R,S and S,R isomers)Lindane (Gamma-isomer of hexachlorocyclohexane (HCH))LinuronMalaoxonMalathionMalathion (sum of malathion and malaoxon expressed as malathion)MepanipyrimMetalaxyl and metalaxyl-M (metalaxyl including other mixtures of constituent isomers including metalaxyl-M (sum of isomers)MethamidophosMethidathionMethiocarbMethiocarb (sum of methiocarb and methiocarb sulfoxide and sulfone, expressed as methiocarb)Methiocarb-SulfoxidMethomylMethoxychlorMethoxyfenozideMetrafenoneMetribuzinMevinphos (sum of E- and Z-isomers)MonocrotophosMyclobutanil (sum of constituent isomers)NitrofenNitrothal-IsopropylOmethoateOxadiazonOxadixylOxamylOxydemeton-methylOxydemeton-methyl (sum of oxydemeton-methyl and demeton-S-methylsulfone expressed as oxydemeton-methyl)OxyfluorfenPaclobutrazol (sum of constituent isomers)ParathionParathion-methylPenconazole (sum of constituent isomers)PencycuronPendimethalinPermethrin (sum of isomers)PhoratePhorate (sum of phorate, its oxygen analogue and their sulfones expressed as phorate)PhosalonePhosmetPhosmet (phosmet and phosmet oxon expressed as phosmet)PirimicarbPirimiphos-EthylPirimiphos-methylProchloraz (sum of prochloraz, BTS 44595 (M201-04) and BTS 44596 (M201-03), expressed as	

	prochloraz)ProcymidoneProfenofosPrometrynPropargitePropazinePropiconazole (sum of isomers)PropyzamideProquinazidProsulfocarbProthiofosPyraclostrobinPyrazophosPyridabenPyrimethanilPyriproxyfenQuinalphosQuinoxyfenQuintozeneQuintozene (sum of quintozene and pentachloro-aniline expressed as quintozene)SimazineSpirodiclofenSpiromesifenSpirotetramatSpiroxamine (sum of isomers)TebuconazoleTebufenozideTebufenpyradTeflubenzuronTefluthrinTerbumetonTerbuthylazineTerbutrynTetrachlorvinphosTetraconazoleTetradifonThiabendazoleThiaclopridThiamethoxamThiodicarbThiophanate-methylTolclofos-methylTriadimefonTriadimenol (any ratio of constituent isomers) TriazophosTricyclazoleTrifloxystrobinTriflumuronTrifluralinTriticonazoleVinclozolinZoxamide	
ARPAVERONA	Abamectin (sum of avermectin B1a, avermectin B1b and delta-8,9 isomer of avermectin B1a, expressed as avermectin B1a)AcephateAcetamipridAcetochlorAcrinathrin and its enantiomerAldicarbAmetrynAtrazineAvermectin B1aAzinphos-ethylAzinphos-methylAzoxystrobinBenalaxyl including other mixtures of constituent isomers including benalaxyl-M (sum of isomers)Benthiavalicarb (Benthiavalicarb-isopropyl(KIF-230 R-L) and its enantiomer (KIF-230 S-D) and its diastereomers(KIF-230 S-L and KIF-230 R-D), expressed as benthiavalicarb-isopropyl)Bifenthrin (sum of isomers)BoscalidBromuconazole (sum of diasteroisomers)BupirimateBuprofezinCadusafosCarbarylCarbendazimCarbofuranChlorfenvinphosChlormequat (sum of chlormequat and its salts, expressed as chlormequat-chloride)ChlorprophamChlorpyrifosChlorpyrifos-methylClofentezineCyanazineCyazofamidCycloxydimCymoxanilCypermethrin (Cypermethrin including other mixtures of constituent isomers (sum of isomers))CyproconazoleCyprodinilDeltamethrin (cis-deltamethrin)Demeton-S-MethylDemeton-S-MethylsulfoneDiazinonDichlorvosDifenoconazoleDiflubenzuronDimethoateDimethomorph (sum of isomers)DiuronDodineEpoxiconazoleEthionEthofumesateEthoprophosFamoxadoneFenamidoneFenamiphosFenarimolFenazaquinFenhexamidFenoxycarbFenpropathrinFenpyroximateFenthionFipronilFlonicamidFluazifop-P-butylFludioxonilFlufenacetFlufenoxuronFluquinconazoleFlusilazoleFlutriafolFormetanateHaloxyfop-MethylHexaconazoleHexythiazoxImazalil (any ratio of constituent isomers)ImidaclopridIndoxacarb (sum of indoxacarb and its R enantiomer)IprovalicarbIsoproturonKresoxim-methylLinuronLufenuron (any ratio of constituent isomers)MalaoxonMalathionMecarbamMepanipyrimMepiquat (sum of mepiquat and its salts, expressed as mepiquat chloride)Metalaxyl and metalaxyl-M (metalaxyl including other mixtures of constituent isomers including metalaxyl-M (sum of isomers)Metconazole (sum of isomers)MethidathionMethiocarbMethomylMethoxyfenozideMetrafenoneMetribuzinMonocrotophosOmethoateOxadiazonOxadixylOxamylOxydemeton-methylPaclobutrazol (sum of constituent isomers)Parathion-methylPenconazole (sum of constituent isomers)PencycuronPendimethalinPermethrin (sum of isomers)PhosalonePhoximPirimicarbPirimiphos-methylProchlorazProfenofosPrometrynPropamocarb (Sum of propamocarb and its salts, expressed as propamocarb)PropaquizafopPropargitePropiconazole (sum of	

	isomers)PropyzamidePyraclostrobinPyridabenPyrimethanilPyriproxyfenQuinalphosQuinoxyfenQuizalofop-EthylSimazineSpinosad (spinosad, sum of spinosyn A and spinosyn D)Spiroxamine (sum of isomers)Sum of chlorpyrifos-methyl and desmethyl chlorpyrifos-methylTebuconazoleTebufenozideTebufenpyradTeflubenzuronTerbuthylazineTerbutrynTetraconazoleTetramethrinThiabendazoleThiaclopridThiamethoxamThiodicarbThiophanate-methylTolclofos-methylTriadimefonTriadimenol (any ratio of constituent isomers)TriazophosTrichlorfonTrifloxystrobinTriflumuronZoxamide	
ARPAUDINE	2-Phenylphenol (sum of 2-phenylphenol and its conjugates, expressed as 2-phenylphenol)AcephateAcetamipridAclonifenAcrinathrin and its enantiomerAldicarbAldicarb (sum of Aldicarb, its sulfoxide and its sulfone, expressed as Aldicarb)Aldicarb-SulfoneAldicarb-SulfoxideAldrinAldrin and Dieldrin (Aldrin and dieldrin combined expressed as dieldrin)AmetoctradinAtrazineAzinphos-ethylAzinphos-methylAzoxystrobinBenalaxyl including other mixtures of constituent isomers including benalaxyl-M (sum of isomers)BifenoxBifenthrin (sum of isomers)BiphenylBitertanol (sum of isomers)BoscalidBromopropylateBupirimateBuprofezinCarbarylCarbendazim and benomyl (sum of benomyl and carbendazim expressed as carbendazim)Carbofuran (sum of carbofuran (including any carbofuran generated from carbosulfan, benfuracarb or furathiocarb) and 3-OH carbofuran expressed as carbofuran)Chlorantraniliprole (DPX E-2Y45)Chlordane (sum of cis- and trans-chlordane)ChlorfenvinphosChlorotoluronChlorprophamChlorpyrifosChlorpyrifos-methylClofentezineClofentezine (sum of all compounds containing the 2-chlorobenzoyl moiety expressed as clofentezine)ClothianidinCyazofamidCyfluthrin (Cyfluthrin including other mixtures of constituent isomers (sum of isomers))CymoxanilCypermethrin (Cypermethrin including other mixtures of constituent isomers (sum of isomers))CyproconazoleCyprodinilDDD, p,p-DDE, p,p-DDT (sum of p,p'-DDT, o,p'-DDT, p-p'-DDE and p,p'-TDE (DDD) expressed as DDT)DDT, o,p-DDT, p,p-Deltamethrin (cis-deltamethrin)Demeton-S-MethylsulfoneDiazinonDichlorvosDicloranDieldrinDiethofencarbDifenoconazoleDiflubenzuronDimethoateDimethomorph (sum of isomers)Diniconazole (sum of isomers)DiphenylamineDiuronEndosulfan (sum of alpha- and beta-isomers and endosulfan-sulphate expressed as endosulfan)Endosulfan, alpha-Endosulfan, beta-EndosulfansulfateEndrinEpoxiconazoleEthionEthirimolEthoprophosEtofenproxEtoxazoleFamoxadoneFenamidoneFenamiphosFenamiphos (sum of fenamiphos and its sulphoxide and sulphone expressed as fenamiphos)Fenamiphos-SulfonFenamiphos-SulfoxidFenarimolFenazaquinFenbuconazole (sum of constituent enantiomers)FenhexamidFenitrothionFenoxycarbFenpropathrinFenpropidin (sum of fenpropidin and its salts, expressed as fenpropidin)Fenpropimorph (sum of isomers)FenpyroximateFenthionFenthion (fenthion and its oxigen analogue, their sulfoxides and sulfone expressed as parent)Fenthion oxon sulfoneFenthion-OxonFenthion-OxonsulfoxideFenthion-SulfonFenthion-SulfoxideFipronilFipronil (sum fipronil + sulfone metabolite (MB46136) expressed as fipronil)Fipronil-SulfoneFlubendiamideFludioxonilFlufenoxuronFluopicolideFluopyramFluquinconazoleFlusilazoleFlutolanilFlutriafol	

	FluxapyroxadFosetylFosetyl-Al (sum of fosetyl, phosphonic acid and their salts, expressed as fosetyl)FosthiazateGlufosinateGlufosinate (sum of glufosinate isomers, its salts and its metabolites 3-[hydroxy(methyl)phosphinoyl]propionic acid (MPP) and N-acetyl-glufosinate (NAG), expressed as glufosinate)GlyphosateHeptachlorHeptachlor (sum of heptachlor and heptachlor epoxide expressed as heptachlor)Heptachlor epoxideHexachlorobenzeneHexachlorocyclohexane (HCH), alpha-isomerHexachlorocyclohexane (HCH), beta-isomerHexaconazoleHexythiazoxImazalil (any ratio of constituent isomers)Imazamox (sum of imazamox and its salts, expressed as imazamox)ImidaclopridIndoxacarb (sum of indoxacarb and its R enantiomer)IprodioneIprovalicarbIsoproturonKresoxim-methylLambda-cyhalothrin (includes gamma-cyhalothrin) (sum of R,S and S,R isomers)LenacilLindane (Gamma-isomer of hexachlorocyclohexane (HCH))LinuronLufenuron (any ratio of constituent isomers)MalaoxonMalathionMalathion (sum of malathion and malaoxon expressed as malathion)Mandipropamid (any ratio of constituent isomers)Mecoprop (sum of mecoprop-p and mecoprop expressed as mecoprop)MepanipyrimMetaflumizone (sum of E- and Z- isomers)Metalaxyl and metalaxyl-M (metalaxyl including other mixtures of constituent isomers including metalaxyl-M (sum of isomers)Metconazole (sum of isomers)MethamidophosMethidathionMethiocarbMethiocarb (sum of methiocarb and methiocarb sulfoxide and sulfone, expressed as methiocarb)Methiocarb-SulfonMethiocarb-SulfoxidMethomylMethoxychlorMethoxyfenozideMetolachlor and S-metolachlor (metolachlor including other mixtures of constituent isomers including S-metolachlor (sum of isomers))MetrafenoneMetribuzinMevinphos (sum of E- and Z-isomers)MonocrotophosMonolinuronMonuronMPP (3-Methylphosphinicopropionic acid)Myclobutanil (sum of constituent isomers)NAG (N-acetyl-glufosinate)NicosulfuronOmethoateOxadiazonOxadixylOxamylOxydemeton-methylOxydemeton-methyl (sum of oxydemeton-methyl and demeton-S-methylsulfone expressed as oxydemeton-methyl)Paclobutrazol (sum of constituent isomers)ParathionParathion-methylParathion-methyl (sum of Parathion-methyl and paraoxon-methyl expressed as Parathion-methyl)Penconazole (sum of constituent isomers)PencycuronPendimethalinPermethrin (sum of isomers)PethoxamidPhosalonePhosmetPhosmet (phosmet and phosmet oxon expressed as phosmet)Phosmet oxonPhosphamidonPhosphonic acidPirimicarbPirimiphos-methylProchlorazProcymidoneProfenofosPropamocarb (Sum of propamocarb and its salts, expressed as propamocarb)PropargiteProphamPropiconazole (sum of isomers)PropoxurPropyzamideProquinazidProsulfocarbPyraclostrobinPyridabenPyrimethanilPyriproxyfenQuinoxyfenSimazineSpinosad (spinosad, sum of spinosyn A and spinosyn D)Spinosyn ASpinosyn DSpiroxamine (sum of isomers)Sum of chlorpyrifos-methyl and desmethyl chlorpyrifos-methylTebuconazoleTebufenozideTebufenpyradTeflubenzuronTefluthrinTerbuthylazineTetraconazole ThiabendazoleThiaclopridThiamethoxamThiodicarbThiophanate-methylTolclofos-methylTriadimefonTriadimenol (any ratio of constituent isomers)Tri-allateTriazophosTrifloxystrobinTriflumuronTrifluralinZoxamide	

ARPA LIGURIA	1,1-dichloro-2,2-bis(4-ethylphenyl)ethane2-Phenylphenol (sum of 2-phenylphenol and its conjugates, expressed as 2-phenylphenol)AcephateAcetamipridAcrinathrin and its enantiomerAldicarbAldicarb (sum of Aldicarb, its sulfoxide and its sulfone, expressed as Aldicarb)Aldicarb-SulfoneAldicarb-SulfoxideAldrinAldrin and Dieldrin (Aldrin and dieldrin combined expressed as dieldrin)AtrazineAzinphos-methylAzoxystrobinBenalaxyl including other mixtures of constituent isomers including benalaxyl-M (sum of isomers)Bifenazate (sum of bifenazate plus bifenazate-diazene expressed as bifenazate)Bifenthrin (sum of isomers)BiphenylBitertanol (sum of isomers)BixafenBoscalidBromophosBromophos-ethylBromopropylateBromuconazole (sum of diasteroisomers)BupirimateBuprofezinBYI08330 enol-glucoside (cis-3-(2,5-Dimethylphenyl)-8-methoxy-2-oxo-1-azaspiro [4.5]dec-3-en-4-yl ß-D-glucopyranoside)BYI08330-ketohydroxy ((cis-3-(2,5-Dimethylphenyl)-3-hydroxy-8-methoxy-1-azaspiro[4.5]decane-2,4-dione)BYI08330-monohydroxy (cis-3-(2,5-Dimethylphenyl)-4-hydroxy-8-methoxy-1-azaspiro[4.5]decan-2-one)CadusafosCarbarylCarbendazim and benomyl (sum of benomyl and carbendazim expressed as carbendazim)CarbofuranCarbofuran (sum of carbofuran (including any carbofuran generated from carbosulfan, benfuracarb or furathiocarb) and 3-OH carbofuran expressed as carbofuran)Carbofuran, 3-hydroxyChlorantraniliprole (DPX E-2Y45)Chlordane (sum of cis- and trans-chlordane)ChlorfenapyrChlorfensonChlorfenvinphosChlorobenzilateChlorothalonilChlorprophamChlorpyrifosChlorthal-dimethylcis-PermethrinClofentezineClomazoneClothianidinCyazofamidCyflufenamid (sum of cyflufenamid (Z-isomer) and its E-isomer, expressed as cyflufenamid)Cyfluthrin (Cyfluthrin including other mixtures of constituent isomers (sum of isomers))CymoxanilCypermethrin (Cypermethrin including other mixtures of constituent isomers (sum of isomers))CyproconazoleCyprodinilDDD, o,p-DDD, p,p-DDE, o,p-DDE, p,p-DDT (sum of p,p'-DDT, o,p'-DDT, p-p'-DDE and p,p'-TDE (DDD) expressed as DDT)DDT, o,p-DDT, p,p-Deltamethrin (cis-deltamethrin)Demeton-S-MethylsulfoneDesmethyl PirimicarbDiazinonDichlobenilDichlorvosDicloranDicofol (sum of p, p' and o,p' isomers)DieldrinDiethofencarbDifenoconazoleDiflufenicanDimethoateDimethomorph (sum of isomers)Dimethylaminosulfotoluidide (DMST)Diniconazole (sum of isomers)DiphenylamineEmamectin benzoate B1a, expressed as emamectinEndosulfan (sum of alpha- and beta-isomers and endosulfan-sulphate expressed as endosulfan)Endosulfan, alpha-Endosulfan, beta-EndosulfansulfateEndrinEPNEpoxiconazoleEthionEthirimolEthoprophosEtofenproxEtoxazoleFenamidoneFenamiphosFenamiphos (sum of fenamiphos and its sulphoxide and sulphone expressed as fenamiphos)Fenamiphos-SulfonFenamiphos-SulfoxidFenarimolFenazaquinFenhexamidFenitrothionFenoxycarbFenpropathrinFenpropidin (sum of fenpropidin and its salts, expressed as fenpropidin)Fenpropimorph (sum of isomers)FenpyrazamineFenpyroximateFenthionFenvalerate (any ratio of constituent isomers (RR, SS, RS & SR) including esfenvalerate)FipronilFipronil (sum fipronil + sulfone metabolite (MB46136) expressed as fipronil)Fipronil-SulfoneFlonicamid (sum of flonicamid, TFNA and TFNG expressed as flonicamid)FludioxonilFlufenoxuronFluopicolideFluopyramFluquinconazoleFlusilazoleFlutolanilFlutriafolFluxapyroxadFos	

	thiazateHCH, delta-HeptachlorHeptachlor (sum of heptachlor and heptachlor epoxide expressed as heptachlor)HexachlorobenzeneHexachlorocyclohexane (HCH), alpha-isomerHexachlorocyclohexane (HCH), beta-isomerHexaconazoleHexythiazoxImazalil (any ratio of constituent isomers)ImidaclopridIndoxacarb (sum of indoxacarb and its R enantiomer)IodofenphosIprodioneIprovalicarbIsocarbophosIsodrinIsofenphos-methylIsoprocarbIsoprothiolaneIsopyrazamKresoxim-methylLindane (Gamma-isomer of hexachlorocyclohexane (HCH))LinuronMalaoxonMalathionMalathion (sum of malathion and malaoxon expressed as malathion)MepanipyrimMetalaxyl and metalaxyl-M (metalaxyl including other mixtures of constituent isomers including metalaxyl-M (sum of isomers)Metconazole (sum of isomers)MethamidophosMethidathionMethiocarbMethiocarb (sum of methiocarb and methiocarb sulfoxide and sulfone, expressed as methiocarb)Methiocarb-SulfonMethiocarb-SulfoxidMethomylMethoxychlorMethoxyfenozideMetrafenoneMirexMonocrotophosOmethoateOxadixylOxamylOxychlordaneOxydemeton-methylOxydemeton-methyl (sum of oxydemeton-methyl and demeton-S-methylsulfone expressed as oxydemeton-methyl)OxyfluorfenPaclobutrazol (sum of constituent isomers)ParathionParathion-methyl (sum of Parathion-methyl and paraoxon-methyl expressed as Parathion-methyl)Penconazole (sum of constituent isomers)PencycuronPendimethalinPentachloroanilinePenthiopyradPermethrin (sum of isomers)PhenthoatePhosalonePhosmetPhosmet (phosmet and phosmet oxon expressed as phosmet)Phosmet oxonPhoximPirimicarbPirimiphos-methylProcymidoneProfenofosPropamocarb (Sum of propamocarb and its salts, expressed as propamocarb)PropargitePropiconazole (sum of isomers)PropyzamideProquinazidProsulfocarbProthiofosPymetrozinePyraclostrobinPyridabenPyridalylPyrifenoxPyrimethanilPyriproxyfenQuinalphosQuinoxyfenQuintozeneQuintozene (sum of quintozene and pentachloro-aniline expressed as quintozene)RotenoneSimazineSpinetoramSpinosad (spinosad, sum of spinosyn A and spinosyn D)Spinosyn ASpinosyn DSpirodiclofenSpiromesifenSpirotetramat (spirotetramat and its metabolite BYI08330-enol expressed as spirotetramat)Spiroxamine (sum of isomers)Sulfoxaflor (sum of isomers)Sum of chlorpyrifos-methyl and desmethyl chlorpyrifos-methylTebuconazoleTebufenozideTebufenpyradTefluthrinTerbuthylazineTetraconazoleTetradifonTetramethrinThiaclopridThiamethoxamThiodicarbThiophanate-methylTolclofos-methylTolfenpyradTrans-permethrinTriadimefonTriadimenol (any ratio of constituent isomers)TriazophosTrichlorfonTricyclazoleTrifloxystrobinTrifluralinTriticonazoleVinclozolinZoxamide	
ARPA FERRARA	2-Phenylphenol (sum of 2-phenylphenol and its conjugates, expressed as 2-phenylphenol)Abamectin (sum of avermectin B1a, avermectin B1b and delta-8,9 isomer of avermectin B1a, expressed as avermectin B1a)AcephateAcetamipridAcrinathrin and its enantiomerAlachlorAldicarbAldicarb (sum of Aldicarb, its sulfoxide and its sulfone, expressed as Aldicarb)Aldrin and Dieldrin (Aldrin and dieldrin combined expressed as dieldrin)AmetoctradinAmitrazAmitraz (amitraz including the metabolites containing the 2,4 -dimethylaniline moiety	

	expressed as amitraz)Avermectin B1aAzinphos-methylAzoxystrobinBAC 10BAC 12BAC 14BAC 16Benalaxyl including other mixtures of constituent isomers including benalaxyl-M (sum of isomers)BenfluralinBenzalkonium chloride (mixture of alkylbenzyldimethylammonium chlorides with alkyl chain lengths of C8, C10, C12, C14, C16 and C18)Bifenthrin (sum of isomers)BiphenylBitertanol (sum of isomers)BoscalidBromopropylateBromuconazole (sum of diasteroisomers)BupirimateBuprofezinCadusafosCaptanCaptan (sum of captan and THPI, expressed as captan)CarbarylCarbendazimCarbendazim and benomyl (sum of benomyl and carbendazim expressed as carbendazim)CarbofuranCarbofuran (sum of carbofuran (including any carbofuran generated from carbosulfan, benfuracarb or furathiocarb) and 3-OH carbofuran expressed as carbofuran)Carbofuran, 3-hydroxyChlorantraniliprole (DPX E-2Y45)ChlorfenapyrChlorfenvinphosChlorothalonilChlorprophamChlorpyrifosChlorpyrifos-methylClofentezineClofentezine (sum of all compounds containing the 2-chlorobenzoyl moiety expressed as clofentezine)ClomazoneClothianidinCyantraniliproleCyazofamidCyflufenamid (sum of cyflufenamid (Z-isomer) and its E-isomer, expressed as cyflufenamid)Cyfluthrin (Cyfluthrin including other mixtures of constituent isomers (sum of isomers))CymoxanilCypermethrin (Cypermethrin including other mixtures of constituent isomers (sum of isomers))CyproconazoleCyprodinilCyromazineDDAC-C10Deltamethrin (cis-deltamethrin)Demeton-S-MethylDemeton-S-MethylsulfoneDiazinonDichlorvosDicloranDicofol (sum of p, p' and o,p' isomers)DicrotophosDidecyldimethylammonium chloride (mixture of alkyl-quaternary ammonium salts with alkyl chain lengths of C8, C10 and C12)DiethofencarbDifenoconazoleDiflubenzuronDimethoateDimethomorph (sum of isomers)Dimethylaminosulfotoluidide (DMST)Diniconazole (sum of isomers)DiphenylamineDisulfoton (sum of disulfoton, disulfoton sulfoxide and disulfoton sulfone expressed as disulfoton)Dithiocarbamates (Dithiocarbamates expressed as CS2, including Maneb, Mancozeb, Metiram, Propineb, Thiram and Ziram)DodineEndosulfan (sum of alpha- and beta-isomers and endosulfan-sulphate expressed as endosulfan)Endosulfan, alpha-Endosulfan, beta-EndosulfansulfateEndrinEPNEpoxiconazoleEthionEthirimolEthoprophosEtofenproxEtoxazoleFamoxadoneFenamidoneFenamiphosFenamiphos (sum of fenamiphos and its sulphoxide and sulphone expressed as fenamiphos)FenarimolFenazaquinFenhexamidFenitrothionFenoxycarbFenpropathrinFenpropidin (sum of fenpropidin and its salts, expressed as fenpropidin)Fenpropimorph (sum of isomers)FenpyrazamineFenpyroximateFensulfothionFenthionFenthion (fenthion and its oxigen analogue, their sulfoxides and sulfone expressed as parent) Fenvalerate (any ratio of constituent isomers (RR, SS, RS & SR) including esfenvalerate)FipronilFipronil (sum fipronil + sulfone metabolite (MB46136) expressed as fipronil)FlonicamidFlonicamid (sum of flonicamid, TFNA and TFNG expressed as flonicamid)Fluazifop-P (sum of all the constituent isomers of fluazifop, its esters and its conjugates, expressed as fluazifop)Fluazifop-P-butylFludioxonilFlufenoxuronFluopicolideFluopyramFluquinconazoleFlusilazoleFlutolanilFlutriafolFluxapyroxadFormetanate: Sum of formetanate and its salts expressed as formetanate(hydrochloride)FormothionFosthiazateHeptachlor (sum	

	of heptachlor and heptachlor epoxide expressed as heptachlor)HexachlorobenzeneHexaconazoleHexaflumuronHexythiazoxImazalil (any ratio of constituent isomers)ImidaclopridIndoxacarb (sum of indoxacarb and its R enantiomer)IprodioneIprovalicarbIsocarbophosIsofenphos-methylIsoprocarbIsoprothiolaneKresoxim-methylLambda-cyhalothrin (includes gamma-cyhalothrin) (sum of R,S and S,R isomers)LinuronLufenuron (any ratio of constituent isomers)MalaoxonMalathionMalathion (sum of malathion and malaoxon expressed as malathion)Mandipropamid (any ratio of constituent isomers)MepanipyrimMetaflumizone (sum of E- and Z- isomers)Metalaxyl and metalaxyl-M (metalaxyl including other mixtures of constituent isomers including metalaxyl-M (sum of isomers)Metconazole (sum of isomers)MethamidophosMethidathionMethiocarbMethiocarb (sum of methiocarb and methiocarb sulfoxide and sulfone, expressed as methiocarb)MethomylMethoxychlorMethoxyfenozideMetobromuronMetolachlor and S-metolachlor (metolachlor including other mixtures of constituent isomers including S-metolachlor (sum of isomers))MetrafenoneMetribuzinMonocrotophosNicotineNitenpyramNitrofenOmethoateOxadixylOxamylOxydemeton-methylOxydemeton-methyl (sum of oxydemeton-methyl and demeton-S-methylsulfone expressed as oxydemeton-methyl)Paclobutrazol (sum of constituent isomers)Paraoxon-MethylParathionParathion-methylParathion-methyl (sum of Parathion-methyl and paraoxon-methyl expressed as Parathion-methyl)Penconazole (sum of constituent isomers)PencycuronPendimethalinPermethrin (sum of isomers)PhenthoatePhosalonePhosmetPhosmet (phosmet and phosmet oxon expressed as phosmet)PhoximPirimicarbPirimiphos-EthylPirimiphos-methylProchlorazProchloraz (sum of prochloraz, BTS 44595 (M201-04) and BTS 44596 (M201-03), expressed as prochloraz)ProcymidoneProfenofosPromecarbPropachlor: oxalinic derivate of propachlor, expressed as propachlorPropamocarb (Sum of propamocarb and its salts, expressed as propamocarb)PropargitePropiconazole (sum of isomers)PropoxurPropyzamideProquinazidProsulfocarbProthioconazole: prothioconazole-desthio (sum of isomers)ProthiofosPymetrozinePyraclostrobinPyridabenPyrimethanilPyriproxyfenQuinalphosQuinoxyfenRotenoneSpinetoramSpinosad (spinosad, sum of spinosyn A and spinosyn D)Spinosyn ASpinosyn DSpirodiclofenSpiromesifenSpiroxamine (sum of isomers)Sum of chlorpyrifos-methyl and desmethyl chlorpyrifos-methylTebuconazoleTebufenozideTebufenpyradTeflubenzuronTefluthrinTerbufosTerbuthylazineTetraconazoleTetradifonTetramethrinThiabendazoleThiaclopridThiamethoxamThiodicarbThiophanate-methylTolclofos-methylTolylfluanidTolylfluanid (Sum of tolylfluanid and dimethylaminosulfotoluidide expressed as tolylfluanid)TriadimefonTriadimenol (any ratio of constituent isomers)TriazophosTrichlorfonTricyclazoleTrifloxystrobinTriflumuronTrifluralinTriticonazoleVinclozolinZoxamide	

ARPA MARCHE	2-Phenylphenol (sum of 2-phenylphenol and its conjugates, expressed as 2-phenylphenol)AcephateAcrinathrin and its enantiomerAlachlorAldrin and Dieldrin (Aldrin and dieldrin combined expressed as dieldrin)Azinphos-ethylAzinphos-methylAzoxystrobinBenfluralinBifenthrin (sum of isomers)BiphenylBoscalidBromophos-ethylBromopropylateBupirimateBuprofezinCadusafosCaptanCaptan (sum of captan and THPI, expressed as captan)CarbarylChlordane (sum of cis- and trans-chlordane)ChlorfenapyrChlorfensonChlorfenvinphosChlorobenzilateChlorothalonilChlorprophamChlorpyrifosChlorpyrifos-methylChlozolinateClomazoneCyfluthrin (Cyfluthrin including other mixtures of constituent isomers (sum of isomers))Cypermethrin (Cypermethrin including other mixtures of constituent isomers (sum of isomers))CyproconazoleCyprodinilDDT (sum of p,p'-DDT, o,p'-DDT, p-p'-DDE and p,p'-TDE (DDD) expressed as DDT)Deltamethrin (cis-deltamethrin)DiazinonDichlorvosDicloranDicofol (sum of p, p' and o,p' isomers)DifenoconazoleDimethoateDimethomorph (sum of isomers)DiphenylamineEndosulfan (sum of alpha- and beta-isomers and endosulfan-sulphate expressed as endosulfan)EthionEthoprophosEtofenproxFenamiphos (sum of fenamiphos and its sulphoxide and sulphone expressed as fenamiphos)FenarimolFenazaquinFenhexamidFenitrothionFenpropathrinFenpropimorph (sum of isomers)Fenthion (fenthion and its oxigen analogue, their sulfoxides and sulfone expressed as parent)Fipronil (sum fipronil + sulfone metabolite (MB46136) expressed as fipronil)FludioxonilFluopicolideFluquinconazoleFlusilazoleFlutolanilFlutriafolFolpet (sum of folpet and phthalimide, expressed as folpet)HexachlorobenzeneHexachlorocyclohexane (HCH), alpha-isomerHexachlorocyclohexane (HCH), beta-isomerHexaconazoleImazalil (any ratio of constituent isomers)Indoxacarb (sum of indoxacarb and its R enantiomer)IprodioneIprovalicarbKresoxim-methylLambda-cyhalothrin (includes gamma-cyhalothrin) (sum of R,S and S,R isomers)Lindane (Gamma-isomer of hexachlorocyclohexane (HCH))LinuronMalathion (sum of malathion and malaoxon expressed as malathion)MepanipyrimMetalaxyl and metalaxyl-M (metalaxyl including other mixtures of constituent isomers including metalaxyl-M (sum of isomers)MethamidophosMethidathionMethiocarb (sum of methiocarb and methiocarb sulfoxide and sulfone, expressed as methiocarb)MonocrotophosOmethoateOxadiazonOxadixylOxyfluorfenPaclobutrazol (sum of constituent isomers)Paraoxon-MethylParathionParathion-methyl (sum of Parathion-methyl and paraoxon-methyl expressed as Parathion-methyl)Penconazole (sum of constituent isomers)PendimethalinPermethrin (sum of isomers)PhenthoatePhorate (sum of phorate, its oxygen analogue and their sulfones expressed as phorate)PhosalonePhosmet (phosmet and phosmet oxon expressed as phosmet)PirimicarbPirimiphos-methylProcymidoneProfenofosPropargitePropiconazole (sum of isomers)PropyzamidePyraclostrobinPyrazophosPyridabenPyrimethanilPyriproxyfenQuinalphosQuinoxyfenResmethrin (resmethrin including other mixtures of consituent isomers (sum of isomers))Spiroxamine (sum of isomers)TebuconazoleTebufenpyradTefluthrinTerbuthylazineTetraconazoleTetradifonThiabendazoleTolclofos-	

	methylTolylfluanid (Sum of tolylfluanid and dimethylaminosulfotoluidide expressed as tolylfluanid)TriadimefonTriadimenol (any ratio of constituent isomers)TriazophosTricyclazoleTrifloxystrobinTrifluralinVinclozolinZoxamide	
ARPA LAZIO	2-Phenylphenol (sum of 2-phenylphenol and its conjugates, expressed as 2-phenylphenol)AcephateAcetamipridAcrinathrin and its enantiomerAldicarbAldicarb (sum of Aldicarb, its sulfoxide and its sulfone, expressed as Aldicarb)Aldicarb-SulfoneAldicarb-SulfoxideAldrinAldrin and Dieldrin (Aldrin and dieldrin combined expressed as dieldrin)AmetoctradinAzinphos-methylAzoxystrobinBifenthrin (sum of isomers)BiphenylBitertanol (sum of isomers)BoscalidBromopropylateBromuconazole (sum of diasteroisomers)BupirimateBuprofezinCadusafosCaptanCarbarylCarbendazimCarbofuranCarbofuran (sum of carbofuran (including any carbofuran generated from carbosulfan, benfuracarb or furathiocarb) and 3-OH carbofuran expressed as carbofuran)Carbofuran, 3-hydroxyChlorantraniliprole (DPX E-2Y45)ChlorfenapyrChlorfenvinphosChlorothalonilChlorprophamChlorpyrifosChlorpyrifos-methylClofentezineClothianidinCyazofamidCyfluthrin (Cyfluthrin including other mixtures of constituent isomers (sum of isomers))CymoxanilCypermethrin (Cypermethrin including other mixtures of constituent isomers (sum of isomers))CyproconazoleCyprodinilCyromazineDeltamethrin (cis-deltamethrin)DiazinonDichlofluanidDichlorvosDicloranDicofol (sum of p, p' and o,p' isomers)DieldrinDiethofencarbDifenoconazoleDiflubenzuronDimethoateDimethomorph (sum of isomers)Diniconazole (sum of isomers)DiphenylamineEndosulfan (sum of alpha- and beta-isomers and endosulfan-sulphate expressed as endosulfan)Endosulfan, alpha-Endosulfan, beta-EndosulfansulfateEndrinEpoxiconazoleEthionEthirimolEthoprophosEtofenproxFamoxadoneFenamiphosFenamiphos (sum of fenamiphos and its sulphoxide and sulphone expressed as fenamiphos)Fenamiphos-SulfonFenamiphos-SulfoxidFenarimolFenazaquinFenhexamidFenitrothionFenoxycarbFenpropathrinFenpropidin (sum of fenpropidin and its salts, expressed as fenpropidin)Fenpropimorph (sum of isomers)FensulfothionFenthionFenthion (fenthion and its oxigen analogue, their sulfoxides and sulfone expressed as parent)Fenthion-SulfonFenthion-SulfoxideFipronilFipronil (sum fipronil + sulfone metabolite (MB46136) expressed as fipronil)Fipronil-DesulfinylFipronil-SulfoneFlonicamidFluazifop-P-butylFlubendiamideFludioxonilFlufenoxuronFluopyramFluquinconazoleFlusilazoleFlutriafolFolpetFormetanate: Sum of formetanate and its salts expressed as formetanate(hydrochloride)FosthiazateHaloxyfop-MethylHeptachlorHeptachlor (sum of heptachlor and heptachlor epoxide expressed as heptachlor)HexachlorobenzeneHexaconazoleHexythiazoxImidaclopridIndoxacarb (sum of indoxacarb and its R enantiomer)IprodioneIprovalicarbIsocarbophosKresoxim-methylLambda-cyhalothrin (includes gamma-cyhalothrin) (sum of R,S and S,R isomers)LinuronLufenuron (any ratio of constituent isomers)MalaoxonMalathionMalathion (sum of malathion and malaoxon expressed as malathion)MepanipyrimMetalaxyl and metalaxyl-M (metalaxyl including other	

	mixtures of constituent isomers including metalaxyl-M (sum of isomers)Metconazole (sum of isomers)MethamidophosMethidathionMethiocarbMethiocarb (sum of methiocarb and methiocarb sulfoxide and sulfone, expressed as methiocarb)Methiocarb-SulfonMethiocarb-SulfoxidMethomylMethoxyfenozideMonocrotophosMyclobutanil (sum of constituent isomers)NitrofenOmethoateOxadixylOxamylPaclobutrazol (sum of constituent isomers)Paraoxon-MethylParathionParathion-methylParathion-methyl (sum of Parathion-methyl and paraoxon-methyl expressed as Parathion-methyl)Penconazole (sum of constituent isomers)PencycuronPendimethalinPermethrin (sum of isomers)PhenthoatePhosalonePhosmet (phosmet and phosmet oxon expressed as phosmet)PhoximPirimicarbPirimiphos-methylProchlorazProcymidoneProfenofosPropamocarb (Sum of propamocarb and its salts, expressed as propamocarb)PropargitePropiconazole (sum of isomers)PropyzamideProsulfocarbProthioconazole: prothioconazole-desthio (sum of isomers)PyraclostrobinPyridabenPyrimethanilPyriproxyfenQuinoxyfenSpinosad (spinosad, sum of spinosyn A and spinosyn D)SpirodiclofenSpiromesifenSpiroxamine (sum of isomers)Sum of chlorpyrifos-methyl and desmethyl chlorpyrifos-methylTebuconazoleTebufenozideTebufenpyradTeflubenzuronTefluthrinTerbufos SulfoneTerbuthylazineTetraconazoleTetradifonThiabendazoleThiaclopridThiamethoxamThiophanate-EthylTolclofos-methylTolylfluanid (Sum of tolylfluanid and dimethylaminosulfotoluidide expressed as tolylfluanid)TriadimefonTriadimenol (any ratio of constituent isomers)TriazophosTrifloxystrobinTriflumuronVinclozolin	
ARPAC NAPOLI	1,1-dichloro-2,2-bis(4-ethylphenyl)ethane2-Phenylphenol (sum of 2-phenylphenol and its conjugates, expressed as 2-phenylphenol)Acrinathrin and its enantiomerAldrinAldrin and Dieldrin (Aldrin and dieldrin combined expressed as dieldrin)AtrazineAzinphos-methylAzoxystrobinBenalaxyl including other mixtures of constituent isomers including benalaxyl-M (sum of isomers)BenfluralinBifenthrin (sum of isomers)BiphenylBitertanol (sum of isomers)BoscalidBromopropylateBupirimateBuprofezinCarbarylChlorothalonilChlorprophamChlorpyrifosChlorpyrifos-methylCyfluthrin (Cyfluthrin including other mixtures of constituent isomers (sum of isomers))Cypermethrin (Cypermethrin including other mixtures of constituent isomers (sum of isomers))CyprodinilDDD, o,p-DDD, p,p-DDE, o,p-DDE, p,p-DDT (sum of p,p'-DDT, o,p'-DDT, p-p'-DDE and p,p'-TDE (DDD) expressed as DDT)DDT, o,p-DDT, p,p-Deltamethrin (cis-deltamethrin)DiazinonDichlobenilDichlorvosDicloranDieldrinDimethoateDiphenylamineDisulfotonEndosulfan (sum of alpha- and beta-isomers and endosulfan-sulphate expressed as endosulfan)Endosulfan, alpha-Endosulfan, beta-EndosulfansulfateEndrinEthoprophosFenitrothionFenpropathrinFenthionHeptenophosImazalil (any ratio of constituent isomers)IprodioneIsodrinKresoxim-methylLambda-cyhalothrin (includes gamma-cyhalothrin) (sum of R,S and S,R isomers)MalathionMecarbamMetalaxyl and metalaxyl-M (metalaxyl including other mixtures of constituent isomers including metalaxyl-M (sum of isomers)MethidathionMetribuzinParathionParathion-methylPenconazole (sum of constituent isomers)PendimethalinPermethrin (sum of isomers)PhosalonePirimicarbPirimiphos-	

	methylProchlorazProcymidoneProfenofosPromecarbPrometrynPropiconazole (sum of isomers)PyraclostrobinPyrazophosPyridaphenthionPyrimethanilQuinalphosSimazineTebuconazoleTerbuthylazineTerbuthylazine, Desethyl-TetradifonThiabendazoleTolclofos-methylTolylfluanidTriadimefonTriazophosTrichlorfonTrifloxystrobinVinclozolin	

TABELLA 8: Elenco dei laboratori identificati come "classe A" a seguito degli esiti dei Proficiency Tests Europei (EUPTs) di settore degli anni 2019- 2020-2021

Laboratorio	Alimenti di origine vegetale (EUPT FV-21 CAVOLO ROSSO)	Alimenti di origine vegetale (EUPT FV 22 CIPOLLE)	Alimenti di origine vegetale (EUPT FV 23 MELANZANE)	Alimenti di origine animale (EUPT AO-14 FEGATO BOVINO)	Alimenti di origine animale (EUPT AO-15 OLIO DI COLZA)	Alimenti di origine animale EUPT AO-16 (uova-)	Cereali (EUPT CF 13 segale)	Cereali (EUPT CF 14 RISO)	Cereali (EUPT CF 15 Rapeseed cake – colza
	2019	2020	2021	2019	2020	2021	2019	2020	2021
APPA Bolzano	X	X	X	X	X	X	X	X	X
IZS Abruzzo e Molise	X	X	X	X	X	X	X	X	X
ATS MILANO		X	X					X	X
ARPA MARCHE		X							
IZS Lazio e Toscana (Roma)				X		X			X
IZS Lombardia ed Emilia Romagna				X		X	X		
Arpa LaSpezia	X								
ARPA Puglia Bari	X	X	X				X		
IZS Piemonte - Liguria - Valle d'Aosta (sezioni di CN e GE)	X	X		X					
ARPA Lazio	X	X	X					X	X
IZS Umbria e Marche	X			X		X			

TABELLA 9: Modello per la trasmissione delle misure adottate

Parte a

Misure	Action taken code	Alimento	Valore riscontrato	Numero progressivo del campione	Cause del superamento
Notifica di allerta eu	R				
Notifica di allerta IT					
Sanzioni amministrative	A				
Controlli intensificati prima del rilascio	B				
Richiamo del lotto dal mercato	S				
Distruzione animale o prodotto non conforme	E				
Successiva azione dovuta a residui di pesticidi rilevati in campioni EU che non sono approvati per l'uso del territorio dell'Unione europea	C				
Diniego di aiuti comunitari	D				
Successiva azione dovuta a residui rilevati a livello nazionale che non sono autorizzati nel paese	G				

Misure	Action taken code	Alimento	Valore riscon-trato	Numero pro-gressivo del campione	Cause del su-peramento
Successiva azione dovuta a pesticidi riscontrati nei prodotti biologici	P				
Successivo sospetto campionamento di prodotti simili , campioni dello stesso produttore o della stessa origine (Follow-up (suspect) sampling)	F				
Successiva ispezione	I				
Lotto non rilasciato sul mercato	M				
Nessuna Azione	N				
Restrizione dei movimenti	V				
Prescrizioni	W				

Misure	Action taken code	Alimento	Valore riscontrato	Numero progressivo del campione	Cause del superamento
Animali e prodotti classificati come non sicuri per il consumo umano	U				
Sanzione penale	O3				
Altre azioni	O				

Parte b

Elenco delle possibili cause da utilizzare per compilare la tabella 9 nella quinta colonna
GAP Non rispettata: Uso di pesticida non autorizzato in EU)
GAP Non rispettata: Uso di pesticida non autorizzato su colture specifiche
GAP Non rispettata: Uso di pesticida autorizzato, ma dosaggio di applicazione, numero di trattamenti, metodo di applicazione o tempo di carenza non rispettato
Uso di pesticida in accordo alla GAP :ma bassa degradazione del residuo
Contaminazione crociata : trattamenti con dispersione a spruzzo o altro tipo di contaminazione
Contaminazione da precedente uso di un pesticida: assorbimento di residui dal suolo (es. pesticida persistente usato in passato)
Residuo risultante da altre origini di PPP (e.g. biocida, residui veterinari, Bio Fuel)
Ritrovamento natural (e.g. dithiocarbamates in turnips)
Cambi di MRL

Elenco delle possibili cause da utilizzare per compilare la tabella 9 nella quinta colonna
Uso di pesticidi su un alimento importato da paesi terzi da cui nessuna tolleranza all'importazione è stabilita

Tabella 10

Codifica foodex 2 da riportare sui verbali di prelievo per gli alimenti del piano europeo

Nome Alimento	**Codice foodex 2**	progType
arance	**A0DZB**	K018A
cavolfiori	**A0DLL**	K018A
fagioli secchi	**A012S**	K018A
riso	**A001D**	K018A
formula per neonati	**A0EQM**	K018A
formula di proseguimento	**A0EQL**	K018A
pere	**A01DP**	K018A
Kiwi (green, red, yellow)	**A0DRG**	K018A
patate	**A00ZT**	K018A
carote	**A0DPB**	K018A
cipolle	**A00HC**	K018A
segale	**A0D9R**	K018A
segale farina	**A003M**	K018A
fegato bovino	**A01XF**	K018A
grasso di pollame	**A01VQ**	K018A
grasso di pollame dalla carne	**A01SN**	K018A
arance congelate	**A0DZB** #F28.A07KQ	K018A
cavolfiori congelati	**A0DLL**#F28.A07KQ	K018A
fagioli secchi congelati	**A012S**#F28.A07KQ	K018A
pere congelate	**A01DP** #F28.A07KQ	K018A
Kiwi congelati	**A0DRG**#F28.A07KQ	K018A
patate congelate	**A00ZT** #F28.A07KQ	K018A
carote congelate	**A0DPB**#F28.A07KQ	K018A
cipolle congelate	**A00HC** #F28.A07KQ	K018A
fegato bovino congelato	A01XF#F28.A07KQ	K018A
grasso di pollame congelato	A01VQ#F28.A07KQ	K018A
grasso di pollame congelato dalla carne	**A01SN#F28.A07KQ**	K018A
arance - refrigerate	**A0DZB** #F28.A07KP	K018A
cavolfiori- refrigerati	**A0DLL**#F28.A07KP	K018A

fagioli secchi refrigerati	**A012S**#F28.A07KP	K018A
pere refrigerate	**A01DP**#F28.A07KP	K018A
Kiwi (green, red, yellow) refrigerati	**A0DRG**#F28.A07KP	K018A
patate refrigerate	**A00ZT**#F28.A07KP	K018A
carote refrigerate	**A0DPB**#F28.A07KP	K018A
cipolle refrigerate	**A00HC**#F28.A07KP	K018A
fegato bovino refrigerato	A01XF#F28.A07KP	K018A
grasso di pollame refrigerato	A01VQ#F28.A07KP	K018A
grasso di pollame congelato dalla carne	A01SN#F28.A07KP	K018A
arance biologiche	A0DZB#F21.A07SE	K018A
cavolfiori biologici	A0DLL#F21.A07SE	K018A
fagioli secchi biologici	A012S#F21.A07SE	K018A
riso biologico	**A001D**#F21.A07SE	K018A
formula per neonati biologica	A0EQM#F21.A07SE	K018A
formula di proseguimento biologica	A0EQL#F21.A07SE	K018A
pere- biologiche	**A01DP** #F21.A07SE	K018A
Kiwi (green, red, yellow)- biologici	A0DRG#F21.A07SE	K018A
patate biologiche	**A00ZT** #F21.A07SE	K018A
carote biologiche	A0DPB#F21.A07SE	K018A
cipolle biologiche	A00HC#F21.A07SE	K018A
segale biologica	**A0D9R**#F21.A07SE	K018A
segale farina biologica	A003M#F21.A07SE	K018A
fegato bovino biologico	A01XF#F21.A07SE	K018A
grasso di pollame biologico	A01VQ#F21.A07SE	K018A
grasso di pollame biologico dalla carne	A01SN#F21.A07SE	K018A
arance congelate biologiche	**A0DZB** #F28.A07KQ$F21.A07SE	K018A
cavolfiori congelati biologiche	**A0DLL**#F28.A07KQ$F21.A07SE	K018A
fagioli secchi congelati biologici	**A012S**#F28.A07KQ$F21.A07SE	K018A
pere congelati biologiche	**A01DP** #F28.A07KQ$F21.A07SE	K018A

Kiwi congelati biologici	A0DRG #F28.A07KQ$F21.A07SE	K018A
patate congelate biologiche	**A00ZT** #F28.A07KQ$F21.A07SE	K018A
carote congelate biologiche	**A0DPB**#F28.A07KQ$F21.A07SE	K018A
cipolle congelate biologiche	**A00HC** #F28.A07KQ$F21.A07SE	K018A
fegato bovino congelato biologico	A01XF#F28.A07KQ$F21.A07SE	K018A
grasso di pollame congelato biologico	A01VQ#F28.A07KQ$F21.A07SE	K018A
grasso di pollame congelato biologico dalla carne	A01SN#F28.A07KQ$F21.A07SE	K018A
arance - refrigerate- biologiche	**A0DZB** #F28.A07KP$F21.A07SE	K018A
cavolfiori- refrigerati biologici	**A0DLL**#F28.A07KP$F21.A07SE	K018A
fagioli secchi refrigerati biologici	**A012S**#F28.A07KP$F21.A07SE	K018A
pere refrigerate biologiche	**A01DP**#F28.A07KP$F21.A07SE	K018A
Kiwi (green, red, yellow) refrigerati biologici	**A0DRG**#F28.A07KP$F21.A07SE	K018A
patate refrigerate biologiche	**A00ZT**#F28.A07KP$F21.A07SE	K018A
carote refrigerate biologiche	**A0DPB**#F28.A07KP$F21.A07SE	K018A
cipolle refrigerate biologiche	**A00HC**#F28.A07KP$F21.A07SE	K018A
fegato bovino refrigerato biologico	A01XF#F28.A07KP$F21.A07SE	K018A
grasso di pollame refrigerato biologico	A01VQ#F28.A07KP$F21.A07SE	K018A
grasso di pollame refrigerato biologico dalla carne	A01SN#F28.A07KP$F21.A07SE	K018A

EUROPEAN COMMISSION
DIRECTORATE-GENERAL FOR HEALTH AND FOOD SAFETY

Food and Feed Safety, Innovation
Pesticides and biocides

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Working document on pesticides to be considered for inclusion in the national control programmes to ensure compliance with maximum residue levels of pesticides residues in and on food of plant and animal origin.

Contents

1. Scope

This document serves the dual purpose of:

- ✓ Proposing pesticides to be included in the EU Multi-Annual Control Programme (EU MACP).
- ✓ Recommending pesticides to be included in the National Control Programmes (NCPs) of the Member States on a voluntary basis.

The assessment of active substances is based on:

- ✓ occurrence data originating from EFSA's annual reporting data,
- ✓ toxicological reference data found on the EU MRL database and
- ✓ analytical coverage of the EU laboratories which are assessed via an annual survey conducted by the EURL-SRM.

This document is revised each year following the Working Group Meeting of Experts on monitoring of pesticide residues in/on food and is endorsed by the Standing Committee on Plants, Animals, Food and Feed, section pesticides residues (SC PAFF phytopharmaceuticals – section residues) and serves as a preliminary evaluation of the pesticides included on the annual European Commission Regulation.

2. Introduction

On 4 October 2013 an Expert Group Meeting on Pesticides Residues Monitoring was held in Brussels. In this meeting it was agreed not to include voluntary analyses in the Regulation concerning the EU MACP for 2015, 2016 and 2017. However, it was deemed necessary to already highlight in advance certain pesticides, which following the assessment detailed in **Chapter 3**, could be considered for inclusion in the Regulation for the EU MACP. These pesticides are listed in **Chapter 4** of this document and can be, on a voluntary basis, taken up in the National Control Programmes of the Member States during the assessment period. After an evaluation of the analytical coverage by the EU laboratories and the monitoring data gathered under the National Control Programmes, their inclusion or non-inclusion in the EU MACP is considered.

The document is completed by a series of Annexes as detailed below:

- ✓ **Annex I** includes pesticides for which monitoring data are required for addressing specific risk management questions.
- ✓ **Annex II** lists pesticides for which support is needed from the EURLs.
- ✓ Pesticides that are of interest to EFSA for cumulative risk assessment and which are not taken up in the chapter 4 of this document or the MACP, are included in **Annex III** to this document.
- ✓ **Annex IV** includes active substances for which occurrence data indicated very few findings and, thus, can include substances coming from the Chapter 4 assessment or even from the list included in the EU MACP.
- ✓ **Annex V** details the assessment methodology of the active substances.
- ✓ **Annex VI** includes the form of proposals of pesticides to be assessed by Member States or EURLs.
- ✓ Substances of interest to be analysed in honey under NCPs are listed in **Annex VII**.
- ✓ Commodities of interest to be analysed under the NCPs are listed in **Annex VIII.**
- ✓ Substances that have been moved from Chapter 4 of this document into the EU MACP are listed in **Annex IX**.

Residue Definitions:

All pesticides mentioned in this document are recommended to be analysed for their **full and legal residue definition** according to Reg. (EC) No 396/2005. In order to avoid that this document would be outdated due to future changes in residue definitions, only the general name of the residue definition is mentioned. For the full details of each residue definition, as well as specific residue definitions for certain commodities, reference is made to the most recent version of Reg. (EC) No 396/2005.

3. Categorisation, prioritisation and assessment

During the SC PAFF of 12-13 June 2014 the Member States were requested to take a position on the approach for categorisation and prioritisation of the substances that are taken up in this document. A majority of the Member States was in favour of an approach in which the pesticides are divided into specific categories. Based on a limited set of criteria each pesticide is attributed a priority and a time line for evaluation of inclusion or non-inclusion in the MACP.

3.1. Categorisation

The pesticides in Chapter 4 are split up into the following *categories*:

- ✓ Frequent detections, MRL exceedances or RASFF notifications.
  - Based on the occurrence data of the 3 previous years (starting from the year with the latest data available), candidates for inclusion in this WD are substances with (a) MRL exceedances and/or (b) high rate of findings (>=0.5% of samples) for 3 consecutive years (for animal commodities where findings are less, a rate of >=0.01% can be taken into account).
  - Based on the RASFF notifications of 3 years, the 15 substances with the highest frequency of occurrence in the alerts are examined for findings for 3 years. The above procedure is followed.
- ✓ Recent approvals. Substances approved during the time interval between two consecutive working group meetings.
- ✓ Art. 12 priority list.
- ✓ High toxicity.

3.2. Prioritisation

The substances included in Chapter 4 of this document are prioritised based on the **type of analytical method**.

- ✓ MRM method: priority 1
- ✓ MRM/ SRM or SRM method: priority 2
- ✓ In case **no standards and/or analytical method** are available for substances that qualify to the categories mentioned under chapter 3.1, the substances are **not included in chapter 4**. They are however taken up in Annex II to this document that lists substances for which support from the EURLs is requested.

A further refinement of the priority is based on toxicity.

- ✓ if ADI ≤ 0.1 mg/kg bw/day **or** ARfD ≤ 0.1 mg/kg bw, then priority A is assigned.
- ✓ if ADI > 0.1 mg/kg bw/day **and** ARfD > 0.1 mg/kg bw, then priority B is assigned.

Based on the above, *prioritization* is illustrated in the following table:

Table 1. Prioritization Matrix of Active Substances

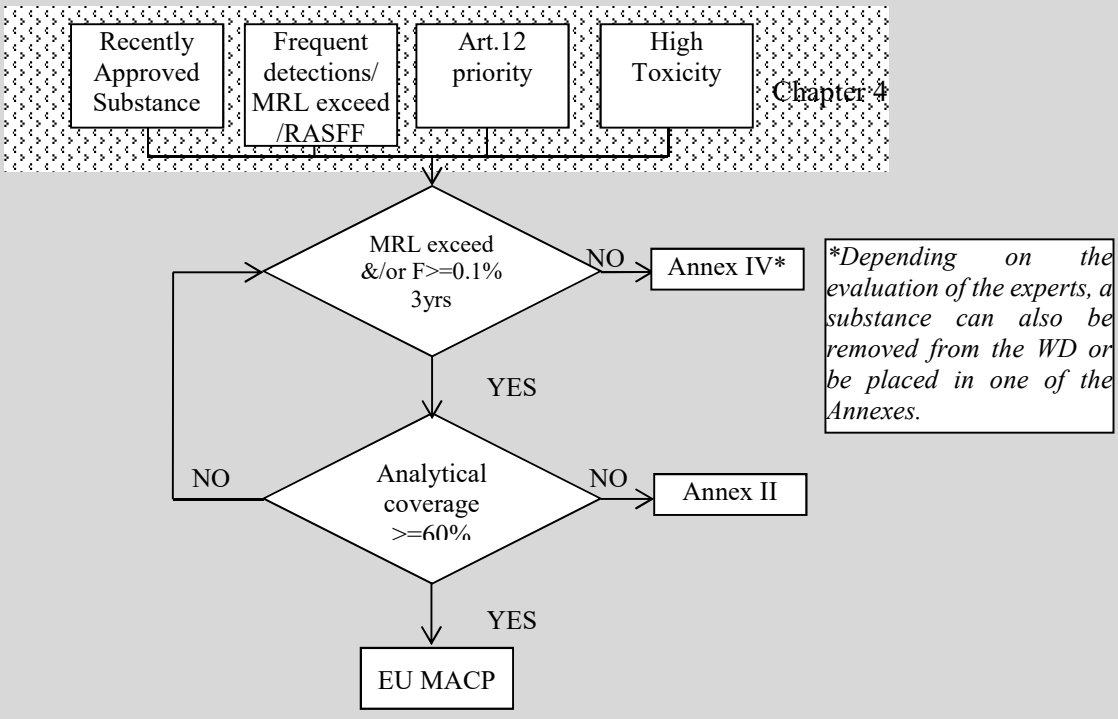
Toxicity \ Analytical Coverage		Priority 1	Priority 2
		MRM	MRM/SRM or SRM
Priority A	ADI ≤ 0.1 mg/kg bw/day **or** ARfD ≤ 0.1 mg/kg bw	1A	2A
Priority B	ADI > 0.1 mg/kg bw/day **and** ARfD > 0.1 mg/kg bw **or** No Toxicological Reference Values Available	1B	2B

- ✓ For pesticides with priorities 1A and 1B, the evaluation will be done after 1 year, for categories 2A and 2B after 2 years.
- ✓ The sub-priorities A and B, which are linked to the toxicity, don't affect the evaluation timeline and are only for information to the MS, in case they want guidance on which substances should be prioritised.
- ✓ In case of RASFF notifications it is possible to accord a higher priority to certain specific substances after discussions in the expert group.

3.3. Assessment

As illustrated in **Figure 1**, frequently detected substances as defined in 3.1, recently approved substances, substances identified as top-15 in annual RASFF findings, high toxicity substances and Art.12 priority substances can be included in Chapter 4 of this document based on the discussion of the experts during the working group. Based on the datasets of 3 years preceding EFSA's latest published annual report, in the case a Chapter 4 active substance indicates MRL exceedances and/or findings of more than 0.1% of the analysed samples for 3 years consecutively, and if there is good (>=60%) analytical coverage across EU laboratories, then that active substance is eligible for addition on the EU MACP depending on the experts' evaluation. In case analytical coverage is <60% then the substance is placed in Annex II for support from the EURLs and is re-evaluated in 1 or 2 years depending on the prioritisation factor of that substance (1yr for 1A/1B, 2yrs for 2A/2B).

Figure 1. Assessment Flow Chart



4. Pesticides to be considered for inclusion in National Control Programmes (NCP)

The substances are listed in alphabetical order, separately for commodities of plant origin and of animal origin and per category. Substances newly added to this version of the WD are indicated in white background, while older substances that were evaluated during the 2022 WG are in grey.

4.1. Pesticides to be considered for analysis in products of plant origin (PO)

4.1.1. Frequent detections[1], MRL exceedances or RASFF notifications

1,4-Dimethylnaphthalene – PO *Added: 10/2022* Toxicity: ADI = 0.1 mg/kg bw/day, ARfD N/A Method: MRM, Priority: 1A Evaluation: after 1 year (10/2023) ✓ 1.26% findings (0.00% MRL exceedances) EFSA 2018 ✓ 0.11% findings (0.02% MRL exceedances) EFSA 2019 ✓ 0.68% findings (0.05% MRL exceedances) EFSA 2020 No data on analytical coverage. Mainly found in onions and potatoes but findings have also been reported in various (especially leafy) vegetables. The compound has been reported to occur naturally in some plants. It is also contained, together with other isomers, in mineral oils that are used as adjuvants in pesticide formulations. As mineral oils contain various dimethylnaphthalene isomers, a characteristic peak pattern appears in chromatograms. Where analytical data indicate mineral oils as the likely source of 1,4- dimethylnaphthalene, this information should be provided to enforcement authorities in the case of MRL-exceedances.	4-CPA (4- chlorophenoxyaceticacid) (Not approved) – PO *Added: 10/2018* Toxicity: no toxicological reference values available Method: MRM/SRM, Priority: 2B Evaluation: after 2 years (10/2020) →10/2021→ 10/2022)→(10/2023) ✓ 0.03% findings (0.02% MRL exceedances) EFSA 2014 ✓ 0.03% findings (0.02% MRL exceedances) EFSA 2015 ✓ 0.02% findings (0.03% MRL exceedances) EFSA 2016 ✓ 0.02% findings (0.03% MRL exceedances) EFSA 2017 ✓ 0.03% findings (0.04% MRL exceedances) EFSA 2018 ✓ 0.03% findings (0.04% MRL exceedances) EFSA 2019 ✓ 0.00% findings (0.01% MRL exceedances) EFSA 2020 19% labs and 39% MS analysed full RD in 2019. 21% labs and 39% MS analyse full RD in 2020. 27% labs and 39% MS analyse full RD in 2021. **⇒ Analytical coverage poor** **⇒ Keep in Chapter 4 and Annex II** Especially relevant in zucchini, aubergines, melons, peanuts, soya and soya sprouts. MRL violations found in aubergines, many findings reported in peanuts in 2019.
Azadirachtin – PO *Added: 10/2021* Toxicity: ADI = 0.1 mg/kg bw/day, ARfD=0.75mg/kg bw Method: MRM/ Priority: 1A Evaluation: after 1 year (10/2022) →(10/2023) ✓ 0.09% findings (0.00% MRL exceedances) EFSA 2017 ✓ 0.12% findings (0.00% MRL exceedances) EFSA 2018 ✓ 0.19% findings (0.00% MRL exceedances) EFSA 2019 ✓ 0.08% findings (0.01% MRL exceedances) EFSA 2020 29% labs and 50% MS analyse full RD in 2021 **⇒ Analytical coverage poor** **⇒ Keep in Chapter 4 and add in Annex II** Mainly found on apples, lettuces, strawberries, sweet peppers, green beans, aubergines, oranges, peaches and tomatoes.	Bifenazate – PO *Added: 10/2019* Toxicity: ADI = 0.01 mg/kg bw/day, ARfD NA Method: MRM/SRM, Priority: 2A Evaluation: after 2 years (10/2021)→(10/2022)→(10/2023) ✓ 0.24% findings (0.00% MRL exceedances) EFSA 2015 ✓ 0.30% findings (0.00% MRL exceedances) EFSA 2016 ✓ 0.56% findings (0.00% MRL exceedances) EFSA 2017 ✓ 0.56% findings (0.00% MRL exceedances) EFSA 2018 ✓ 0.54% findings (0.00% MRL exceedances) EFSA 2019 ✓ 0.48% findings (0.00% MRL exceedances) EFSA 2020 7% labs and 23% MS analysed full RD in 2016 54% labs and 71% MS analysed full RD in 2017 10% labs and 25% MS analysed full RD in 2018 20% labs and 62% MS analysed full RD in 2019 23% labs and 50% MS analysed full RD in 2020 31% labs and 54% MS analysed full RD in 2021 **⇒ Analytical coverage poor** **⇒ Keep in Chapter 4 and Annex II** Occurs in oxidised or reduced form, depending on the commodity. An analytical method has been developed by the EURL-SRM and is published on EURL website (http://www.eurl-pesticides.eu/userfiles/file/ EurlSRM/ meth_Bifenazate_EurlSRM.pdf). Especially relevant for aubergines, green beans, sweet pepper, various berries, tomatoes, grapes

[1] SRM-compounds are typically analysed on specific commodities so their detection frequencies are typically higher than if they would have been analysed randomly.

Chloridazon (Not Approved) – PO
Added: 10/2019

Toxicity: ADI = 0.1 mg/kg bw/day, ARfD NA
Method: SRM, Priority: 2A
Evaluation: after 2 years (10/2021)→(10/2022))→(10/2023)
✓ 1.02 % findings EURL-SRM 2017-2019
✓ 0.01% findings (0.00% MRL exceedances) EFSA 2016
✓ 0.32% findings (0.00% MRL exceedances) EFSA 2017
✓ 0.20% findings (0.00% MRL exceedances) EFSA 2018
✓ 0.16% findings (0.00% MRL exceedances) EFSA 2019
✓ 0.16% findings (0.01% MRL exceedances) EFSA 2020
8% labs and 23% MS analysed full RD in 2019
13% labs and 25% MS analysed full RD in 2020
19% labs and 32% MS analysed full RD in 2021
⇒ Analytical coverage poor
⇒ Keep in Chapter 4 and Annex II
Chloridazon desphenyl (and therefore also the full residue definition of chloridazon) requires an SRM method (QuPPe). Findings mainly concern chloridazon desphenyl. Residue findings mainly concern table grapes and various leafy vegetables and fresh herbs such as basil, chives, dill, celery, ruccola, chards, kale, leeks, parsley, spinach and lettuce. Also found in honey. In 75% of the positive findings residue levels exceeded 0.01 mg/kg. The isotopically labelled standard is available.

Cyflumetofen – PO
Added: 10/2020

Toxicity: ADI = 0.17 mg/kg bw/day, ARfD 0.11 mg/kg bw
Method: MRM, Priority: 1B
Evaluation: after 1 year (10/2021)→(10/2022))→(10/2023)
✓ 0.00% findings (0.01% MRL exceedances) EFSA 2016
✓ 0.01% findings (0.01% MRL exceedances) EFSA 2017
✓ 0.03% findings (0.00% MRL exceedances) EFSA 2018
✓ 0.14% findings (0.00% MRL exceedances) EFSA 2019
✓ 0.16% findings (0.01% MRL exceedances) EFSA 2020
25% labs and 54% MS analysed full RD in 2020
37% labs and 54% MS analysed full RD in 2021
⇒ Analytical coverage poor
⇒ Keep in Chapter 4 and in Annex II
Mainly found on bell peppers, chilli peppers, green beans, strawberries and tomatoes.

Fluazinam – PO
Added: 10/2022

Toxicity: ADI = 0.01 mg/kg bw/day, ARfD 0.07 mg/kg bw
Method: MRM, Priority: 1A
Evaluation: after 1 year (10/2023)
✓ 0.03% findings (0.00% MRL exceedances) EFSA 2018
✓ 0.02% findings (0.01% MRL exceedances) EFSA 2019
✓ 0.04% findings (0.00% MRL exceedances) EFSA 2020
No data on analytical coverage.
Mainly found in apples, pears, sweet pepper, cultivated mushrooms, potatoes, tomatoes.

Matrine (Not Approved) – PO
Added: 10/2020

Toxicity: ADI, ARfD NA
Method: SRM/MRM, Priority: 2B
Evaluation: after 2 years (10/2022) →10/2023
No data on occurrences
✓ 0.10% findings (0.00% MRL exceedances) EFSA 2020
25% labs and 43% MS analysed full RD in 2020
29% labs and 43% MS analysed full RD in 2021
⇒ Analytical coverage poor
⇒ Keep in Chapter 4 and in Annex II
Found in honey, chilli peppers, mandarins, tomatoes and lettuces, teas and aromatic herbs. According to information from the industry it might be found in pears, cucumbers and cabbages as well.

Metaldehyde (Approved) – PO
Added: 10/2021

Toxicity: ADI = 0.02 mg/kg bw/day, ARfD=0.3mg/kg bw
Method: MRM, Priority: 1A
Evaluation: after 1 year (10/2022) →10/2023
✓ 0.21% findings (0.00% MRL exceedances) EFSA 2017
✓ 0.11% findings (0.00% MRL exceedances) EFSA 2018
✓ 0.48% findings (0.06% MRL exceedances) EFSA 2019
✓ 0.28% findings (0.00% MRL exceedances) EFSA 2020
14% labs and 21% MS analysed full RD in 2021
⇒ Analytical coverage poor
⇒ Keep in Chapter 4 and add in Annex II
Found in leafy vegetables and strawberries. The compound is mainly used against snails.

Metamitron – PO
Added: 10/2022

Toxicity: ADI=0.03 mg/kg bw/day, ARfD=0.1 mg/kg bw
Method: MRM, Priority: 1A
Evaluation: after 1 year (10/2023)
✓0.15% findings (0.00% MRL exceedances) EFSA2018
✓0.26% findings (0.00% MRL exceedances) EFSA2019
✓0.13% findings (0.00% MRL exceedances) EFSA2020
No data on analytical coverage.
Relevant for spinaches, cauliflowers, broccoli, head cabbages, barley and strawberries.

Metazachlor – PO
Added: 10/2022

Toxicity: ADI=0.08 mg/kg bw/day, ARfD=0.5 mg/kg bw
Method: MRM, Priority: 1A
Evaluation: after 1 year (10/2023)
✓0.01% findings (0.00% MRL exceedances) EFSA2018
✓0.02% findings (0.02% MRL exceedances) EFSA2019
✓0.08% findings (0.00% MRL exceedances) EFSA2020
No data on analytical coverage.
Findings reported in all types of Brassica crops including head cabbages, also in spinaches, leeks and wheat.

Metobromuron – PO
Added: 10/2022

Toxicity: ADI=0.008 mg/kg bw/day, ARfD=0.3 mg/kg bw
Method: MRM, Priority: 1A
Evaluation: after 1 year (10/2023)
✓0.02% findings (0.01% MRL exceedances) EFSA2018
✓0.02% findings (0.01% MRL exceedances) EFSA2019
✓0.03% findings (0.01% MRL exceedances) EFSA2020
No data on analytical coverage.
Relevant for spinaches and lettuces.

Oxymatrine (Not Approved) – PO
Added: 10/2021

Toxicity: ADI, ARfD NA
Method: SRM/MRM, Priority: 2B
Evaluation: after 2 years (10/2022) →10/2023
✓ No data on occurrences
20% labs and 29% MS analysed full RD in 2021
⇒ **Analytical coverage poor**
⇒ **Keep in Chapter 4 and in Annex II**
Found in honey, mandarins, tomatoes and lettuces, teas and aromatic herbs

Phosphane and phosphide salts – PO
Added: 10/2021

Toxicity: ADI = 0.011 mg/kgbw/day, ARfD=0.019 mg/kgbw
Method: SRM (head-space equipment is needed)
Priority: 2A
Evaluation: after 2 years (10/2017) →10/2023
✓ 27.8 % findings in cereals EFSA 2011
✓ 8.3% findings EFSA 2012
✓ 8.47% findings EFSA 2013
✓ 10% findings EFSA 2014
✓ 11.54% findings (0.00% MRL exceedances) EFSA 2015
✓ 22.45% findings (0.00% MRL exceedances) EFSA 2016
✓ 9.57% findings (0.00% MRL exceedances) EFSA 2017
✓ Not determined (0 samples) EFSA 2018
✓ Not determined (0 samples) EFSA 2019
✓ Not determined (0 samples) EFSA 2020
9% labs and 31% MS analysed full RD in 2015
6% labs and 19% MS analysed full RD in 2016
9% labs and 25% MS analysed full RD in 2017
8% labs and 25% MS analysed full RD in 2021
⇒ **Analytical coverage poor**
⇒ **Keep in Chapter 4 and annex II**
Especially found in all cereals among the MACP commodities. (e.g. wheat, rye, oats, rice, barley). Additionally relevant for some non-MACP commodities such as: millet, maize, nuts, oilseeds and dry pulses. High rates of MRL exceedances found in lentils (including organic).

Pyrethrins – PO
Added: 10/2015

Toxicity: ADI = 0.04 mg/kg bw/day, ARfD = 0.2 mg/kg bw
Method: MRM/SRM, Priority: 2A
Evaluation after 2 years (10/2017)→10/2018→10/2019 →10/2020 →10/2021→10/2022→10/2023
✓ 0.06% findings EFSA 2012
✓ 0.18% findings EFSA 2013
✓ 0.14% findings EFSA 2014
✓ 0.13% findings (0.00% MRL exceedances) EFSA 2015
✓ 0.13% findings (0.00% MRL exceedances) EFSA 2016
✓ 0.08% findings (0.00% MRL exceedances) EFSA 2017
✓ 0.13% findings (0.00% MRL exceedances) EFSA 2018
✓ 0.13% findings (0.00% MRL exceedances) EFSA 2019
✓ 0.14% findings (0.00% MRL exceedances) EFSA 2020
38% labs and 73% MS analysed full RD in 2015
43% labs and 81% MS analysed full RD in 2016
37% labs and 82% MS analysed full RD in 2017
48% labs and 71% MS analysed full RD in 2018
31% labs and 70% MS analysed full RD in 2019
32% labs and 57% MS analysed full RD in 2020
36% labs and 61% MS analysed full RD in 2021
⇒ **Analytical coverage low**
⇒ **Findings may justify inclusion in EU MACP**
⇒ **Keep extra year in Chapter 4, include in Annex II**
Especially relevant for all kinds of fruits, vegetables and cereals within the EU MACP scope. Additionally relevant for several non-MACP commodities such as: currants, strawberries, oranges, peaches, grapes, fresh herbs (e.g. basil), nuts (e.g. almonds, coconuts, hazelnuts), pineapples, pomegranates, sunflower seeds, green beans, cereals and pulses (e.g. dry beans, rice, barley, rye), fruiting vegetables (e.g. sweet peppers and tomatoes) and leafy vegetables (e.g. spinach, lettuce and rucola).

Trimethyl-sulfonium cation (resulting from the use of glyphosate) – PO
Added: 10/2019

Toxicity: ADI = 0.2 mg/kg bw/day, ARfD 0.25mg/kgbw
Method: SRM, Priority: 2B
Evaluation: after 2 years (10/2021)→10/2022)→10/2023
✓ 1.76% findings (0.00% MRL exceedances) EFSA 2015
✓ 1.63% findings (0.18% MRL exceedances) EFSA 2016
2.19% findings (0.39% MRL exceedances) EFSA 2017
✓ 1.34% findings (0.23% MRL exceedances) EFSA 2018
✓ 0.78% findings (0.15% MRL exceedances) EFSA 2019
✓ 1.04% findings (0.24% MRL exceedances) EFSA 2020
10% labs and 35% MS analysed full RD in 2019
15% labs and 43% MS analysed full RD in 2020
20% labs and 46% MS analysed full RD in 2021
⇒ **Analytical coverage poor**
⇒ **Findings justify inclusion in EU MACP**
⇒ **Keep extra year in Chapter 4 and Annex II**
Relevant for dried products, where it is formed as a processing contaminant at high temperature drying (e.g. in dried herbs, dried vegetables, spices, tea, moringa, dried fruits, cereals, pulses,). Also encountered in several other commodities such as aubergines, sweet peppers, asparagus, pears, grapes, citrus fruits (e.g. oranges, grapefruit), onions and mushrooms.

Trinexapac – PO
Added: 10/2019

Toxicity: ADI = 0.32 mg/kg bw/day, ARfD NA
Method: MRM/SRM, Priority: 2B
Evaluation: after 2 years (10/2021)→10/2022)→10/2023
- ✓ 0.41% findings (0.00% MRL exceedances) EFSA 2015
- ✓ 0.35% findings (0.00% MRL exceedances) EFSA 2016
- ✓ 0.51% findings (0.00% MRL exceedances) EFSA 2017
- ✓ 0.66% findings (0.00% MRL exceedances) EFSA 2018
- ✓ 0.18% findings (0.00% MRL exceedances) EFSA 2019
- ✓ 0.12% findings (0.00% MRL exceedances) EFSA 2020

18% labs and 54% MS analysed full RD in 2019
22% labs and 57% MS analysed full RD in 2020
29% labs and 61% MS analysed full RD in 2021

⇒ Analytical coverage poor
⇒ Findings justify inclusion in EUMACP (rye, wheat)
⇒ Keep extra year in Chapter 4 and Annex II

Trinexapac is an MRM/SRM compound and degrades to trinexapac ethyl. It is amenable to slightly modified QuEChERS. The compound was found in cereals (ca 10% positives) and products thereof (ca 30% positive) as well as in orange juice and olive oil.

4.1.2. Recently approved substances

Fenpicoxamid – PO *Approved since 10/2018* Toxicity: ADI 0.05 mg/kg bw day, ARfD 1.8 mg/kg bw Method MRM, Priority: 1B Evaluation after 1 year (10/2019)→ 10/2020→10/2021 →10/2022→10/2023 ✓Not detected (4.067 samples) EFSA 2020 2% labs and 4% MS analysed full RD in 2018 17% labs and 46% MS analysed full RD in 2019 29% labs and 57% MS analysed full RD in 2020 36% labs and 64% MS analysed full RD in 2021 ⇒ **Analytical coverage poor** ⇒ **Keep in Chapter 4 and Annex II**	Florpyrauxyfen benzyl – PO *Approved since 2019* Toxicity: ADI 0.5 mg/kg bw day, ARfD 0NA Method: MRM, Priority 1B Evaluation: after 1 year (10/2020)→10/2021→10/2022→ 10/2023 ✓ No EFSA monitoring data available. 5% labs and 15% MS analysed full RD in 2019 15% labs and 36% MS analysed full RD in 2020 24% labs and 54% MS analysed full RD in 2021 ⇒ **Analytical coverage poor** ⇒ **Keep in Chapter 4 and Annex II**
Flutianil – PO *Approved since 2019* Toxicity: ADI 0.82 mg/kg bw day, ARfD 1 mg/kg bw Method: MRM, Priority 1B Evaluation: after 1 year (10/2020)→10/2021→10/2022→10/2023 ✓ 0.05% findings (0.00% MRL exceedances) EFSA 2017 ✓ 0.03% findings (0.00% MRL exceedances) EFSA 2018 ✓ 0.04% findings (0.00% MRL exceedances) EFSA 2019 ✓ No findings 2020 11% labs and 27% MS analysed full RD in 2019 26% labs and 57% MS analysed full RD in 2020 33% labs and 71% MS analysed full RD in 2021 ⇒ **Analytical coverage poor** ⇒ **Keep in Chapter 4 and Annex II**	Isofetamid – PO *Approved since 2016* Toxicity: ADI 0.02 mg/kg bw day, ARfD 1 mg/kg bw Method: MRM, Priority 1A Evaluation: after 1 year (10/2020)→ 10/2021→10/2022→10/2023 ✓ No EFSA monitoring data available. ✓ 0.47% findings (0.01% MRL exceedances) EFSA 2020 14% labs and 27% MS analysed full RD in 2019 27% labs and 64% MS analysed full RD in 2020 38% labs and 68% MS analysed full RD in 2021 ⇒ **Analytical coverage poor** ⇒ **Keep in Chapter 4 and Annex II**
Isoxaflutole – PO *Renewed since 2019* Toxicity: ADI 0.02 mg/kg bw day, ARfD 0.05 mg/kg bw Method: SRM, Priority 2A Evaluation: after 2 years (10/2021)→10/2022→10/2023 ✓ Not Detected (11.287 samples) EFSA 2017 ✓ Not detected (11.962 samples) EFSA 2018 ✓ Not detected (11.519 samples) EFSA 2019 ✓ Not detected (15.898 samples) EFSA 2020 11% labs and 39% MS analysed full RD in 2019 22% labs and 46% MS analysed full RD in 2020 26% labs and 39% MS analysed full RD in 2021 ⇒ **Analytical coverage poor** ⇒ **Keep in Chapter 4 and Annex II**	Mefentrifluconazole – PO *Approved since 2019* Toxicity: ADI 0.035 mg/kg bw day, ARfD 0.15 mg/kg bw Method: MRM, Priority 1A Evaluation: after 1 year (10/2020)→ 10/2021→10/2022→10/2023 ✓ Not detected (1.823 samples) EFSA 2019 ✓ Not detected (8.326 samples) EFSA 2020 13% labs and 31% MS analysed full RD in 2019 25% labs and 57% MS analysed full RD in 2020 32% labs and 64% MS analysed full RD in 2021 ⇒ **Analytical coverage poor** ⇒ **Keep in Chapter 4 and Annex II**
Oxathiapiprolin – PO *Approved since 03/2017* Toxicity: ADI = 0.15 mg/kg bw/day Method MRM, Priority: 1B ✓ Evaluation (10/2019)→10/2020→ 10/2021→10/2022→10/2023 ✓ No monitoring data available EFSA 2014-2017 ✓ Not detected in 2.558 samples (EFSA) ✓ Not detected (8.774 samples) EFSA 2019 ✓ 0.01% findings (0.00% MRL exceedances) EFSA2020 7% labs and 18% MS analysed full RD in 2018	Pyriofenone – PO *Approved since 02/2014* Toxicity: ADI = 0.07 mg/kg bw/day, ARfD NA Method MRM, Priority 1A Evaluation after 1 year (10/2018) →10/2019→10/2020 →10/2021→10/2022→10/2023 ✓ No monitoring data available EFSA 2012-2015 ✓ N.D EFSA 2016 ✓ 0.04% findings (0.00% MRL exceedances) EFSA 2017 ✓ 0.03% findings (0.00% MRL exceedances) EFSA 2018 ✓ 0.01% findings (0.00% MRL exceedances) EFSA 2019

21% labs and 46% MS analysed full RD in 2019 32% labs and 57% MS analysed full RD in 2020 38% labs and 61% MS analysed full RD in 2021 ⇒ **Analytical coverage poor** ⇒ **Keep in Chapter 4 and Annex II**	✓ 0.06% findings (0.00% MRL exceedances) EFSA2020 17% labs and 39% MS analysed full RD in 2016 24% labs and 50% MS analysed full RD in 2017 21% labs and 50% MS analysed full RD in 2018 33% labs and 77% MS analysed full RD in 2019 36% labs and 75% MS analysed full RD in 2020 41% labs and 71% MS analysed full RD in 2021 ⇒ **Analytical coverage average** ⇒ **Keep in Chapter 4 and Annex II** Found in wines.

4.1.3. Art. 12 priority list

No pesticide identified under this category.

4.1.4. High toxicity

No pesticide identified under this category.

4.2. Pesticides to be considered for analysis in products of animal origin (AO)

4.2.1. Frequent detections[2], MRL exceedances or RASFF notifications

Boscalid – AO *Added: 10/2020* Toxicity: ADI = 0.04 mg/kg bw/day, ARfD NA Method: MRM, Priority: 1A Evaluation after 1 year (10/2021)→10/2022→10/2023 ✓ 0.14% findings (0.00% MRL exceedances) EFSA 2016 ✓ 0.35% findings (0.00% MRL exceedances) EFSA 2017 ✓ 0.36% findings (0.10% MRL exceedances) EFSA 2018 ✓ 0.35% findings (0.04% MRL exceedances) EFSA 2019 ✓ 0.59% findings (0.00% MRL exceedances) EFSA 2020 Information only for partial RD: 18% labs and 25% MS in 2020 18% labs and 25% MS in 2021 **⇒ Analytical coverage poor** **⇒ Keep in Chapter 4 and Annex II** Findings reported here are related to honey, but the substance is also included here as findings in feed are expected.	Fluazifop-P – AO *Added: 10/2015* Toxicity: ADI=0.01 mg/kg bw/day, ARfD=0.017 mg/kgbw Method: SRM (hydrolysis required to cover the full residue definition) Priority: 2A Evaluation after 2 years (10/2017) → 10/2018→10/2019→10/2020→10/2021→10/2022→10/2023 ✓ 0 % findings EFSA 2012 (148 samples) ✓ 0% findings EFSA 2013 ✓ 1.03% findings (0.51%MRL exceedances) EFSA 2014 ✓ N.D. EFSA 2015 report (54 samples) ✓ N.D. EFSA 2016 report (953 samples) ✓ N.D. EFSA 2017 report (1026 samples) ✓ N.D. EFSA 2018 report (1134 samples) ✓ 0.44% findings (0.00% MRL exceedances) EFSA 2019 ✓ N.D. EFSA 2020 report (752 samples) 12% labs and 40% MS analysed full RD in 2015 10% labs and 32% MS analysed full RD in 2016 3% labs and 0% MS analysed full RD in 2017 5% labs and 11% MS analysed full RD in 2018 4% labs and 22% MS analysed full RD in 2019 9% labs and 32% MS analysed full RD in 2020 11% labs and 39% MS analysed full RD in 2021 **⇒ Analytical coverage poor** **⇒ Keep in Chapter 4 and Annex II** Based on feeding studies relevant for animal fat, liver, kidney, eggs, cows' milk and butter. Findings reported here are related to honey.

4.2.2. Recently approved

Mefentrifluconazole – AO *Approved since 2019* Toxicity: ADI 0.035 mg/kg bw day, ARfD 0.15 mg/kg bw Method: MRM, Priority 1A Evaluation: after 1 year (10/2020) →10/2021→10/2022→10/2023 ✓ N.D. EFSA 2020 report (84 samples) No data on analytical coverage 8% labs and 18% MS analysed full RD in 2020 14% labs and 29% MS analysed full RD in 2021 **⇒ Analytical coverage poor** **⇒ Keep in Chapter 4 and Annex II**	Penflufen – AO *Approved since 02/2014* Toxicity:ADI = 0.04 mg/kg bw/day, ARfD = 0.5 mg/kg bw Method: MRM, Priority: 1A Evaluation: after 1 year (10/2017) → 10/2018→10/2019 →10/2020→10/2021→10/2022→10/2023 ✓ No monitoring data available EFSA 2012, 2013, 2014, 2015 ✓ N.D. EFSA 2016, 2017 (11 samples) ✓ N.D. EFSA 2018 (186 samples) ✓ N.D. EFSA 2019 (734 samples) ✓ N.D. EFSA 2020 (826 samples) 6% labs and 20% MS analysed full RD in 2015 8.6% labs and 24% MS analysed full RD in 2016 15% labs and 29% MS analysed full RD in 2017 15% labs and 33% MS analysed full RD in 2018 28% labs and 52% MS analysed full RD in 2019 31% labs and 54% MS analysed full RD in 2020 33% labs and 61% MS analysed full RD in 2021 **⇒ Analytical coverage poor** **⇒ Keep in Chapter 4 and Annex II**

[2] SRM-compounds are typically analysed on specific commodities so their detection frequencies are typically higher than if they would have been analysed randomly.

Sulfoxaflor – AO *Approved since 08/2015* Toxicity: ADI = 0.04 mg/kgbw/day, ARfD = 0.25 mg/kgbw Method: MRM, Priority: 1B Evaluation after 1 year (10/2017) → 10/2018→10/2019 →10/2020→10/2021→10/2021→10/2022→10/2023 ✓ No monitoring data 2012, 2013, 2014 and 2015. ✓ N.D. EFSA 2016 (24 samples), 2017 not analysed ✓ N.D. EFSA 2018 (223 samples) ✓ N.D. EFSA 2019 (875 samples) ✓ N.D. EFSA 2020 (917 samples) 3.6% labs and 12% MS analysed full RD in 2015 3.6% labs and 12% MS analysed full RD in 2016 13% labs and 29% MS analysed full RD in 2017 15% labs and 37% MS analysed full RD in 2018 25% labs and 48% MS analysed full RD in 2019 33% labs and 54% MS analysed full RD in 2020 37% labs and 50% MS analysed full RD in 2021 ⇒ **Analytical coverage poor** ⇒ **Keep in Chapter 4 and Annex II**	

4.3. Evaluation

- ✓ The evaluation of the chapter 4 substances at the end of the specified evaluation period will be done based on the information listed in Annex V.
- ✓ The data on the number of labs analysing each substance is collected by the EURLs and stored in the EURL data pool.
- ✓ The data on the number of MRL exceedances and findings is gathered by EFSA as part of data collection for the National Programmes. These results are then be summarised by COM and added to this document.
- ✓ In the expert group meeting a decision is taken for moving a substance to the MACP, for deletion from the WD (addition to Annex IV for information for Member States) or for an additional evaluation period in the working document.

5. Proposals for inclusion of new substances in the working document

COM, EFSA, the EURLs and the Member States can put forward substances to be included in the working document by filling out the form in Annex VI. The proposal for inclusion of new substances should be sent to COM by June, prior to the annual expert group meeting on pesticides residues monitoring. During this meeting the submitted proposals will be discussed.

6. Procedure for development of the document

- ➢ During the SCOFCAH of 12-13 June 2014 it was decided to develop this document according to an approach in which the pesticides are divided into specific categories. Based on a limited set of criteria each pesticide is attributed a priority and a time line for evaluation of inclusion or non-inclusion in the MACP.

- ➢ In Rev.2 of this Working Document this approach was implemented. Details on the substances, criteria, priorities and timelines were discussed in the expert meeting on monitoring on 10 October 2014.

- ➢ COM included the decisions taken in the expert group in Rev.3 of this document. In Rev.4 and 5 additional comments from MS experts and the EURLs were taken into account. During the PAFF Committee of 24-25 November 2014 the Member States took note of Rev 5(3).

- Rev 5(3) was applicable to samples analysed in 2015.

- By June 2015 COM, EFSA, the EURLs and Member States could send a proposal to COM for new substances to be included in the working document.

- In October 2015 new substances that were proposed for inclusion in the working document were discussed in the expert group.

- By June 2016 COM, EFSA, the EURLs and Member States could send a proposal to COM for new substances to be included in the working document.

- By August 2016, the EURLs gathered through a survey the information on the % of labs analysing each substance (2015 analyses). By that time the Member States could also submit to EFSA the monitoring data for those substances for which the evaluation timing was set for 10/2016. EFSA summarised these data for the October/November expert group.

- In October/ November 2016 decisions were taken in the expert group on which chapter 4 substances to move to the MACP 2018, which ones to be deleted from the WD, which ones to be evaluated for an additional period. During this meeting also new substances that were proposed for inclusion in the working document were discussed.

- By June 2017 COM, EFSA, the EURLs and Member States could send a proposal to COM for new substances to be included in the working document.

- By August 2017, the EURLs gathered, through a survey, the information on % of labs analysing each substance (2016 analyses). By that time the Member States could also submit to EFSA the monitoring data for those substances for which the evaluation timing was set for 10/2017. EFSA summarised these data for the October/ November expert group.

- During the Standing Committee on Plants, Animals, Food and Feed (PAFF) – section Residues of 21-22 November 2017, the Member States took note of the Rev9(1) of the document.

- By June 2018 COM, EFSA, the EURLs and Member States could have sent a proposal to COM for new substances to be included in the working document.

- By October 2018, the EURLs gathered through a survey the information on % of labs analysing each substance (2017 analyses). By that time the Member States also submitted to EFSA the monitoring data for those substances for which the evaluation timing was set for 10/2018. EFSA summarised it for the October expert group.

- In October 2018, decisions were taken in the expert group on which chapter 4 substances to move to the MACP 2020, which ones to be deleted from the WD and which ones to be evaluated for an additional period. During this meeting also new substances were proposed for inclusion in the working document.

- During the Standing Committee on Plants, Animals, Food and Feed (PAFF) – section Residues of 26-27 November 2018, the Member States took note of the Rev10(3) of the document.

- By September 2019, the EURLs gathered, through a survey, the information on the % of labs analysing each substance (2018 analyses).

- In October 2019, decisions were taken in the expert group on which chapter 4 substances to move to the MACP 2021-2023, which ones to be deleted from the WD and which ones to be evaluated for an additional period. During this meeting also new substances were proposed for inclusion in the working document.

- During the Standing Committee on Plants, Animals, Food and Feed (PAFF) – section Residues of 25-26 November 2019, the Member States took note of the Rev11(3) of the document.

- By September 2020, the EURLs collected, through a survey, the information on the % of labs analysing each substance (2019 analyses).

- In October 2020, the expert group decided to move 4 substances in the MACP 2022-2024. It also decided on which substances to be maintained in chapter 4 for further evaluation and which new substances should be included.

- During the Standing Committee on Plants, Animals, Food and Feed (PAFF) – section Residues of 23-24 November 2020, the Member States took note of the Rev12(2) of the document.

- By October 2021, the EURLs gathered, through a survey, the information on the % of labs analysing each substance (2020 analyses).

- In October 2021, the expert group decided to move one substance from Chapter 4 in the MACP 2023-2025 and to add another one directly in it. It also decided on which substances to be maintained in chapter 4 for further evaluation and which new substances should be included.

- During the Standing Committee on Plants, Animals, Food and Feed (PAFF) – section Residues of 22-23 November 2021, the Member States took note of the Rev13(4) of the document.

- By October 2022, the EURLs gathered, through a survey, the information on the % of labs analysing each substance (2021 analyses).

Annex I: Substances for which information on residues is needed for addressing specific risk management questions.

Monitoring data for these substances could be used for answering specific risk management questions.

- **Anthraquinone**, especially relevant for products dried by the use of open fires or grown in areas with high environmental pollution, such as tea, dried herbs and dried spices. Also found in mate, tomatoes, cereals, and goji berries.
- **Benzalkonium chloride[3] (BAC)**, mainly relevant for fresh processed products of plant or animal origin, that come into contact with BAC- sanitized surfaces (containers, tubes, packaging lines etc.), or that are directly sanitized with BAC-containing water. This includes meat, animal fat, offal, milk, milk products, fresh produce and juices. In the past, there were cases where organic products were treated with formulations illegally containing quaternary ammonium compounds.
- **Chlorates**[4], mainly relevant in vegetables (especially leafy vegetables) that are irrigated with chlorate containing water; in food that is washed with chlorinated water (e.g. carrots), in processed products of animal or plant origin that come into contact with surfaces (containers, tubes, packaging lines etc.) that are sanitized (including milk, baby food, juices).
- **Chlormequat,** information needed on cultivated mushrooms; also relevant for e.g. cereals, fresh and dried sweet- and chili peppers, tomatoes, broccoli, lettuce, potatoes, stone fruits, pears, ginger, grapes and honey.
- **Didecyldimethylammonium chloride**[5] (DDAC) relevance: equivalent to benzalkonium chloride.
- **Glyphosate**, information needed on residues in soyabean; also relevant for commodities where glyphosate is used for desiccation prior to harvesting such as dried pulses (e.g. beans, lentils, chick peas), cereals (e.g. rye, oat,), pseudocereals (e.g. buckwheat, millet), oily seeds (e.g. flax seeds. chia seeds, sunflower seeds), dried mushrooms and tree fruits (e.g. citrus fruits, pome fruit, stone fruit).
- **Nicotine,** information needed for setting or adjusting provisional MRLs (provisional MRLs currently exist for rose hips, herbs and edible flowers, wild fungi, teas, herbal infusions and spices), other relevant matrices are listed under 4.1. ARfD exceedances reported.
- **Oxymatrine**, information needed for honey.
- **Mepiquat**, information needed on cultivated mushrooms; also relevant for cereals, fresh and dried sweet- and chili peppers, potatoes and pome fruits.
- **Ethylene oxide including 2-chloro-ethanol**: information needed on fresh produce, e.g. sweet peppers, onions and dry products such as dried herbs and spices; also relevant for e.g. spices, oily seeds, dry herbs, dry vegetables, dry "superfood" (e.g. moringa), and food supplements. Additionally relevant for certain food and feed additives such as those entailing polyethylene glycole chains (e.g. PEG and polysorbates;), thickeners (e.g. guar gum, locust bean gum) and calcium carbonate. Note: residues in food additives are regulated via Reg. 231/2012/EC).
- **Bromide ion**: In the context of discussions on Multiple source substances for which Annex IV inclusion is not recommended, discussions on bromide background levels in different products listed in Annex 1 to Regulation (EC) No 396/2005 were initiated at the Standing Committee on Plants, Animals, Food and Feed (ScoPAFF) – Section Phytopharmaceuticals, Pesticides Residues in November 2020 and further discussed since then. A first overview on bromide background levels collected by EFSA over the last years and presented at the SCoPAFF of 22/23 September 2021 shows that further data are needed for several commodities. When drawing up national programmes Member States should focus on those commodities for which data are still lacking, so that the database can be completed.

[3] The results should be reported as mixture of alkylbenzyldimethylammonium chlorides with alkyl chain lengths of C8, C10, C12, C14, C16 and C18.

[4] The results for chlorates (including Mg, Na and K chlorates), should be expressed as chlorate.

[5] The results should be reported as mixture of alkyl-quaternary ammonium salts with alkyl chain lengths of C8, C10 and C12.

Annex II: Substances for which analytical support is requested from the EURLs

For the substances listed in this Annex, support is needed from the EURLs because no validated analytical method and/or no standards are available and/or because further EURL-contribution is needed for increasing the analytical coverage of these substances by official labs. To be checked and updated with the EURLs.

Substances relevant for plant origin commodities.

(a) Support required due to residue definition

Chlorpyrifos-methyl (Not approved)– PO

EFSA investigated the metabolism of chlorpyrifos-methyl in post-harvest treatment in cereals. Desmethyl-chlorpyrifos-methyl was observed as a significant metabolite as a result of degradation of the parent compound under standard hydrolytic conditions. Toxicological data for desmethyl-chlorpyrifos-methyl are missing and should be provided.
EFSA proposed an enforcement residue definition (specific to chlorpyrifos-methyl) which includes the parent compound (in all crops) and its desmethyl metabolite (in cereals and processed commodities only); chlorpyrifos-methyl can be enforced in plant commodities with a limit of quantification (LOQ) of 0.01 mg/kg, while analytical methods are not available for its desmethyl metabolite and should be developed. The EURL-SRM has validated this compound in January 2019. Recoveries using unmodified QuEChERS were lower than those of the parent,but still within the acceptable range. PSA cleanup should be skipped to avoid unacceptable losses (recoveries drop to <70%). These validation data have not been published yet.
An analytical standard is commercially available.
Support needed: Publish analytical method and/or observations report.

Diquat (Not Approved) – PO

Toxicity: ADI = 0.002 mg/kg bw/day, ARfD NA
Method: SRM, Priority: 2A
Evaluation: after 1 year (10/2021)
- ✓ 0.94 % findings (0.00% MRL exceedances) EFSA 2015
- ✓ 1.27% findings (0.00% MRL exceedances) EFSA 2016
- ✓ 0.86% findings (0.00% MRL exceedances) EFSA 2017

28% labs and 68% MS analysed full RD in 2020
Support needed: Analytical method (SRM-09) needs to be further optimized, validated and circulated. Act towards increasing the analytical coverage by official labs.

Guazatine (not approved) – PO

No analytical method is currently available for the analysis of guazatine, which is a mixture of many components (standards are available for the mixtures but their composition does not always correspond to that of formulations or samples).
Toxicity: ADI=0.0048 mg/kg bw/day,ARfD=0.04 mg/kgbw
- ✓ No monitoring data EFSA 2012, 2013, 2014, 2015 or 2016.
- ✓ No findings in 2017 (10 samples).

0% labs and 0% MS analysed full RD in 2018
Especially relevant for citrus fruits and cereals based on use pattern.
Support needed: Encourage analytical standard providers to include standards of individual components in their portfolio. Further develop the method SRM-38 as soon as standards become available. Act towards increasing the analytical coverage by official labs

Meptyldinocap (approved since 01/04/2015) – PO

No method available for full residue definition, 2,4 DNOP and 2,4-DNOCP standards are available. The EURL-SRM has published a method covering both the parent and its metabolite 2,4-DNOP (SRM-47).
Toxicity: ADI = 0.016 mg/kg bw/day, ARfD = 0.12 mg/kg bw
- ✓ 0.04% findings EFSA 2012 report
- ✓ 0% findings EFSA 2013 report
- ✓ 0.04% findings EFSA 2014 report
- ✓ 0.00% findings EFSA 2015 report
- ✓ 0.13% findings EFSA 2016 report
- ✓ 0.06% findings EFSA 2017 report

9% labs and 29% MS analysed full RD in 2017
4% labs and 11% MS analysed full RD in 2018
14% labs and 32% MS analysed full RD in 2020
Especially relevant for melons, strawberries, table grapes and wine.
Support needed: Publish analytical method and/or observations report. Act towards increasing the analytical coverage by official labs.

Triclopyr – PO

This substance shares the same metabolites as chlorpyrifos and chlorpyrifos-methyl. For these substances new toxicological studies are available requiring the review of certain MRLs. As these metabolites are not taken up in the current residue definition, method development should only start once the Art. 12 Regulation is voted.

Toxicity: ADI = 0.03 mg/kg bw/day, ARfD = 0.3 mg/kg bw
Method: MRM/SRM, method was developed by the EURL-SRM, the report will be published in the near future.
Relevant for oranges, mandarins, apples, pears
- ✓ 0.07% findings EFSA 2012 report (parent)
- ✓ 0.03% findings EFSA 2013 report (parent)
- ✓ 0.02% findings EFSA 2014 report
- ✓ 0.06% findings EFSA 2015 report (19604 samples)
- ✓ 0.03% findings EFSA 2016 report (22614 samples)
- ✓ 0.04% findings EFSA 2017 report (23466 samples)

42% labs and 77% MS analysed full RD in 2017
43% labs and 79% MS analysed full RD in 2017
36% labs and 79% MS analysed full RD in 2018
46% labs and 82% MS analysed full RD in 2020
Especially relevant for bananas, kiwi, pears, oranges, strawberries and table grapes. Additionally relevant for some non-MACP commodities such as: rice, apricots, mandarins/clementines, lemons, limes and plums.
Triclopyr has been successfully validated by the EURL-SRM in various commodities of plant origin. A report is available on-line (SRM-02). An analytical standard for triclopyr is commercially available.

Support needed: Act towards increasing the analytical coverage by official labs

Tritosulfuron – PO

New residue definition after Art. 12 review: separate MRLs are set for tritosulfuron and 2-amino-4-methoxy-6-(trifluormethyl)-1,3,5-triazine (AMTT).
Toxicity parent: ADI = 0.06 mg/kg bw/day, ARfD NA
Toxicity AMTT: ADI and ARfD 0.0001 mg/kg bw/day
Method: MRM/SRM method for AMTT available
Especially relevant for rice, wheat, rye and oats
- ✓ 0% findings EFSA 2012 report
- ✓ 0% findings EFSA 2013 report
- ✓ 0% findings EFSA 2014 report (7447 samples)
- ✓ 0% findings EFSA 2015 report (4160 samples)
- ✓ 0% findings EFSA 2016 report (7002 samples)
- ✓ 0% findings EFSA 2017 report (8262 samples)

25% labs and 50% MS analysed full RD in 2016
25% labs and 46% MS analysed full RD in 2017
22% labs and 50% MS analysed full RD in 2018
43% labs and 75% MS analysed full RD in 2018
Tritosulfuron has been successfully validated by the EURL-CF and EURL-FV in various commodities of plant origin using a multiresidue approach. Numerous reports are available on-line (see EURL-Method Finder List). An analytical standard for tritosulfuron is commercially available.
AMTT has been successfully validated by the EURL-SRM in various commodities of plant origin. A report is available on-line (SRM-35). An analytical standard for AMTT is commercially available.

Support needed: Act towards increasing the analytical coverage of AMTT by official labs.

(b) Support required due to other reasons

1-Naphthylacetamide (NAD)
1-Naphthylacetic acid (NAA) – PO
Added: 10/2019

Toxicity: ADI = 0.1 mg/kg bw/day, ARfD 0.1mg/kgbw
Method: MRM/SRM, Priority: 2B
Evaluation: after 2 year (10/2021)
- ✓ 0.30 % findings (0.00% MRL exceedances) EFSA 2015
- ✓ 0.39% findings (0.00% MRL exceedances) EFSA 2016
- ✓ 0.49% findings (0.00% MRL exceedances) EFSA 2017

14% labs and 32% MS analysed full RD in 2020
Relevant for matrices of the cucurbit family (ca 12% positives and ca 25% positive in case of zucchini). Also relevant for aubergines, pears, peaches, strawberries and sweet peppers.

1-Naphthylacetamide has been successfully validated by the EURL-CF and EURL-FV in various commodities of plant origin using a multiresidue approach. Numerous reports are available on-line (see EURL-Method Finder List). An analytical standard for 1-Naphthylacetamide is commercially available.
1-Naphthylacetic acid has been successfully validated by the EURL-SRM in various commodities of plant origin. A report is available on-line (SRM-02 and -43). An analytical standard for 1-Naphthylacetic acid is commercially available.
Support needed: Act towards increasing the analytical coverage by official labs

4-CPA (4- chlorophenoxyaceticacid) (Not approved) – PO
Toxicological, occurrence and laboratory coverage data in §4.1.1
4-CPA has been successfully validated by the EURL-SRM in various commodities of plant origin. A report is available on-line (SRM-02). An analytical standard for 4-CPA is commercially available.
Support needed: Act towards increasing the analytical coverage by official labs

Azadirachtin – PO
Toxicological, occurrence and laboratory coverage data in §4.1.1
Support needed: Act towards increasing the analytical coverage by official labs

Bifenazate – PO
Toxicological, occurrence and laboratory coverage data in §4.1.1
Bifenazate (sum) has been successfully validated by the EURL-SRM in various commodities of plant origin. A report is available on-line (SRM-34). Analytical standards for both bifenazate and bifenazate diazene are commercially available.
Support needed: Act towards increasing the analytical coverage by official labs

Chloridazon (Not Approved) – PO
Toxicological, occurrence and laboratory coverage data in §4.1.1
Chloridazone-desphenyl, the component mainly encountered as residue is covered by the QuPPe method (SRM-09). Analytical standards of this compound and its corresponding IL-IS are available.
Support needed: Act towards increasing the analytical coverage by official labs

Cyflumetofen – PO
Toxicological, occurrence and laboratory coverage data in §4.1.1
Support needed: Act towards increasing the analytical coverage by official labs

Fenpicoxamid – PO
Toxicological, occurrence and laboratory coverage data in §4.1.2
Fenpicoxamid has been successfully validated by the EURL-CF and EURL-FV in various commodities of plant origin using a multiresidue approach. Numerous reports are available on-line (see EURL-Method Finder List). An analytical standard for fenpicoxamid is commercially available.
Support needed: Act towards increasing the analytical coverage by official labs.

Florpyrauxyfen benzyl – PO
Toxicological, occurrence and laboratory coverage data in §4.1.2
Florpyrauxyfen benzyl has been successfully validated by the EURL-CF in various commodities of plant origin using a multiresidue approach. A report is available on-line (see EURL-Method Finder List). An analytical standard for florpyrauxyfen benzyl is commercially available.
Support needed: Act towards increasing the analytical coverage by official labs.

Fluensulfone – PO

Not approved in EU, recently approved outside EU
No method available.
5% labs and 18% MS analysed full RD in 2018.
ADI 0-0.01 mg/kg bw day, ARfD 0.1 mg/kg bw
Relevant commodities: fruiting vegetables

Fluensulfone has been successfully validated by the EURL-CF and EURL-FV in various commodities of plant origin using a multiresidue approach. Numerous reports are available on-line (see EURL-Method Finder List). An analytical standard for fluensulfone is commercially available.
Support needed: Act towards increasing the analytical coverage by official labs.

Flutianil – PO

Toxicological, occurrence and laboratory coverage data in §4.1.2

Flutianil has been successfully validated by the EURL-CF in various commodities of plant origin using a multiresidue approach. A report is available on-line (see EURL-Method Finder List). An analytical standard for flutianil is commercially available.
Support needed: Act towards increasing the analytical coverage by official labs.

Isofetamid – PO

Toxicological, occurrence and laboratory coverage data in §4.1.2

Isofetamid has been successfully validated by the EURL-CF in various commodities of plant origin using a multiresidue approach. area method report is available on-line (see EURL-Method Finder List). An analytical standard for isofetamid is commercially available.
Support needed: Act towards increasing the analytical coverage by official labs.

Isoxaflutole – PO

Toxicological, occurrence and laboratory coverage data in §4.1.2

Isoxaflutole has been successfully validated by the EURL-CF and the EURL-FV in various commodities of plant origin using multiresidue methods. Numerous reports are available on-line (see EURL-Method Finder List). The analytical standard for isoxaflutole is commercially available.
The analytical standard for RPA202248 is commercially available
Support needed: Act towards increasing the analytical coverage by official labs. Validation of the diketonitrile metabolite in commodities of plant origin is pending.

Lambda-cyhalothrin, Gamma-cyhalothrin – PO

Cyhalothrin is not approved since 1994, hence the default MRL of 0.01* mg/kg applies. It is constituted by four isomers (2 diastereomeric pairs): R,R; R,S; S,R and S,S, as follows:

1: (R)-α-cyano-3-phenoxybenzyl (1R)-cis-3-[(Z)-2-chloro-3,3,3-trifluoropropenyl]-2,2-dimethylcyclopropanecarboxylate;
2: (R)-α-cyano-3-phenoxybenzyl (1S)-cis-3-[(Z)-2-chloro-3,3,3-trifluoropropenyl]-2,2-dimethylcyclopropanecarboxylate;
3: (S)-α-cyano-3-phenoxybenzyl (1R)-cis-3-[(Z)-2-chloro-3,3,3-trifluoropropenyl]-2,2-dimethylcyclopropanecarboxylate;
4: (S)-α-cyano-3-phenoxybenzyl (1S)-cis-3-[(Z)-2-chloro-3,3,3-trifluoropropenyl]-2,2-dimethylcyclopropanecarboxylate.

Lambda-cyhalothrin is a 1:1 mixture of two of the four cyhalothrin components, the R,R and S,R isomers (numbers 1 and 3) and its approval was renewed by Regulation (EU) 2016/146 of 4 February 2016. Gamma-cyhalothrin is constituted by only the most toxic of the four components, the S,R isomer (the third one), which is also contained in lambda-cyhalothrin. As a result, gamma cyhalothrin is twice as toxic as lambda-cyhalothin and four times more toxic than cyhalothrin. It is an approved active substance under Regulation (EU) 1334/2014 of 16 December 2014.

Following a Commission investigation in September 2016, it was found that most authorisations of gamma-cyhalothrin PPPs in MSs are based on reference to lambda-cyhalothrin, i.e to a less toxic compound of isomers than the actual substance used in the PPPs.

Analytical coverage of lambda cyhalothrin:
88% labs and 93% MS analysed full RD in 2018.

Lambda-cyhalothrin has been successfully validated by the EURL-CF and the EURL-FV in various commodities of plant origin using MRMs. Reports are available on-line (see EURL-Method Finder List). The analytical standard for lambda-cyhalothrin is commercially available

Using a stereoselective method gamma-cyhalothrin (as part of lambda cyhalothrin) has been successfully validated by the EURL-SRM in commodities of plant origin. A report is available on-line (SRM-39). The method allows distinction between gamma and lambda cyhalothrin. The analytical standard for gamma-cyhalothrin is commercially available.

Support needed: Act towards increasing the stereoselective coverage of gamma cyhalothrin by official labs.

Maleic hydrazide – PO

Maleic hydrazide has been successfully validated by the EURL-SRM in various commodities of plant origin using a single-residue method (SRM-09). A report is available on-line (see EURL-Method Finder List). An analytical standard for maleic hydrazide is commercially available.

Support needed: Act towards increasing the analytical coverage by official labs

Matrine (Not Approved) – PO

Toxicological, occurrence and laboratory coverage data in §4.1.1

Support needed: Act towards increasing the analytical coverage by official labs.

Mefentrifluconazole – PO

Toxicological, occurrence and laboratory coverage data in §4.1.2

Mefentrifluconazole has been successfully validated by the EURL-CF in various commodities of plant origin using a multiresidue approach. An analytical standard for mefentrifluconazole is commercially available.

Support needed: Act towards increasing the analytical coverage by official labs.

Metaldehyde – PO Toxicological, occurrence and laboratory coverage data in §4.1.1 **Support needed:** Act towards increasing the analytical coverage by official labs.	Oxathiapiprolin – PO Toxicological, occurrence and laboratory coverage data in §4.1.2 Oxathiapiprolin has been successfully validated by the EURL-CF and the EURL-FV in various commodities of plant origin using multiresidue methods. Numerous reports are available on-line (see EURL-Method Finder List). The analytical standard for oxathiapiprolin is commercially available. **Support needed:** Act towards increasing the analytical coverage by official labs.
Oxymatrine (Not Approved) – PO Toxicological, occurrence and laboratory coverage data in §4.1.1 **Support needed:** Act towards increasing the analytical coverage by official labs.	Paraquat – PO For the analysis of paraquat in soybean (high fat matrix) it is challenging to enforce the MRL set at the LOQ of 0.02* mg/kg. A method was developed but it does not show the robustness needed. The analysis of paraquat in soyabean is no candidate for the EU MACP. It can be considered for the national programmes. 16% labs and 43% MS analysed full RD in 2018. **Support needed:** Analytical method (SRM-09) needs to be further optimized, validated and circulated. Act towards increasing the analytical coverage by official labs
Phosphane and phosphide salts – PO Toxicological, occurrence and laboratory coverage data in §4.1.1 **Support needed** on the availability of the analytical standard and inclusion in EUPTs.	Pyrethrins– PO Toxicological, occurrence and laboratory coverage data in §4.1.1 Pyrethrins has been successfully validated by the EURL-CF and the EURL-FV in various commodities of plant origin using multiresidue methods. Numerous reports are available on-line (see EURL-Method Finder List). The analytical standard for pyrethrins is commercially available for the mixture and a few of the six constituent components. **Support needed:** Encourage analytical standard providers to include standards of individual components in their portfolio. Act towards increasing the analytical coverage by official labs.
Pyriofenone – PO Toxicological, occurrence and laboratory coverage data in §4.1.2 Pyriofenone has been successfully validated by the EURL-CF and the EURL-FV in various commodities of plant origin using multiresidue methods. Numerous reports are available on-line (see EURL-Method Finder List). The analytical standard for pyriofenone is commercially available. **Support needed:** Act towards increasing the analytical coverage by official labs.	
Triazole Derivative Metabolites (TDMs) The triazole group of active substances contains the triazole moiety in their molecule. TDMs are a group of metabolites resulting from the use of pesticides belonging to the group of triazoles. The TDMs include: ✓ Triazole Acetic Acid (TAA) ✓ Triazole Alanine (TA) ✓ Triazole Lactic Acid (TLA) ✓ 1,2,4-Triazole (1,2,4-T) In its publication concerning the pesticide risk assessment of TDMs in June 2018 , EFSA recommends establishing a monitoring programme for all	Trimethyl-sulfonium cation (resulting from the use of glyphosate) – PO Toxicological, occurrence and laboratory coverage data in §4.1.1 Trimethyl-sulfonium cation has been successfully validated by the EURL-FV in various commodities of plant origin using multiresidue methods. Numerous reports are available on-line (see EURL-Method Finder List). The analytical standard of trimethyl-sulfonium-iodide and of the respective ILIS are commercially available.

TDMs to gather information on their background levels in products of plant and animal commodities from current and previous uses of the triazole active substances. TDMs have been successfully validated by the EURL-SRM in various commodities of plant origin using specific QuPPe-based methods (SRM-9). The analytical standards for the individual TDMs and the corresponding ILISs are commercially available[6]. **Support needed:** Act towards increasing the analytical coverage by official labs.	**Support needed:** Act towards increasing the analytical coverage by official labs.
Trinexapac – PO Toxicological, occurrence and laboratory coverage data in §4.1.1 Trinexapac (acid) has been successfully validated by the EURL-SRM in various commodities of plant origin (SRM-43).. Numerous reports are available on-line (see EURL-Method Finder List). An analytical standard for trinexapac is commercially available. **Support needed:** Act towards increasing the analytical coverage by official labs	

[6] TA 13C2, 15N3:https://isosciences.com/shop/environmental/triazole-13c2-15n3-alanine/
TLA TA 13C2, 15N3:
https://isosciences.com/shop/environmental/triazole-13c2-15n3-lactic-acid/?q=Triazole-%5B%3Csup%3E13%3C%2Fsup%3EC%3Csub%3E2%3C%2Fsub%3E%2C%20%3Csup%3E15%3C%2Fsup%3EN%3Csub%3E3%3C%2Fsub%3E%5D%20Lactic%20Acid
TAA 13C2, 15N3: https://isosciences.com/shop/environmental/triazole-13c2-15n3-acetic-acid/?q=triazole
Triazole 13C2, 15N3: https://isosciences.com/shop/environmental/triazole-13c215n3/?q=triazole

Substances relevant for animal origin commodities

(a) Support required due to residue definition

Chlorpropham – AO

No method available for the full AO residue definition; a method for 4-HSA and its validation are pending (a different method is needed for the analysis of code 1016000 (poultry) and 1030000 (eggs)). For poultry and eggs hydrolysis is needed to cover the full residue definition (chlorpropham and 3-chloro-4-hydroxyaniline conjugates, expressed as chlorpropham)
Toxicity: ADI = 0.05 mg/kg bw/day, ARfD = 0.5 mg/kgbw

- ✓ 0.19 % findings EFSA 2012 report
- ✓ 0 % findings EFSA 2013 report
- ✓ 0% findings EFSA 2014 report (866 samples)
- ✓ 0% findings EFSA 2015 report (502 samples)
- ✓ 0% findings EFSA 2016 (1818 samples)
- ✓ 0% findings EFSA 2017 (1184 samples)

2% labs and 7% MS analysed full RD in 2018.
25% labs and 43% MS analysed full RD in 2020
Based on feeding studies, relevant for ruminant's and swine kidney

Chlorpropham has been successfully validated by the EURL-AO in various commodities of animal origin using a multiresidue approach. Numerous reports are available on-line (see EURL-Method Finder List). An analytical standard for chlorpropham is commercially available.

Support needed: Analytical method needs for 4-HSA and 3-chloro-4-hydroxyaniline conjugates need to be further optimized, validated and circulated. Act towards increasing the analytical coverage of the full residue definition by official labs

Fenpropidin – AO

No method available for full AO residue definition, standards of 2-methyl-2-[4-(2-methyl-3- piperidin-1-yl-propyl)-phenyl]propionic acid commercially not available
Toxicity: ADI = 0.02 mg/kg bw/day, ARfD = 0.02 mg/kg bw

- ✓ 0 % findings EFSA 2012 report
- ✓ 0 % findings EFSA 2013 report
- ✓ 0% finding EFSA 2014 report (356 samples)
- ✓ 0% findings EFSA 2015 report (294 samples)
- ✓ 0% findings EFSA 2016 report (1016 samples)
- ✓ 0% findings EFSA 2017 report (554 samples)

0% labs and 0% MS analysed full RD in 2018.
3% labs and 11% MS analysed full RD in 2020
Based on feeding studies, relevant for ruminant's and swine liver and kidney.

Fenpropidin has been successfully validated by the EURL-AO in various commodities of animal origin using a multiresidue approach. Numerous reports are available on-line (see EURL-Method Finder List). An analytical standard for fenpropidin is commercially available.
Fenpropidin carboxylic acid (CGA 289267) has been successfully validated by the EURL-SRM in various commodities of animal origin. A report is available on-line (SRM-36). An analytical standard for CGA 289267 is commercially available.

Support needed: Act towards increasing the analytical coverage of the full residue definition by official labs.

Fluazifop-P – AO

Method: SRM (hydrolysis required to cover the full residue definition).
Toxicological, occurrence and laboratory coverage data in §4.2.1
Fluazifop has been successfully validated by the EURL-AO (AO-M27) and the EURL-SRM (SRM-43) in various commodities of animal origin. The latter method also involved alkaline hydrolysis to cover conjugates. Analytical standard for fluazifop and fluazifop-P are commercially available and can be considered equivalent.

Support needed: Act towards increasing the analytical coverage of the full residue definition by official labs.

Fluopyram – AO

No method available for the full AO residue definition.
Toxicity: ADI = 0.012 mg/kg bw/day, ARfD=0.5 mg/kg bw

- ✓ 0 % findings EFSA 2012 report
- ✓ 0 % findings EFSA 2013 report (83 samples)
- ✓ 0% findings EFSA 2014 report (173 samples)
- ✓ 0% findings EFSA 2015 report (107 samples)
- ✓ 0% findings EFSA 2016 report (1138 samples)
- ✓ 0.23% findings EFSA 2017 report (2 of 870 samples)

6% labs and 15% MS analysed full RD in 2018
14% labs and 32% MS analysed full RD in 2020
Fluopyram has been successfully validated by the EURL-AO in various commodities of animal origin using a multiresidue approach (AO-M27 and -28). An analytical standard for fluopyram is commercially available.

Support needed: Conduct a validation study for fluopyram benzamide (M25) and circulate information. Act towards increasing the analytical coverage of the full residue definition by official labs.

Glyphosate (future residue definition 'sum of glyphosate, AMPA and N-acetylglyphosate) – AO

In the upcoming Art. 12 review the residue definition for glyphosate will be changed.
6% labs and 15% MS analysed full (future) RD in 2018.
Relevant commodities (see Annex I)
The EURL-SRM has published a method for glyphosate, N-acetyl glyphosate and AMPA (QuPPe-AO, SRM-25). An inter-laboratory validation for products of animal origin has been conducted and was successful.
Analytical standards of glyphosate, AMPA, N-acetyl glyphosate and their respective ILISs are commercially available.
Support needed: Act towards increasing the analytical coverage of the full (future) residue definition by official labs.

Haloxyfop – AO

Method: SRM (hydrolysis required to cover conjugates). Method for food of animal origin (including conjugates) is pending. Toxicological, occurrence and laboratory coverage data in AnnexIV.

Haloxyfop has been successfully validated by the EURL-AO (AO-M6 and -27) and the EURL-SRM (SRM-43) in various commodities of animal origin. The latter method also involved alkaline hydrolysis to cover conjugates. Analytical standard for haloxyfop and haloxyfop-P are commercially available and can be considered equivalent.

Support needed: Act towards increasing the analytical coverage of the full residue definition by official labs.

Ioxynil – AO

Method: SRM. Method for food of animal origin (including conjugates) is pending.
Toxicological, occurrence and laboratory coverage data in AnnexIV.

Ioxynil has been successfully validated by the EURL-AO (AO-M6 and -27) and the EURL-SRM (SRM-43) in various commodities of animal origin. An analytical standard for ioxynil is commercially available.

Support needed: Act towards increasing the analytical coverage by official labs.

Spiroxamine – AO

A method is available but the standard of the metabolite (Spiroxamine carboxylic acid metabolite M06) is not commercially available.
Toxicity: ADI = 0.025 mg/kg bw/day,ARfD = 0.1 mg/kgbw
- ✓ 0 % findings EFSA 2012 report (395 samples)
- ✓ 0 % findings EFSA 2013 report (428 samples)
- ✓ 0% findings EFSA 2014 report (636 samples)
- ✓ 0% findings EFSA 2015 report (92 samples)
- ✓ 0% findings EFSA 2016 report (84 samples)
- ✓ 0% findings EFSA 2017 report (850 samples)

3% labs and 11% MS analysed full RD in 2018.
7% labs and 14% MS analysed full RD in 2018
Based on feeding studies, relevant for cows' milk and liver.

Spiroxamine carboxylic acid (M06) has been successfully validated by the EURL-SRM (SRM-36) in various commodities of animal origin. An analytical standard for the metabolite M06 is commercially available.

Support needed: Act towards increasing the analytical coverage by official labs.

(b) Support required due to other reasons

Aminocyclopyrachlor – AO

Not approved in EU, recently approved outside EU
ADI 0-3 mg/kg bw day, ARfD N/A
Standard commercially available. Successfully validated by EURL-SRM using QuPPe in food of plant origin. Validation in fat, milk, liver and kidney was conducted and published in the QuPPe-AO document.
Based on feeding studies, relevant commodities animal fat, milk, liver and kidney.

Aminocyclopyrachlor has been successfully validated by the EURL-SRM (QuPPe-AO, SRM-25) in various commodities of animal origin. An analytical standard for aminocyclopyrachlor is commercially available but the corresponding ILIS is not available.

Support needed: Act towards increasing the analytical coverage by official labs.

Benzovindiflupyr – AO

Toxicological, occurrence and laboratory coverage data in AnnexIV.

Benzovindiflupyr has been successfully validated by the EURL-AO in various commodities of animal origin using a multiresidue approach (AO-M14 and -15). An analytical standard for benzovindiflupyr is commercially available.

Support needed: Conduct a validation study for benzovindiflupyr and circulate information. Act towards increasing the analytical coverage of the full residue definition by official labs.

Carbendazim and Thiophanate methyl – AO Toxicity: ADI = 0.02 mg/kg bw/day, ARfD = 0.02 mg/kgbw Method: MRM/SRM, Priority: 2A Evaluation after 2 years (10/2017)→10/2018→10/2019 ✓ 2.28% findings EFSA 2012 ✓ 0% findings EFSA 2013 (712 samples) ✓ 0.37% findings EFSA 2014 (1350 samples) ✓ 1.49% findings (0.00% MRL exceedances) EFSA 2015 ✓ 0.27% findings (0.00% MRL exceedances) EFSA 2016 ✓ 0.00% findings (0.00% MRL exceedances) EFSA 2017 51% labs and 68% MS analysed full RD in 2015 42% labs and 72% MS analysed full RD in 2016 38% labs and 64% MS analysed full RD in 2017 30% labs and 67% MS analysed full RD in 2018 36% labs and 64% MS analysed full RD in 20120 Relevant for honey.	
Maleic hydrazide – AO Method: SRM. QuPPe amenable but validation is needed for products of animal origin. Interlaboratory validation is ongoing. Toxicity: ADI = 0.25 mg/kg bw/day, ARfD NA Priority: 2B Evaluation after 2 years (10/2017) → 10/2018 ✓ No monitoring results available in EFSA 2012 report ✓ 0% findings EFSA 2013 report (15 samples) ✓ 0% findings EFSA 2014 report (46 samples) ✓ 0.00% findings (0.00% MRL exceedances) EFSA 2015 report (10 samples) ✓ 0.00% findings (0.00% MRL exceedances) EFSA 2016 report (46 samples) ✓ 0.00% findings (0.00% MRL exceedances) EFSA 2017 report (6 samples) 10% labs and 28% MS analysed full RD in 2015 12% labs and 36% MS analysed full RD in 2016 6% labs and 14% MS analysed full RD in 2017 6% labs and 15% MS analysed full RD in 2018 13% labs and 29% MS analysed full RD in 2020 Based on feeding studies, relevant for all commodities of animal origin. Maleic hydrazide has been successfully validated by the EURL-SRM (QuPPe-AO, SRM-25) in various commodities of animal origin. Analytical standards for maleic hydrazide and its corresponding ILIS are commercially available. **Support needed:** Act towards increasing the analytical coverage by official labs.	Mefentrifluconazole – AO Toxicological, occurrence and laboratory coverage data in §4.2.1. **Support needed:** Conduct a validation study for fluopyram benzamide and circulate information. Act towards increasing the analytical coverage by official labs.
Penflufen – AO Toxicological, occurrence and laboratory coverage data in §4.2.2. Penflufen has been successfully validated by the EURL-AO in various commodities of animal origin using a multiresidue approach (AO-M27 and -28). An analytical standard for penflufen is commercially available. **Support needed:** Conduct a validation study for penflufen and circulate information. Act towards increasing the analytical coverage of the full residue definition by official labs.	Sulfoxaflor – AO Toxicological, occurrence and laboratory coverage data in §4.2.2. Sulfoxaflor has been successfully validated by the EURL-AO in various commodities of animal origin using a multiresidue approach (AO-M27 and -28). An analytical standard for sulfoxaflor is commercially available. **Support needed:** Conduct a validation study for sulfoxaflor and circulate information. Act towards increasing the analytical coverage of the full residue definition by official labs.

Annex III: Substances that are of interest for cumulative risk assessment

EFSA is currently establishing common assessment groups for cumulative risk assessment. In order to have sufficient data to calculate the background exposure, monitoring results would be needed for compounds from the acute neurotoxicity group, the chronic neurotoxicity group and the thyroid group. Some of these pesticides are not taken up in the MACP or in chapter 4 of this document that lists pesticides that could be considered for future uptake in the MACP. However, since monitoring data for these substances would be of interest for the further development of the CRA methodology, they are listed in this annex, for information only.

- ✓ 2,4-DB (especially relevant for citrus fruits , pome fruits and chamomile)
- ✓ 8-hydroxyquinoline (especially interesting on tomatoes)
- ✓ Amitrole (especially relevant in wine)
- ✓ Cyhalofop-butyl (especially relevant for rice)
- ✓ Dazomet
- ✓ Flufenacet (especially relevant for beans with pods, grapes, potatoes, rye, oats, strawberries, leek, lettuce, wheat, cucumber and rice, celeriac, chives, currants, dill, fennel, raspberries, parsley and strawberries)
- ✓ Ioxynil (especially relevant for cereals, leek, lettuce, tomatoes, chives and dill)
- ✓ Isoxaflutole
- ✓ MCPA and MCPB (especially relevant for aubergines, cultivated fungi, head cabbage, table grapes, lettuce, peaches, wheat, rye and strawberries,chamomile, berries, cherries, mint, thyme, lentils paprika powder and tea)
- ✓ Milbemectin (relevant for strawberries)
- ✓ Metconazole (especially relevant for cereals)
- ✓ Molinate (especially relevant for carrots)
- ✓ Oxadiargyl
- ✓ Oxasulfuron
- ✓ Oxyfluorfen (especially relevant for sweet peppers, citrus fruits, olives, olive oil)
- ✓ Penflufen (especially interesting on rice)
- ✓ Picolinafen
- ✓ Pyridate (especially relevant for grapefruit, oranges, sweet pepper, avocado, Brussel's sprouts, celery, dill, leek, mandarins and tea) (SRM method, support EURLs needed)
- ✓ Pyriofenone (especially interesting on table grapes)
- ✓ Quinoclamine
- ✓ Quizalofop, including quizalfop-P (especially relevant for carrots, head cabbage, spinach, broccoli, spinach and potatoes, celeriac, parsley, coriander, caraway, fennel. herbs (dill, balm, basil, mint, thyme); beet, chard, artichoke and chicory)
- ✓ Sulfuryl fluoride (especially relevant for nuts, oilseeds and dried fruit)
- ✓ Thiencarbazone-methyl (especially interesting on oats, rice, rye and wheat)
- ✓ Tri-allate (especially relevant in broccoli and cauliflower)

Annex IV: Substances with a low level of findings

This annex contains substances for which few residues were detected during their evaluation under chapter 4. They were moved to this annex for information of the Member States that are interested of keeping them in their National Programmes as most of them are analysed by a large fraction of laboratories and Member States.

Pesticides relevant to products of plant origin

Previously listed in Chapter 4.1.1 (Frequent detections, MRL exceedances or RASFF notifications)

Amitraz (Not approved) – PO Method: SRM Toxicity: ADI 0.003 mg/kg bw/day, ARfD 0.01 mg/kg bw Priority 2A Evaluation after 2 years (10/2017) → 10/2018 ✓ 0.03% findings 2012 EFSA report ✓ 0.27% findings EFSA 2013 report ✓ 0.09% findings (0.01% MRL exceedances) EFSA 2014 ✓ 0.06% findings (0.04% MRL exceedances) EFSA 2015 ✓ 0.05% findings (0.03% MRL exceedances) EFSA 2016 ✓ 0.10% findings (0.02% MRL exceedances) EFSA 2017 ✓ 0.06% findings (0.02% MRL exceedances) EFSA 2018 ✓ 0.02% findings (0.01% MRL exceedances) EFSA 2019 ✓ 0.01% findings (0.02% MRL exceedances) EFSA 2020 14% labs and 54% MS analysed full RD in 2015 15% labs and 39% MS analysed full RD in 2016 14% labs and 9% MS analysed full RD in 2017 13% labs and 39% MS analysed full RD in 2018. ⇒ **Analytical coverage poor** ⇒ **Few findings** Especially relevant for sweet peppers, apples, tomatoes, aubergines, grapefruit, oranges, peaches and pears. Additionally relevant for chili peppers, honey, papaya, basil, green beans, okra, mandarins, cucumbers; not relevant for cereals.	Benalaxyl including other mixtures of constituent isomers including benalaxyl-M – PO Method: MRM Toxicity: ADI = 0.04 mg/kg bw/day, ARfD NA Priority: 1A Evaluation: after 1 year (10/2016) ✓ 0.1% findings in vegetables EFSA 2011 report ✓ 0.05% findings EFSA 2012 report ✓ 0.02% findings EFSA 2013 report ✓ 0.02% findings EFSA 2014 report ✓ 0.04% findings, 0.00% MRL exceedances 2015 EFSA ✓ 0.03% findings (0.00% MRL exceedances) EFSA 2016 ✓ 0.03% findings (0.00% MRL exceedances) EFSA 2017 ✓ 0.03% findings (0.00% MRL exceedances) EFSA 2018 ✓ 0.03% findings (0.00% MRL exceedances) EFSA 2019 ✓ 0.03% findings (0.00% MRL exceedances) EFSA 2020 66% labs and 85% MS analysed full RD in 2015 70% labs and 86% MS analysed full RD in 2018. ⇒ **Analytical coverage good** ⇒ **Few findings** Findings in lettuce, grapes, wine, tomatoes, sweet peppers, melons, strawberries
Chlorfluazuron (Not approved) – PO Toxicity: no toxicological reference values available Method: MRM Priority: 1B Evaluation: after 1 year (10/2018) ✓ 0.01% findings (0.01% MRL exceedances) EFSA 2013 ✓ 0.09% findings (0.09% MRL exceedances) EFSA 2014 ✓ 0.01% findings (0.02% MRL exceedances) EFSA 2015 ✓ 0.00% findings (0.02% MRL exceedances) EFSA 2016 ✓ 0.00% findings (0.02% MRL exceedances) EFSA 2017 ✓ 0.01% findings (0.01% MRL exceedances) EFSA 2018 ✓ 0.00% findings (0.00% MRL exceedances) EFSA 2019 ✓ 0.00% findings (0.00% MRL exceedances) EFSA 2020 30% labs and 46% MS analysed full RD in 2016 36% labs and 64% MS analysed full RD in 2017 37% labs and 64% MS analysed full RD in 2018. ⇒ **Analytical coverage poor** ⇒ **Few findings**	Clomazone – PO Method: MRM Toxicity: ADI = 0.133 mg/kg bw/day, ARfD NA Priority: 1B Evaluation: after 1 year (10/2016) ✓ 0.1% findings in vegetables (EFSA 2011 report) ✓ 0.05% findings EFSA 2012 report ✓ 0.03% findings EFSA 2013 report ✓ 0.04% findings EFSA 2014 report ✓ 0.08% findings, 0.01% MRL exceedances 2015 EFSA ✓ 0.04% findings (0.00% MRL exceedances) EFSA 2016 ✓ 0.05% findings (0.00% MRL exceedances) EFSA 2017 ✓ 0.04% findings (0.02% MRL exceedances) EFSA 2018 ✓ 0.02% findings (0.02% MRL exceedances) EFSA 2019 ✓ 0.02% findings (0.00% MRL exceedances) EFSA 2020 57% labs and 81 % MS analysed full RD in 2015 63% labs and 82% MS analysed full RD in 2018. ⇒ **Analytical coverage medium** ⇒ **Few findings** Findings in carrots and caulifower
Diafenthiuron (Not Approved) – PO *Added: 10/2018*	Diuron (Not Approved) – PO *Added: 10/2020*

Toxicity: no toxicological reference values available
Method: MRM/SRM, Priority: 1B
Evaluation: after 1 year
(10/2019)→10/2020→10/2021→10/2022→10/2023
✓ 0.03% findings (0.03% MRL exceedances) EFSA 2014
✓ 0.00% findings (0.01% MRL exceedances) EFSA 2015
✓ 0.02% findings (0.03% MRL exceedances) EFSA 2016
✓ 0.01% findings (0.02% MRL exceedances) EFSA 2017
✓ 0.01% findings (0.02% MRL exceedances) EFSA 2018
✓ 0.01% findings (0.00% MRL exceedances) EFSA 2019
✓ 0.02% findings (0.00% MRL exceedances) EFSA 2020
29% labs and 64% MS analysed full RD in 2018
30% labs and 65% MS analysed full RD in 2019
35% labs and 68% MS analysed full RD in 2020
42% labs and 64% MS analysed full RD in 2021
⇒ **Analytical coverage average**
⇒ **Few findings**
Analytical method influenced by matrix, but already included in a screening PT. Found in green beans and oranges.

Toxicity: ADI=0.007 mg/kg bw/day, ARfD 0.016 mg/kg bw
Method: MRM, Priority: 1B
Evaluation: after 1 year (10/2021)
✓ 0.02% findings (0.01% MRL exceedances) EFSA 2016
✓ 0.05% findings (0.01% MRL exceedances) EFSA 2017
✓ 0.06% findings (0.01% MRL exceedances) EFSA 2018
✓ 0.04% findings (0.00% MRL exceedances) EFSA 2019
✓ 0.01% findings (0.01% MRL exceedances) EFSA 2020
60% labs and 79% MS analysed full RD in 2020
⇒ **Analytical coverage good**
⇒ **Few findings**

Dinotefuran (Not Approved) – PO

Added: 10/2018

Toxicity: no toxicological reference values available
Method: MRM, Priority: 1B
Evaluation: after 1 year (10/2019)
✓ 0.07% findings (0.06% MRL exceedances) EFSA 2014
✓ 0.01% findings (0.03% MRL exceedances) EFSA 2015
✓ 0.03% findings (0.03% MRL exceedances) EFSA 2016
✓ 0.02% findings (0.03% MRL exceedances) EFSA 2017
✓ 0.00% findings (0.02% MRL exceedances) EFSA 2018
✓ 0.02% findings (0.04% MRL exceedances) EFSA 2019
✓ 0.04% findings (0.02% MRL exceedances) EFSA 2020
36% labs and 75% MS analysed full RD in 2018.
⇒ **Analytical coverage poor**
⇒ **Few findings**
Findings in green beans and rice, and tea (19 RASFF notifications in 2019)

Fenobucarb (Not Approved) – PO

Added: 10/2018

Toxicity: no toxicological reference values available
Method: MRM
Priority: 1B
Evaluation: after 1 year (10/2019)
✓ 0.09% findings (0.06% MRL exceedances) EFSA 2014
✓ 0.00% findings (0.02% MRL exceedances) EFSA 2015
✓ 0.06% findings (0.01% MRL exceedances) EFSA 2016
✓ 0.03% findings (0.01% MRL exceedances) EFSA 2017
✓ 0.01% findings (0.02% MRL exceedances) EFSA 2018
✓ 0.00% findings (0.01% MRL exceedances) EFSA 2019
✓ 0.00% findings (0.01% MRL exceedances) EFSA 2020
33% labs and 50% MS analysed full RD in 2018.
⇒ **Analytical coverage poor**
⇒ **Few findings**
Findings in green beans, tomatoes, rice and citrus fruits.

Forchlorfenuron – PO

Added: 10/2020

Toxicity: ADI = 0.05 mg/kg bw/day, ARfD 0.5 mg/kg bw
Method: MRM, Priority: 1A
Evaluation: after 1 year (10/2021)
✓ 0.09% findings (0.01% MRL exceedances) EFSA 2016
✓ 0.04% findings (0.02% MRL exceedances) EFSA 2017
✓ 0.03% findings (0.01% MRL exceedances) EFSA 2018
✓ 0.04% findings (0.00% MRL exceedances) EFSA 2019
✓ 0.02% findings (0.03% MRL exceedances) EFSA 2020
40% labs and 75% MS analysed full RD in 2020
⇒ **Analytical coverage good**
⇒ **Few findings**

Found in table grapes (2015, 2018), sweet peppers (2015), kiwi.

Heptachlor (Not approved) – PO

Method: MRM
Toxicity: ADI = 0.0001 mg/kg bw/day, ARfD = NA
Priority: 1A
Evaluation: after 1 year (10/2016)
✓ 0.3% findings in animal commodities, 0.1% in vegetables EFSA 2011 report
✓ 0.06% findings EFSA 2012 report
✓ 0.05% findings EFSA 2013 report
✓ 0.02% findings EFSA 2014 report
✓ 0.01% findings, 0.00% MRL exceedances 2015 EFSA
✓ 0.02% findings (0.00% MRL exceedances) EFSA 2016
✓ 0.00% findings (0.00% MRL exceedances) EFSA 2017
✓ 0.00% findings (0.00% MRL exceedances) EFSA 2018
✓ 0.00% findings (0.00% MRL exceedances) EFSA 2019
✓ 0.01% findings (0.00% MRL exceedances) EFSA 2020
67% labs and 92% MS analysed full RD in 2015
58% labs and 86% MS analysed full RD in 2018.
⇒ **Analytical coverage good**
⇒ **Few findings**

Novaluron (not approved) – PO
Added: 10/2017

Toxicity: ADI = 0.01 mg/kg bw/day, ARfD NA
Method: MRM, Priority: 1A
Evaluation: after 1 year (10/2018) →10/2019
✓ 0.14% findings (0.00% MRL exceedances) EFSA 2013
✓ 0.12% findings (0.00% MRL exceedances) EFSA 2014
✓ 0.06% findings (0.00% MRL exceedances) EFSA 2015
✓ 0.05% findings (0.00% MRL exceedances) EFSA 2016
✓ 0.07% findings (0.00% MRL exceedances) EFSA 2017
✓ 0.04% findings (0.00% MRL exceedances) EFSA 2018
✓ 0.01% findings (0.00% MRL exceedances) EFSA 2019
✓ 0.03% findings (0.00% MRL exceedances) EFSA 2020
45% labs and 58% MS analysed full RD in 2016
49% labs and 71% MS analysed full RD in 2017
48% labs and 71% MS analysed full RD in 2018
⇒ **Analytical coverage medium**
⇒ **Low findings**
Found in apples, pears, tomatoes
Import tolerances for apples, blueberries, tomatoes, cotton seeds (all US).

Phenmedipham (Approved) – PO
Added: 10/2021

Toxicity: ADI = 0.03 mg/kg bw/day, ARfD NA
Method: MRM, Priority: 1A
Evaluation: after 1 year (10/2022)
✓ 0.07% findings (0.01% MRL exceedances) EFSA 2017
✓ 0.07% findings (0.01% MRL exceedances) EFSA 2018
✓ 0.01% findings (0.03% MRL exceedances) EFSA 2019
✓ 0.04% findings (0.00% MRL exceedances) EFSA 2020
60% labs and 82% MS analysed full RD in 2021
⇒ **Analytical coverage good**
⇒ **Few findings**

Found in spinaches, lettuces and strawberries

Quintozene (Not approved) – PO

Method: MRM
Toxicity: ADI = 0.01 mg/kg bw/day, ARfD NA
Priority: 1A
Evaluation: after 1 year (10/2016)
✓ % findings EFSA 2011 report
✓ 0.04% findings EFSA 2012 report
✓ 0.01% findings EFSA 2013 report
✓ 0.03% findings EFSA 2014 report
✓ 0.02% findings, 0.00% MRL exceedances 2015 EFSA
✓ 0.01% findings, 0.00% MRL exceedances 2016 EFSA
✓ 0.01% findings, 0.00% MRL exceedances 2017 EFSA
✓ 0.01% findings, 0.00% MRL exceedances 2018 EFSA
✓ 0.02% findings, 0.00% MRL exceedances 2019 EFSA
✓ 0.02% findings, 0.00% MRL exceedances 2020 EFSA
48% labs and 89% MS analysed full RD in 2015
46% labs and 79% MS analysed full RD in 2018.
⇒ **Analytical coverage medium**
⇒ **Low findings**

Quinalphos (not approved) – PO
Added: 10/2018

Toxicity: no toxicological reference values available
Method: MRM
Priority: 1B
Evaluation: after 1 year (10/2019)
✓ 0.02% findings (0.01% MRL exceedances) EFSA 2014
✓ 0.02% findings (0.01% MRL exceedances) EFSA 2015
✓ 0.01% findings (0.01% MRL exceedances) EFSA 2016
✓ 0.00% findings (0.00% MRL exceedances) EFSA 2017
✓ 0.01% findings (0.00% MRL exceedances) EFSA 2018
✓ 0.01% findings (0.01% MRL exceedances) EFSA 2019
✓ 0.00% findings (0.00% MRL exceedances) EFSA 2020
71% labs and 89% MS analysed full RD in 2018.
⇒ **Good analytical coverage**
⇒ **Low findings**
Found in peas with pods

Tetramethrin (Not approved) – PO

Toxicity: no toxicological reference values available
Method: MRM
Priority: 1B
Evaluation after 1 year (10/2016)→ 10/2018
✓ 0.02% findings EFSA 2012 report
✓ 0.02% findings EFSA 2013 report
✓ 0.04% findings (0.01% MRL exceedances) EFSA 2014
✓ 0.00% findings (0.01% MRL exceedances) EFSA 2015
✓ 0.01% findings (0.01% MRL exceedances) EFSA 2016
✓ 0.01% findings (0.01% MRL exceedances) EFSA 2017
✓ 0.01% findings (0.03% MRL exceedances) EFSA 2018
✓ 0.01% findings (0.03% MRL exceedances) EFSA 2019
✓ 0.01% findings (0.03% MRL exceedances) EFSA 2020
68% labs and 92% MS analysed full RD in 2015
70% labs and 93% MS analysed full RD in 2018.
⇒ **Low findings**
⇒ **Good analytical coverage**
Found in green beans, citrus fruits, cereals.

Tolfenpyrad (not approved) – PO
Added: 10/2018

Toxicity: no toxicological reference values available
Method: MRM, Priority: 1B
Evaluation: after 1 year (10/2019)→ 10/2020
✓ 0.14% findings (0.11% MRL exceedances) EFSA 2014
✓ 0.19% findings (0.00% MRL exceedances) EFSA 2015
✓ 0.04% findings (0.04% MRL exceedances) EFSA 2016
✓ 0.03% findings (0.05% MRL exceedances) EFSA 2017
✓ 0.00% findings (0.13% MRL exceedances) EFSA 2018
✓ 0.01% findings (0.10% MRL exceedances) EFSA 2019
✓ 0.01% findings (0.05% MRL exceedances) EFSA 2020
23% labs and 64% MS analysed full RD in 2018
33% labs and 70% MS analysed full RD in 2019
⇒ **Analytical coverage poor**
⇒ **Low findings**
Relevant for tea. **Not found in any EU MACP commodity.**

Trifluralin (not approved) – PO
Added: 10/2018

Toxicity: ADI = 0.015mg/kg bw/day
Method: SRM, Priority: 2B
Evaluation: after 2 years (10/2020)
- ✓ 0.02% findings (0.01% MRL exceedances) EFSA 2014
- ✓ 0.01% findings (0.01% MRL exceedances) EFSA 2015
- ✓ 0.01% findings (0.01% MRL exceedances) EFSA 2016
- ✓ 0.01% findings (0.00% MRL exceedances) EFSA 2017
- ✓ 0.00% findings (0.00% MRL exceedances) EFSA 2018
- ✓ 0.01% findings (0.00% MRL exceedances) EFSA 2019
- ✓ 0.00% findings (0.00% MRL exceedances) EFSA 2020

No data on analytical coverage
80% labs and 93% MS analysed full RD in 2018
⇒ **Analytical coverage good**
⇒ **Low findings**
Found in carrots.

Previously listed in Chapter 4.1.2 (Recently Approved)

Benzovindiflupyr – PO
Approved since 03/2016

Toxicity: ADI 0-0.05 mg/kg bw day, ARfD 0.1 mg/kg bw
Method: MRM, Priority 1A
Evaluation: after 1 year (10/2017) →10/2018→10/2019→ 10/2020
- ✓ No EFSA monitoring data for 2012, 2013, 2014, 2015.
- ✓ In 2016 and 2017 analysed but not detected.
- ✓ 0.01% findings (0.00% MRL exceedances) EFSA 2018
- ✓ 0.01% findings (0.00% MRL exceedances) EFSA 2019
- ✓ 0.03% findings (0.00% MRL exceedances) EFSA 2020

2% labs and 8% MS analysed full RD in 2015
14.4% labs and 50% MS analysed full RD in 2016
24% labs and 46% MS analysed full RD in 2017
22% labs and 57% MS analysed full RD in 2017
35% labs and 70% MS analysed full RD in 2019
⇒ **Analytical coverage poor**
⇒ **Findings too low**
Relevant commodities: soybean, wheat, apples, grapes, pears, peanuts, potatoes and barley and maize

Fluxapyroxad – PO
Approved since 01/2013

Toxicity: ADI = 0.02 mg/kg bw/day, ARfD = 0.25 mg/kgbw
Method: MRM, Priority: 1A
Evaluation: after 1 year (10/2016, extended to 10/2017)
- ✓ 0% findings EFSA 2012 report
- ✓ 0.12% findings EFSA 2013 report
- ✓ 0.01% findings EFSA 2014 report
- ✓ 0.04% findings (0.01% MRL exceedances) EFSA 2015 report (19016 samples)
- ✓ 0.01% findings (0.00% MRL exceedances) EFSA 2016 report (21906 samples)
- ✓ 0.12% findings (0.00% MRL exceedances) EFSA 2017 report (39397 samples)
- ✓ 0.48% findings (0.00% MRL exceedances) EFSA 2018
- ✓ 0.97% findings (0.00% MRL exceedances) EFSA 2019
- ✓ 1.27% findings (0.01% MRL exceedances) EFSA 2020

42% labs and 85% MS analysed full RD in 2015
45% labs and 81% MS analysed full RD in 2016
51% labs and 89% MS analysed full RD in 2018.
⇒ **Medium analytical coverage**
Found in apples, pears, cereals, cabbages, grapes, wine, lettuce, peaches, aubergines, tomatoes, sweet peppers, strawberries.

Isopyrazam (not approved)– PO
Approved since 4/2013

Method: MRM
Toxicity: ADI = 0.03 mg/kg bw/day, ARfD = 0.2 mg/kg bw
Priority: 1A
Evaluation: after 1 year (10/2016) extended with an extra year (10/2017)
- ✓ No monitoring results EFSA 2012 report
- ✓ 0% findings EFSA 2013 report (473 samples)
- ✓ 0% findings EFSA 2014 report
- ✓ 0.04% findings (0.00% MRL exceedances) EFSA 2015 report (2668 samples)
- ✓ 0.05% findings (0.00% MRL exceedances) EFSA 2016 report (6568 samples)
- ✓ 0.11% findings (0.01% MRL exceedances) EFSA 2017 report (22042 samples)
- ✓ 0.01% findings (0.00% MRL exceedances) EFSA 2018
- ✓ 0.02% findings (0.00% MRL exceedances) EFSA 2019
- ✓ 0.12% findings (0.00% MRL exceedances) EFSA 2020

27% labs and 69% MS analysed full RD in 2015
42% labs and 73% MS analysed full RD in 2016
41% labs and 75% MS analysed full RD in 2018.
⇒ **Analytical coverage medium**
⇒ **Findings don't justify inclusion in EU MACP**
Findings in apples, carrots, cereals (rye, barley), tomatoes

Penflufen – PO
Approved since 02/2014

Toxicity:ADI = 0.04 mg/kg bw/day, ARfD = 0.5 mg/kg bw
Method: MRM
Priority: 1A
Evaluation: after 1 year (10/2017) → 10/2018
- ✓ No monitoring data available EFSA 2012, 2013 or 2014
- ✓ N.D. EFSA 2015, 2016 (4161 samples), 2017 (18821), 2018, 2019, 2020

14% labs and 46% MS analysed full RD in 2015
26% labs and 65% MS analysed full RD in 2016
33% labs and 57% MS analysed full RD in 2017
30% labs and 68% MS analysed full RD in 2018.

⇒ **Analytical coverage poor**
⇒ **Low findings**

Penthiopyrad – PO
Approved since 5/2014

Method: MRM
Toxicity: ADI = 0.1 mg/kg bw/day, ARfD = 0.75 mg/kg bw
Priority: 1B
Evaluation: after 1 year (10/2017)
- ✓ No monitoring data available EFSA 2012 report
- ✓ No monitoring data available EFSA 2013 report
- ✓ 0.08% findings EFSA 2014 report
- ✓ 0.04% findings (0.00% MRL exceedances) EFSA 2015 report (2595 samples)
- ✓ 0.06% findings (0.00% MRL exceedances) EFSA 2016 report (8298 samples)
- ✓ 0.07% findings (0.00% MRL exceedances) EFSA 2017 report (25192 samples)
- ✓ 0.06% findings (0.00% MRL exceedances) EFSA 2018
- ✓ 0.13% findings (0.01% MRL exceedances) EFSA 2019
- ✓ 0.13% findings (0.00% MRL exceedances) EFSA 2020

19% labs and 50% MS analysed full RD in 2015
40% labs and 77% MS analysed full RD in 2016
41% labs and 79% MS analysed full RD in 2018.
⇒ **Analytical coverage medium**
⇒ **Findings don't justify inclusion in EU MACP**

Findings in aubergines, apples, pears, lettuce, strawberries, tomatoes, spinach

Previously listed in Chapter 4.1.4 (High toxicity)

Ethoprophos (not approved) – PO

Toxicity:ADI =0.0004 mg/kg bw/day, ARfD = 0.01 mg/kgbw
Method: MRM
Priority: 1A
Evaluation: after 1 year (10/2016)

✓ 0.01% findings EFSA 2012 report ✓ 0.02% findings EFSA 2013 report ✓ 0.01% findings EFSA 2014 report ✓ 0.01% findings, 0.00% MRL exceedances 2015 EFSA ✓ 0.01% findings, 0.00% MRL exceedances 2016 EFSA ✓ 0.00% findings, 0.00% MRL exceedances 2017 EFSA ✓ 0.00% findings (0.00% MRL exceedances) 2018 EFSA ✓ 0.01% findings (0.00% MRL exceedances) 2019 EFSA ✓ 0.00% findings (0.00% MRL exceedances) 2020 EFSA 83% labs and 100% MS analysed full RD in 2015 80% labs and 93% MS analysed full RD in 2018. EURL comment: a lot of laboratories use this as an internal standard. If there are significant findings then this practice is called into question. Also this compound is unstable in protic solvents and therefore is unlikely to be found ⇒ **Analytical coverage good** ⇒ **Few findings** Findings reported in green beans, sweet peppers, orange juice, peaches.	

Previously listed in Chapter 4.1.5 (Voluntary in Reg. (EU) N° 788/2012)

<u>Phenthoate (Not approved) – PO</u> Footnote i) in Reg. (EC) N° 788/2012 Method MRM Toxicity: ADI = 0.003 mg/kg bw/day, ARfD NA Priority: 1A Evaluation after 1 year (10/2016) ✓ 0.01% findings EFSA 2012 report ✓ 0% findings EFSA 2013 report ✓ 0.03% findings EFSA 2014 report ✓ 0.01% findings, 0.00% MRL exceedances 2015 EFSA ✓ 0.01% findings, 0.01% MRL exceedances 2016 EFSA ✓ 0.01% findings, 0.00% MRL exceedances 2017 EFSA ✓ 0.00% findings, 0.01% MRL exceedances 2018 EFSA ✓ 0.01% findings, 0.00% MRL exceedances 2019 EFSA ✓ 0.00% findings, 0.01% MRL exceedances 2020 EFSA 78% labs and 100% MS analysed full RD in 2015 68% labs and 93% MS analysed full RD in 2018. ⇒ **Analytical coverage good** ⇒ **Few findings** Findings reported in oranges and rice	<u>Prothiofos (Not approved) – PO</u> Footnote g) in Reg. (EC) N° 788/2012 Method: MRM Toxicity: no ADI or ARfD available in database Priority: 1B Evaluation after 1 year (10/2016) ✓ 0.01% findings EFSA 2012 report ✓ 0.01% findings EFSA 2013 report ✓ 0.01% findings EFSA 2014 report ✓ 0.01% findings, 0.00% MRL exceedances 2015 EFSA ✓ 0.00% findings, 0.00% MRL exceedances 2016 EFSA ✓ 0.00% findings, 0.01% MRL exceedances 2017 EFSA ✓ 0.01% findings, 0.01% MRL exceedances 2018 EFSA ✓ 0.00% findings, 0.00% MRL exceedances 2019 EFSA ✓ 0.01% findings, 0.01% MRL exceedances 2020 EFSA 66% labs and 96% MS analysed full RD in 2015 66% labs and 93% MS analysed full RD in 2018. ⇒ **Low findings** ⇒ **Substance mainly of interest for imported commodities** ⇒ **Good analytical coverage** Findings reported in citrus fruits, aubergines and wheat
<u>Rotenone (Not approved) – PO</u> Footnote g) in Reg. (EC) N° 788/2012 Method: MRM Toxicity: no ADI or ARfD in database Priority: 1B Evaluation after 1 year (10/2016) ✓ 0% findings EFSA 2012 report ✓ 0% findings EFSA 2013 report ✓ 0.01% findings EFSA 2014 report ✓ 0.00% findings, 0.00% MRL exceedances 2015 EFSA ✓ 0.00% findings, 0.00% MRL exceedances 2016 EFSA ✓ 0.00% findings, 0.00% MRL exceedances 2017 EFSA ✓ 0.01% findings, 0.00% MRL exceedances 2018 EFSA ✓ 0.01% findings, 0.00% MRL exceedances 2019 EFSA ✓ 0.01% findings, 0.00% MRL exceedances 2020 EFSA 50% labs and 89% MS analysed full RD in 2015 52% labs and 8% MS analysed full RD in 2018. ⇒ **Low findings** ⇒ **Medium analytical coverage**	<u>Triticonazole – PO</u> Footnote i) in Reg. (EC) N° 788/2012 Method: MRM Toxicity ADI = 0.025 mg/kg bw/day, ARfD = 0.05 mg/kg bw Priority: 1A Evaluation after 1 year (10/2016) ✓ 0% findings EFSA 2012 report ✓ 0% findings EFSA 2013 report ✓ 0.02% findings EFSA 2014 report ✓ 0.01% findings, 0.01% MRL exceedances 2015 EFSA ✓ 0.00% findings, 0.00% MRL exceedances 2016 EFSA ✓ 0.00% findings, 0.00% MRL exceedances 2017 EFSA ✓ 0.01% findings, 0.00% MRL exceedances 2018 EFSA ✓ 0.01% findings, 0.00% MRL exceedances 2019 EFSA ✓ 0.01% findings, 0.00% MRL exceedances 2020 EFSA 77% labs and 100% MS analysed full RD in 2015 76% labs and 96% MS analysed full RD in 2018. ⇒ **Low findings** ⇒ **Good analytical coverage** Findings reported in pears and rice

Pesticides for analysis in products of animal origin

Previously listed in Chapter 4.2.1 (Frequent detections, MRL exceedances or RASFF notification)

Azinphos ethyl (Not approved) – AO

Method: MRM
Toxicity: no toxicological information available
Priority: 1B
Evaluation after 1 year (10/2017)
- ✓ 0% findings EFSA 2012 report
- ✓ 0.12% findings EFSA 2013 report
- ✓ 0% findings EFSA 2014 report
- ✓ 0.00% findings (0.00% MRL exceedances) EFSA 2015 report (73 samples)
- ✓ 0.00% findings (0.00% MRL exceedances) EFSA 2016 report (2092 samples)
- ✓ 0.00% findings (0.00% MRL exceedances) EFSA 2017 report (3984 samples)
- ✓ 0.00% findings, 0.00% MRL exceedances 2018 EFSA
- ✓ 0.04% findings, 0.00% MRL exceedances 2019 EFSA
- ✓ 0.00% findings, 0.00% MRL exceedances 2020 EFSA

62% labs and 92% MS analysed full RD in 2015
65% labs and 93% MS analysed full RD in 2018.
⇒ **Analytical coverage good**
⇒ **Low findings**
Based on feeding studies, relevant for animal muscle and fat. Found in cow milk.

Endrin (Not approved) – AO
Added: 10/2018

Toxicity: ADI 0.0002 mg/kg bw/day, ARfD NA
Method: MRM, Priority: 1A
Evaluation: after 1 years (10/2019)
- ✓ 0.05 % findings (0.00% MRL exceedances) EFSA 2014
- ✓ 0.30 % findings (0.00% MRL exceedances) EFSA 2015
- ✓ 0.04 % findings (0.00% MRL exceedances) EFSA 2016
- ✓ 0.04% findings (0.00% MRL exceedances) EFSA 2017
- ✓ 0.00% findings (0.00% MRL exceedances) EFSA 2018
- ✓ 0.00% findings (0.00% MRL exceedances) EFSA 2019
- ✓ 0.00% findings (0.00% MRL exceedances) EFSA 2020

77% labs and 96% MS analysed full RD in 2018.
⇒ **Analytical coverage good**
⇒ **Low findings**
Experts indicated findings on liver.

Fenpyrazamine – AO
Approved since 01/2013

Toxicity: ADI = 0.13 mg/kg bw/day, ARfD = 0.3 mg/kgbw
Method: MRM
Priority: 1B
Evaluation: after 1 year (10/2017) → 10/2018→10/2019
- ✓ No EFSA monitoring data for 2014
- ✓ N.D. EFSA 2015, 2016, 2017 (127 samples), 2018, 2019, 2020

14.3% labs and 36% MS analysed full RD in 2015
17.3% labs and 44% MS analysed full RD in 2016
21% labs and 36% MS analysed full RD in 2017
18% labs and 44% MS analysed full RD in 2018.
⇒ **Analytical coverage poor**
⇒ **No findings**
This substance is not expected to leave significant residues in food of animal origin.

Fenpropimorph (Not approved) – AO

Method MRM/ SRM. The standard for metabolite fenpropimorph carboxylic acid is now commercially available. Successful validation at 0.01 mg/kg by EURL-SRM using QuEChERS without PSA cleanup in milk and swine meat..
Toxicity: ADI = 0.003mg/kg bw/day,ARfD = 0.03 mg/kgbw
- ✓ 0 % findings EFSA 2012 report (396 sample)
- ✓ 0 % findings EFSA 2013 report (453 samples)
- ✓ 0% findings EFSA 2014 report (238 samples)
- ✓ 0% findings EFSA 2015 report (154 samples)
- ✓ 0% findings EFSA 2016 report (2064samples)
- ✓ 0% findings EFSA 2017 report (919 samples)
- ✓ 0% findings EFSA 2018, 2019, 2020

6% labs and 15% MS analysed full RD in 2018.
According to feeding studies relevant for ruminant's fat, swine and ruminant's muscle, liver and kidney and cow's milk.

Haloxyfop (Not approved) – AO

Toxicity: ADI=0.00065 mg/kg bw/day, ARfD=0.075 mg/kgbw
Method: SRM (hydrolysis required to cover conjugates)
Priority: 2A
Evaluation after 2 years (10/2017) → 10/2018
- ✓ 0 % findings EFSA 2012 report
- ✓ 0% findings EFSA 2013 report (171 samples)
- ✓ 0% findings EFSA 2014 report (258 samples)
- ✓ N.D EFSA 2015 (16 samples)
- ✓ N.D EFSA 2016 (708 samples)

Ioxynil (Not approved) – AO

Toxicity: ADI = 0.005 mg/kg bw/day, ARfD 0.04 mg/kg bw
Method: SRM
Priority: 2A
Evaluation after 2 years (10/2017) → 10/2018
- ✓ No monitoring results available in EFSA 2012 report
- ✓ 0% findings EFSA 2013 report (177 samples)
- ✓ 0% findings EFSA 2014 report (563 samples)
- ✓ N.D EFSA 2015 report (21 samples)

✓ 0.04% findings EFSA 2017 (1 of 2603 samples) ✓ 0% findings EFSA 2018, 2019, 2020 14% labs and 40% MS analysed full RD in 2015 9% labs and 24% MS analysed full RD in 2016 4% labs and 0% MS analysed full RD in 2017 6% labs and 15% MS analysed full RD in 2018. ⇒ **Analytical coverage poor** ⇒ **No findings** Based on feeding studies, relevant for cows' milk, kidney, liver, butter and poultry fat.	✓ N.D EFSA 2016 report (44 samples) ✓ N.D EFSA 2017 report (38 samples) ✓ 0% findings EFSA 2018, 2019, 2020 4% labs and 12% MS analysed full RD in 2015 6% labs and 16% MS analysed full RD in 2016 3% labs and 7% MS analysed full RD in 2017 7% labs and 22% MS analysed full RD in 2018. ⇒ **Analytical coverage poor** ⇒ **No findings** Based on feeding studies, relevant for ruminant fat, muscle, kidney and liver.

Previously listed in Chapter 4.2.3 (Voluntary in Reg. (EU) N° 788/2012)

Benzovindiflupyr – AO *Approved since 03/2016* Toxicity: ADI 0-0.05 mg/kg bw day, ARfD 0.1 mg/kg bw Method: MRM Priority 1A Evaluation: after 1 year (10/2017) -> 10/2018 ✓ No EFSA monitoring data for 2012, 2013, 2014, 2015, 2016. ✓ N.D EFSA 2017 report (103 samples), 2018, 2019 ✓ 0.12 % findings EFSA 2020 0% labs and 0% MS analysed full RD in 2015 4.9% labs and 16% MS analysed full RD in 2016 13% labs and 29% MS analysed full RD in 2017 13% labs and 33% MS analysed full RD in 2018. ⇒ **Analytical coverage poor** ⇒ **Not clear if findings justify inclusion in EU MACP** ⇒ **Already kept in chapter 4 of WD for an extra year.** Based on feeding studies, relevant for animal fat and liver.	Bixafen – AO *Approved since 01/2013* Remark in Reg. (EC) N° 788/2012: 'To be analysed on voluntary basis in milk and swine meat (2013) and butter and egg (2015). Not relevant for commodities listed in 2014.' Method: MRM Toxicity: ADI = 0.02 mg/kg bw/day, ARfD = 0.2 mg/kg bw Priority 1A. Evaluation after 1 year (10/2017) ✓ 0 % findings EFSA 2012 report (133 samples) ✓ 0 % findings EFSA 2013 report (527 samples) ✓ 0 % findings EFSA 2014 report (480samples) ✓ 0.00% findings (0.00% MRL exceedances) EFSA 2015 report (22854 samples) ✓ 0.00% findings (0.00% MRL exceedances) EFSA 2016 report (104 samples) ✓ 0.00% findings (0.00% MRL exceedances) EFSA 2017 report (1139 samples) ✓ N.D EFSA 2018, 2019, 2020 0% labs and 0% MS analysed full RD in 2015 1% labs and 4% MS analysed full RD in 2016 4% labs and 4% MS analysed full RD in 2018. ⇒ **Analytical coverage poor** ⇒ **No findings** Based on feeding studies, relevant for cows' milk, animal muscle and fat, butter and eggs.

Chlorobenzilate (not approved) – AO

Footnotes g) and i) in Reg. (EC) N° 788/2012.
Method: MRM
Toxicity: ADI = 0.02 mg/kg bw/day, ARfD NA
Priority: 1A
Evaluation after 1 year (10/2016)
- ✓ 0.96 % findings EFSA 2012 report
- ✓ 0.03% findings EFSA 2013 report
- ✓ 0.05% findings EFSA 2014 report
- ✓ 0.00% findings, 0.00% MRL exceedances 2015 EFSA
- ✓ 0.14% findings, 0.00% MRL exceedances 2016 EFSA
- ✓ N.D EFSA 2017 report (2233 samples)

55% labs and 84% MS analysed full RD in 2015
48% labs and 82% MS analysed full RD in 2018.
Based on feeding studies, relevant for animal fat, milk and eggs.
⇒ **Analytical coverage medium**
⇒ **Findings don't justify inclusion in EU MACP**

Cyfluthrin (Not approved) – AO

Footnote i) in Reg. (EC) N° 788/2012
Method: MRM
Toxicity: ADI = 0.003 mg/kg bw/day, ARfD = 0.02 mg/kg bw
Priority: 1A
Evaluation after 1 year (10/2016)
- ✓ 0 % findings EFSA 2012 report
- ✓ 0% findings EFSA 2013 report (3531 samples)
- ✓ 0% findings EFSA 2014 report (4189 samples)
- ✓ 0% findings EFSA 2015
- ✓ N.D EFSA 2016 report (2888 samples)
- ✓ N.D EFSA 2017 report (2365 samples)

82% labs and 96% MS analysed full RD in 2015
58% labs and 82% MS analysed full RD in 2018.
Based on feeding studies, relevant for animal fat.
⇒ **Analytical coverage good**
⇒ **No findings**

Cyproconazole (Not approved) – AO

No footnote, remark in Reg. (EC) N° 788/2012: 'To be analysed on voluntary basis in liver (2014), it does not need to be analysed in poultry meat (2014). Not relevant for commodities listed in 2013/2015.'
Method: MRM
Toxicity: ADI = 0.02 mg/kg bw/day, ARfD = 0.02 mg/kg bw
Priority: 1A
Evaluation after 1 year (10/2016)
- ✓ 0 % findings EFSA 2012 report
- ✓ 0% findings EFSA 2013 report (902 samples)
- ✓ 0% findings EFSA 2014 report (2164 samples)
- ✓ 0 % findings EFSA 2015 report
- ✓ 0 % findings EFSA 2016 report (2169 samples)
- ✓ 0 % findings EFSA 2017 report (1813 samples)

46% labs and 76% MS analysed full RD in 2015
37% labs and 67% MS analysed full RD in 2018.
Based on feeding studies, relevant for liver.
⇒ **Analytical coverage medium**
⇒ **No findings**

Dichlorprop– AO

Approved since 01/2007 (dichlorprop-P)

No footnote, remark in Reg. (EC) N° 788/2012: 'To be analysed on voluntary basis in liver (2014), it does not need to be analysed in poultry meat (2014). Not relevant for commodities listed in 2013/2015.'
Method: SRM (hydrolysis required to cover conjugates)
Toxicity: no ADI or ARfD in COM database, non-approved substance
Priority: 2B
Evaluation after 2 years (10/2017)
- ✓ 0 % findings EFSA 2012 report (124 samples)
- ✓ 0 % findings EFSA 2013 report (234samples)
- ✓ 0 % findings EFSA 2014 report (531 samples)
- ✓ 0.00% findings (0.00% MRL exceedances) EFSA 2015 report (53 samples)
- ✓ 0.00% findings (0.00% MRL exceedances) EFSA 2016 report (111 samples)
- ✓ N.D EFSA 2017 report (48 samples)

16% labs and 40% MS analysed full RD in 2015
27% labs and 44% MS analysed full RD in 2016
21% labs and 59% MS analysed full RD in 2018.
⇒ **Analytical coverage poor**
⇒ **No findings**
Based on feeding studies, relevant for liver and kidney.

Epoxiconazole (Not approved) – AO

No footnote, remark in Reg. (EC) N° 788/2012: 'To be analysed on voluntary basis in liver (2014), it does not need to be analysed in poultry meat (2014). Not relevant for commodities listed in 2013/2015.'
Method: MRM
Toxicity: ADI = 0.008 mg/kg bw/day, ARfD = 0.023 mg/kg bw
Priority: 1A
Evaluation after 1 year (10/2016)

Etofenprox – AO

Approved since 01/2010

No footnote, remark in Reg. (EC) N° 788/2012: 'To be analysed on voluntary basis in milk (2013) and butter (2015), it does not need to be analysed in swine meat (2013) and egg (2015). Not relevant for commodities listed in 2014.'
Method: MRM
Toxicity: ADI = 0.03 mg/kg bw/day, ARfD = 1 mg/kg bw
Priority: 1A
Evaluation after 1 year (10/2016)

✓ 0 % findings EFSA 2012 report ✓ 0 % findings EFSA 2013 report (854 samples) ✓ 0 % findings EFSA 2014 report (1848 samples) ✓ 0.00% findings, 0.00% MRL exceedances 2015 EFSA data ✓ 0 % findings EFSA 2016 report (2104 samples) ✓ 0 % findings EFSA 2017 report (1989 samples) 43% labs and 76% MS analysed full RD in 2015 37% labs and 63% MS analysed full RD in 2018. Based on feeding studies, relevant for liver. ⇒ **Analytical coverage medium** ⇒ **No findings**	✓ 0 % findings EFSA 2012 report ✓ 0 % findings EFSA 2013 report (1366 samples) ✓ 0 % findings EFSA 2014 report (1959 samples) ✓ 0.00% findings, 0.00% MRL exceedances 2015 EFSA ✓ 0 % findings EFSA 2016 report (1930 samples) ✓ 0 % findings EFSA 2017 report (1637 samples) 44% labs and 80% MS analysed full RD in 2015 39% labs and 74% MS analysed full RD in 2018. Based on feeding studies relevant for animal fat, cows' milk and butter. ⇒ **Analytical coverage medium** ⇒ **No findings**
<u>Fenthion (Not approved) – AO</u> Footnote i) in Reg. (EC) N° 788/2012 Method: MRM Toxicity: ADI = 0.007 mg/kg bw/day, ARfD = 0.01 mg/kg bw Priority: 1A Evaluation after 1 year (10/2016) ✓ 0 % findings EFSA 2012 report ✓ 0 % findings EFSA 2013 report (2260 samples) ✓ 0 % findings EFSA 2014 report (3598 samples) ✓ 0.00% findings, 0.00% MRL exceedances 2015 EFSA ✓ 0 % findings EFSA 2016 report (1631 samples) ✓ 0 % findings EFSA 2017 report (2211 samples) 31% labs and % MS analysed full RD in 2015 30% labs and 56% MS analysed full RD in 2018. Based on feeding studies relevant for animal fat and liver. ⇒ **Analytical coverage low** ⇒ **No findings**	<u>Fluquinconazole (Not approved) – AO</u> No footnote, remark h) in Reg. (EC) N° 788/2012: 'To be analysed on voluntary basis in milk (2013), liver (2014) and butter (2015), it does not need to be analysed in swine meat (2013), poultry meat (2014) and egg (2015).' Method: MRM Toxicity: ADI = 0.002 mg/kg bw/day, ARfD = 0.02 mg/kgbw Priority: 1A Evaluation after 1 year (10/2016) ✓ 0.35 % findings EFSA 2012 report ✓ 0% findings EFSA 2013 report (1280 samples) ✓ 0% findings EFSA 2014 report (2703 samples) ✓ 0.00% findings, 0.00% MRL exceedances 2015 EFSA ✓ 0 % findings EFSA 2016 report (2284 samples) ✓ 0 % findings EFSA 2017 report (2071 samples) 48% labs and 76% MS analysed full RD in 2015 44% labs and 78% MS analysed full RD in 2018. Based on feeding studies relevant for cows' milk, liver and butter. ⇒ **Analytical coverage medium** ⇒ **No findings**
<u>Flusilazole (not approved) – AO</u> No footnote, remark in Reg. (EC) N° 788/2012: 'To be analysed on voluntary basis in swine meat (2013) and liver (2014), it does not need to be analysed in milk (2013) and poultry meat (2014). Not relevant for commodities listed in 2015.' Method: MRM Toxicity: ADI = 0.002 mg/kg bw/day, ARfD = 0.005 mg/kg bw Priority: 1A Evaluation after 1 year (10/2016) ✓ 0 % findings EFSA 2012 report ✓ 0% findings EFSA 2013 report (669 samples) ✓ 0% findings EFSA 2013 report (1074 samples) ✓ 0.00% findings, 0.00% MRL exceedances 2015 EFSA ✓ 0 % findings EFSA 2016 report (858 samples) ✓ 0 % findings EFSA 2017 report (2151 samples) 1% labs and 4% MS analysed full RD in 2015 1% labs and 4% MS analysed full RD in 2018. Based on feeding studies relevant for animal fat, kidney and liver. ⇒ **Analytical coverage low** ⇒ **No findings**	<u>Metaflumizone – AO</u> *Approved since 01/2015* No footnote, remark in Reg. (EC) N° 788/2012: 'To be analysed on voluntary basis in swine meat (2013), poultry meat, (2014) and egg (2015), it does not need to be analysed in milk (2013), liver (2014) and butter (2015).' Method: MRM Toxicity: ADI = 0.01 mg/kg bw/day, ARfD = 0.13 mg/kg bw Priority: 1A Evaluation after 1 year (10/2016). ✓ 0 % findings EFSA 2012 report ✓ 0% findings EFSA 2013 report (222 samples) ✓ 0% findings EFSA 2014 report (1027 samples) ✓ 0.00% findings, 0.00% MRL exceedances 2015 EFSA ✓ 0 % findings EFSA 2016 report (1262 samples) ✓ 0 % findings EFSA 2017 report (1219 samples) 31% labs and 72% MS analysed full RD in 2015 4% labs and 15% MS analysed full RD in 2018. Based on feeding studies relevant for swine muscle, poultry muscle and eggs. ⇒ **Analytical coverage low** ⇒ **No findings**

Metazachlor – AO

Approved since 08/2009

Footnote h) in Reg. (EC) N° 788/2012 and remark: 'To be analysed on voluntary basis in liver (2014), it does not need to be analysed in poultry meat (2014). Not relevant for commodities listed in 2013/2015.'
Method: SRM
Toxicity: ADI = 0.08 mg/kg bw/day, ARfD = 0.5 mg/kg bw
Priority: 2A
Evaluation after 2 years (10/2017)
- ✓ 0 % findings EFSA 2012 report
- ✓ 0% findings EFSA 2013 report (701 samples)
- ✓ 0% findings EFSA 2014 report (1650 samples)
- ✓ 0.00% findings (0.00% MRL exceedances) EFSA 2015 report (821 samples)
- ✓ 0.00% findings (0.00% MRL exceedances) EFSA 2016 report (628 samples)
- ✓ 0 % findings EFSA 2017 report (676 samples)

1% labs and 4% MS analysed full RD in 2015
6% labs and 16% MS analysed full RD in 2016
2% labs and 7% MS analysed full RD in 2018.
⇒ **Analytical coverage poor**
⇒ **No findings**
Based on feeding studies relevant for liver and kidney of swine and ruminants.

Methidathion (Not approved) – AO

Footnote i) in Reg. (EC) N° 788/2012
Method: MRM
Toxicity: ADI = 0.001 mg/kg bw/day, ARfD = 0.01 mg/kg bw
Priority: 1A
Evaluation after 1 year (10/2016)
- ✓ 0 % findings EFSA 2012 report
- ✓ 0% findings EFSA 2013 report (3707 samples)
- ✓ 0% findings EFSA 2014 report (4804 samples)
- ✓ 0.00% findings, 0.00% MRL exceedances 2015 EFSA
- ✓ 0 % findings EFSA 2016 report (3250 samples)
- ✓ 0 % findings EFSA 2017 report (4004 samples)

70% labs and 92% MS analysed full RD in 2015
66% labs and 96% MS analysed full RD in 2018.
Based on feeding studies relevant for animal fat, muscle, milk and eggs.
⇒ **Analytical coverage good**
⇒ **No findings**

Parathion-methyl (Not approved) – AO

Footnote i) in Reg. (EC) N° 788/2012
Method: MRM
Toxicity: ADI = 0.003 mg/kg bw/day, ARfD = 0.03 mg/kg bw
Priority: 1A
Evaluation after 1 year (10/2016)
- ✓ 0 % findings EFSA 2012 report
- ✓ 0% findings EFSA 2013 report (3342 samples)
- ✓ 0% findings EFSA 2014 report (4097 samples)
- ✓ 0.00% findings, 0.00% MRL exceedances 2015 EFSA
- ✓ 0 % findings EFSA 2016 report (2709 samples)
- ✓ 0 % findings EFSA 2017 report (3136 samples)

52% labs and 88% MS analysed full RD in 2015
42% labs and 74% MS analysed full RD in 2018.
Based on feeding studies relevant for animal muscle, fat, milk and eggs.
⇒ **Analytical coverage medium**
⇒ **No findings**

Profenofos (Not approved) – AO

Footnote i) in Reg. (EC) N° 788/2012:
Method: MRM
Toxicity: ADI = 0.03 mg/kg bw/day, ARfD = 1 mg/kg bw
Priority: 1A
Evaluation after 1 year (10/2016)
- ✓ 0 % findings EFSA 2012 report
- ✓ 0% findings EFSA 2013 report (3048 samples)
- ✓ 0% findings EFSA 2014 report (4290 samples)
- ✓ 0.00% findings, 0.00% MRL exceedances 2015 EFSA
- ✓ 0 % findings EFSA 2016 report (3206 samples)
- ✓ 0 % findings EFSA 2017 report (3995 samples)

70% labs and 92% MS analysed full RD in 2015
61% labs and 93% MS analysed full RD in 2018.
Based on feeding studies relevant for animal fat, milk and eggs.
⇒ **Analytical coverage good**
⇒ **No findings**

Prothioconazole – AO

No footnote, remark in Reg. (EC) N° 788/2012: 'To be analysed on voluntary basis in liver (2014), it does not need to be analysed in poultry meat (2014). Not relevant for commodities listed in 2013/2015.'
Method: MRM/ SRM
Toxicity: ADI = 0.01 mg/kg bw/day, ARfD = 0.01 mg/kg bw
Priority: 2A
Evaluation after 2 years (10/2017)
- ✓ 0 % findings EFSA 2012 report
- ✓ 0% findings EFSA 2013 report (157 samples)

Resmethrin (Not approved) – AO

Footnote i) in Reg. (EC) N° 788/2012
Method: MRM
Toxicity: ADI = 0.03 mg/kg bw/day, ARfD = NA
Priority: 1A
Evaluation after 1 year (10/2016)
- ✓ 0 % findings EFSA 2012 report
- ✓ 0% findings EFSA 2013 report (2872 samples)
- ✓ 0.06% findings EFSA 2014 report (3372 samples)
- ✓ 0.00% findings, 0.00% MRL exceedances 2015 EFSA
- ✓ 0 % findings EFSA 2016 report (2607 samples)

✓ 0% findings EFSA 2014 report (405 samples) ✓ 0.00% findings (0.00% MRL exceedances) EFSA 2015 report (342 samples) ✓ 0.00% findings (0.00% MRL exceedances) EFSA 2016 report (882 samples) ✓ 0 % findings EFSA 2017 report (1099 samples) 2% labs and 8% MS analysed full RD in 2015 25% labs and 52% MS analysed full RD in 2018. ⇒ **Analytical coverage poor** ⇒ **No findings** Based on feeding studies relevant for ruminants and swine liver and kidney.	✓ 0 % findings EFSA 2017 report (2133 samples) 19% labs and 40% MS analysed full RD in 2015 25% labs and 48% MS analysed full RD in 2018. Based on feeding studies relevant for animal fat, muscle, liver, kidney, cow's milk and eggs. ⇒ **Analytical coverage low** ⇒ **Few findings**
<u>Tau-fluvalinate – AO</u> *Also approved as veterinary drug* No footnote, remark in Reg. (EC) N° 788/2012: 'To be analysed on voluntary basis in milk (2013) and butter (2015), it does not need to be analysed in swine meat (2013) and egg (2015). Not relevant for commodities listed in 2014.' Method: MRM Toxicity: ADI = 0.005 mg/kg bw/day, ARfD = 0.05 mg/kg bw Priority: 1A Evaluation after 1 year (10/2016) ✓ 0 % findings EFSA 2012 report ✓ 0% findings EFSA 2013 report (1308 samples) ✓ 0% findings EFSA 2014 report (2417 samples) ✓ 0.00% findings, 0.00% MRL exceedances 2015 EFSA ✓ 0.08 % findings EFSA 2016 report (2247 samples) ✓ 0.05 % findings EFSA 2017 report (1765 samples) 6% labs and 84% MS analysed full RD in 2015 45% labs and 70% MS analysed full RD in 2018. Based on feeding studies relevant for cows' milk and butter ⇒ **Analytical coverage low** ⇒ **No findings**	<u>Tetraconazole – AO</u> No footnote, remark in Reg. (EC) N° 788/2012: 'To be analysed on voluntary basis in milk (2013), liver (2014) and butter (2015), it does not need to be analysed in swine meat (2013), poultry meat (2014) and egg (2015).' Method: MRM Toxicity: ADI = 0.004 mg/kg bw/day, ARfD = 0.05 mg/kg bw Priority: 1A Evaluation after 1 year (10/2016) ✓ 0 % findings EFSA 2012 report ✓ 0% findings EFSA 2013 report (1834 samples) ✓ 0% findings EFSA 2014 report (3058 samples) ✓ 0.00% findings, 0.00% MRL exceedances 2015 EFSA ✓ 0 % findings EFSA 2016 report (2316 samples) ✓ 0.04 % findings EFSA 2017 report (2058 samples) 51% labs and 80% MS analysed full RD in 2015 41% labs and 74% MS analysed full RD in 2018. Based on feeding studies relevant for cows' milk, liver and butter. ⇒ **Analytical coverage medium** ⇒ **No findings**
<u>Thiacloprid (Not approved) –AO</u> No footnote, remark in Reg. (EC) N° 788/2012: 'To be analysed on voluntary basis in liver (2014), it does not need to be analysed in poultry meat (2014). Not relevant for commodities listed in 2013/2015.' Method: MRM Toxicity: ADI = 0.01 mg/kg bw/day, ARfD = 0.03 mg/kg bw Priority: 1A Evaluation after 1 year (10/2016) ✓ 0 % findings EFSA 2012 report ✓ 0% findings EFSA 2013 report (856 samples) ✓ 4.27% findings EFSA 2014 report (0.06% MRL exceedances) ✓ 2015 preliminary EFSA data 26.6% findings, 0.5% MRL exceedances in honey. Not tested on other AO commodities. ✓ 26.60% findings, 0.50% MRL exceedances 2015 EFSA ✓ 4.50% findings, 0.09% MRL exceedances 2016 EFSA ✓ 5.60% findings, 0.11% MRL exceedances 2017 EFSA 41% labs and 76% MS analysed full RD in 2015 33% labs and 59% MS analysed full RD in 2018. Based on feeding studies relevant for liver, kidney and honey. ⇒ **Analytical coverage medium** ⇒ **Some findings in honey (see Annex VII)**	<u>Topramezone (Not approved) – AO</u> Footnote h) in Reg. (EC) N° 788/2012 and remark: 'To be analysed on voluntary basis in liver (2014), it does not need to be analysed in poultry meat (2014). Not relevant for commodities listed in 2013/2015.' Method: MRM Toxicity: ADI = 0.001 mg/kg bw/day, ARfD = 0.001 mg/kg bw Priority: 1A Evaluation after 1 year (10/2016) ✓No monitoring results available in EFSA 2012 report ✓0% findings EFSA 2013 report (120 samples) ✓0% findings EFSA 2014 report (182 samples) ✓0.00% findings, 0.00% MRL exceedances 2015 EFSA data (47 samples) ✓0 % findings EFSA 2016 report (480 samples) ✓0% findings EFSA 2017 report (413 samples) 8% labs and 24% MS analysed full RD in 2015 4% labs and 15% MS analysed full RD in 2018. Based on feeding studies relevant for ruminant's liver and kidney. ⇒ **Analytical coverage low** ⇒ **No findings**

Triazophos (Not approved) – AO

Footnote i) in Reg. (EC) N° 788/2012
Method: MRM
Toxicity: ADI = 0.001 mg/kg bw/day,ARfD = 0.001 mg/kgbw
Priority: 1A
Evaluation after 1 year (10/2016)

- ✓ 0 % findings EFSA 2012 report
- ✓ 0% findings EFSA 2013 report (3385 samples)
- ✓ 0% findings EFSA 2014 report (4687 samples)
- ✓ 0.00% findings, 0.00% MRL exceedances 2015 EFSA
- ✓ 0 % findings EFSA 2016 report (3415 samples)
- ✓ 0% findings EFSA 2017 report (4226 samples)

69% labs and 88% MS analysed full RD in 2015
63% labs and 89% MS analysed full RD in 2018.
Based on feeding studies relevant for animal fat, eggs and milk.
⇒ **Analytical coverage good**
⇒ **No findings**

Annex V: Evaluation at the end of the evaluation period

Information to be gathered for evaluation at the end of the evaluation period
Pesticide X

- Analytical coverage (data collection via EURLs)
  - % of labs that took part in the survey
  - % of Member States that took part in the survey
  - % of the labs that is able to analyse the full residue definition
  - % of the labs that analyses part of the residue definition
  - % of the Member States that is able to analyse the full residue definition
  - % of the Member States that analyses part of the residue definition

- MRL exceedances/ findings (data collection by EFSA as part of the data collection for the National Programmes)
  - N° of samples analysed
  - % of samples with findings > LOQ
  - % of samples numerically exceeding the MRL
  - % of samples analysed according to full residue definition (SSD code P005)
  - % of samples analysed for part of the residue definition (SSD code P004)
  - N° of RASFF notifications
  - N° of ARfD exceedances (not systematically calculated by EFSA, only mentioned if specific MS information is available)

Evaluation summarised by COM in Working Document

Pesticide X

- % of labs that is able to analyse the full residue definition
- % of samples with residues > MRL
- % of findings
- N° of RASFF notifications

Annex VI: Proposals for uptake of new substances in the Working Document

Proposal sheet to be filled out by COM, EFSA, EURLs or Member States

- Proposal made by:
- Substance:
- Proposed category or annex:
- Findings and/or MRL exceedances:
- Method:
- Toxicity:
- Proposed priority:
- Proposed evaluation period:
- Relevant commodities:
- Additional information:

Annex VII: Substances of interest to be analysed in honey under the national control programmes

In its 2014 annual report, EFSA recommended to analyse honey samples for the substances that are listed in the EU MACP in commodities of plant origin, in order to allow estimating the exposure of bees and adapting certain MRLs for honey. Moreover, in its 2020 annual report, EFSA recommended that Member States should keep monitoring honey in their national control programmes with an analytical scope as wide as possible.

Member States are encouraged to perform these analyses under their national programmes and to clearly report to EFSA which MRL (pesticides MRL or veterinary medicinal product MRL) was used for the evaluation. For honey the residue definition for plant products applies. Next to residue information for the residue definition for plant products, also information on residues in line with the residue definition for animal origin can be useful to get a view on other specific metabolites that might occur in bees.

Substances for which residues frequently occur in honey:

- **2,4-D**
- Acetamiprid
- Amitraz (veterinary medicinal product)
- Azoxystrobin
- Benzalkonium chloride (BAC)
- Boscalid
- Carbendazim and thiophanate methyl
- Chlorates
- Chlordane
- Clothianidin
- Chlorfenvinphos
- Coumaphos (veterinary medicinal product)
- Copper compounds
- Didecyldimethylammonium chloride[7] (DDAC)
- Dimoxystrobin
- Dimethoate
- **Fluazifop-P**
- Glyphosate
- Iprodione
- Imidacloprid
- Lambda-cyhalothrin
- Matrine
- Orthophenylphenol (2-phenylphenol)
- Oxymatrine
- Picoxystrobin
- Pendimethalin
- Thiacloprid
- Tritosulfuron

[7] The results should be reported as mixture of alkyl-quaternary ammonium salts with alkyl chain lengths of C8, C10 and C12.

Annex VIII: Commodities of interest to be analysed under the national programmes

EFSA recommended focusing monitoring activities on commodities that frequently contain pesticides residues or that have the potential to result in a significant short-term intake:

- Small fruits and berries
- Grapefruits
- Rucola
- Apricots
- Celeriacs
- Brussels sprouts
- Cherries
- Tea
- Grape leaves
- Wild fungi
- Zucchinis / Courgettes

As currently little monitoring data are available for pesticides residues in feed, EFSA recommended to include animal feed commodities in the monitoring programmes in order to get a view on the animal exposure. On the basis of residue data for feed EFSA is able to estimate the exposure of humans to the pesticides residues.

- Rapeseed
- Soybean

Annex IX: Substances moved from the working document to the EU MACP

- Aclonifen (PO-carrots) (2023 EU MACP)
- Ametoctradin (PO) (2019 EU MACP)
- **Chlormequat (AO – milk, liver) (2024 EU MACP)**
- **Clopyralid (PO) (2024 EU MACP)**
- **Copper compounds (PO & AO) (2024 EU MACP)**
- Cyantraniliprole (PO) (2022 EU MACP)
- Cyazofamid (PO) (2019 EU MACP)
- Cyflufenamid (PO) (2020 EU MACP)
- Fenpyrazamine (PO) (2020 EU MACP)
- **Flupyradifurone (PO) (2024 EU MACP)**
- Fosetyl-Al (PO) (2021 EU MACP)
- Glufosinate ammonium (PO & AO) (2021 EU MACP)
- Emamectin benzoate B1a, expressed as emamectin (PO) (2019 EU MACP)
- Etoxazole (PO) (2019 EU MACP)
- Fluopicolide (PO) (2018 EU MACP)
- Fluxapyroxad (PO) (2019 EU MACP)
- Glyphosate[8] (PO & AO) (2019 EU MACP)
- Maleic hydrazide (PO) (2023 EU MACP)
- **Mepiquat (AO – milk, liver) (2024 EU MACP)**
- Metrafenone (PO) (2019 EU MACP)
- Metaflumizone (PO) (2022 EU MACP)
- **Nicotine (PO – lettuces, apples, potatoes, onions, table grapes, tomatoes) (2024 EU MACP)**
- Pendimethalin (AO) (2021 EU MACP)
- Prochloraz (PO) (2021 EU MACP)
- Proquinazid (PO) (2020 EU MACP)
- Prothioconazole (PO) (2018 EU MACP)
- Prosulfocarb (PO) (2018 EU MACP)
- Pyridalil (PO) (2021 EU MACP)
- Spinetoram (PO) (2021 EU MACP)
- Spirotetramat (PO) (2019 EU MACP)
- Sulfoxaflor (PO) 2022 EU MACP)
- Tricyclazole (PO) (2020 EU MACP
- **Triflumizole (PO) (2024 EU MACP)**
- **Zoxamide (PO) (2024 EU MACP)**

[8] Introduced for Products of Animal Origin. Analytical coverage of full RD:
2015 (survey on 84 labs/25MSs): 23% of labs, 48% of MSs
2016 (survey on 81 labs/25MSs): 24% of labs, 48% of MSs
3.74% findings (2.04% MRL exceedances) EFSA 2016 report (294 samples)
Relevant for ruminant kidney, liver and honey. To be checked whether relevant for cows' milk, animal muscle and fat.

REGIONE---------- ASL ----------

USMAF di

FOGLIO INTEGRATIVO del

VERBALE DI CAMPIONAMENTO 1 n._____ del _____/_____/_____

Campi necessari per l'invio dei dati alla sezione Gestione Accoglienza Flussi del Nuovo Sistema Informativo Sanitario (NSIS) della Banca dati centrale del Ministero della Salute, del flusso residui prodotti fitosanitari negli alimenti.

ORIGINE DEL PRODOTTO =_____

Se l'origine è l'Italia riportare anche la regione di origine

PRODOTTO:
Descrizione:_____

Codice foodex 2 : ---------- (indicare esclusivamente il codice EFSA)

STRATEGIA DI CAMPIONAMENTO

ProgSampStrategy

ST10A=campionamento casuale

ST20A=Campionamento mirato es campioni di controllo

ST30A=Campionamento su sospetto o a seguito precedente controllo

TIPOLOGIA DI PROGRAMMA DI CAMPIONAMENTO

progType

K005A = DM 23-12-1992

K018A = piano coordinato comunitario e nazionale

K019A = controlli accresciuti all'importazione reg 669/2009

METODO DI CAMPIONAMENTO

sampMethod

N001A = individuale ?

N008A = non conosciuto ?

N009A = Secondo la Direttiva 2002/63/EC recepita in Italia con D.M. 23/07/2003)?

N010A = per alimenti di origine animale prelevati ai sensi della direttiva 96/23/CE

PUNTO DI CAMPIONAMENTO

sampPoint

MS011 = Produzione primaria

MS017 = Vendita all'ingrosso e al dettaglio

MS0171 = distributore all'ingrosso

MS0172 = dettagliante

MS04 = Attività d'importazione

MS.070 = Magazzino di stoccaggio

altro (visionare anagrafi per la corretta compilazione del codice nel caso il punto del prelievo non coincida con quelli citati sopra)

IDENTIFICATORE OSA

campo OSAid

Partita I.V.A.

Codice Fiscale : _____

NUMERO DI REGISTRAZIONE/RICONOSCIMENTO_____

Se azienda agricola codice univoco Anagrafe Aziendale :_____
Altra azienda Partita Iva o Codice Fiscale _____

I verbalizzanti
_____
_____

TIMBRO O FIRMA OSA
_____

DATA