



# FOOD AND BEVERAGE CHEMISTRY



## FOOD AND BEVERAGE CHEMISTRY PROFICIENCY TESTS

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The confidence in analytical data provided to producers can be enhanced through using proficiency testing. Proficiency testing (PT) provides evidence, from an independent source, regarding the competency of the laboratory supplying the analytical service. Important commercial and safety decisions are made on the results of laboratory analysis, so it pays to monitor performance to ensure you can rely on these results.

Our Food Chemistry programme covers chemical analysis of real food samples for a wide range of target analytes including: nutritional components, additives, allergens, natural contaminants, pesticide and veterinary medicine residues, and packaging chemical migrants.

### Quantity discounts (for materials purchased in a single order) excluding blank materials

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Quantity	Discount
21 - 45 tests	5%
46 - 70 tests	10%
71 or more	20%

Note: The information in this price list is designed to assist you in choosing proficiency tests to meet your needs. Whilst every care has been taken in producing this information, we do not guarantee its accuracy. The Fapas® website is the definitive source of information about our proficiency tests. Orders are subject to the Fapas® terms and conditions, which are available on our website. Please check the website before placing your order.


Prices do not include taxes, import duties, inspection fees or carriage charges which are extra. Items indicated with ❄️ are sent frozen/chilled and incur higher carriage charges.

## PESTICIDES (for list of possible residues see pages 36 to 37)


Blank matrix samples are available to purchase with many of the proficiency test materials. Every effort has been made to ensure these do not contain the target analytes. Other analytes may be present.

### Mixed Residue Methods (Combining Multi-residue and Single-residue Methods)










Item Code	Matrix	Analytes	Product Code	Approx. Size		Start Date	Fee (EUR)
05161	Milk Powder	pesticide residues (fat soluble) [multi-residue methods] including (per)chlorates [single-residue methods]	FCPX10-DRY14	50 g		28/07/2022	311
05161b	Blank Milk Powder	blank	BLPM9-DRY2	50 g		28/07/2022	94
05164	Chicken Muscle	biocides (quaternary ammonium compounds) [multi-residue methods] & (per)chlorates [single-residue methods]	FCPX1-MRP17	50 g		29/11/2022	311
05164b	Blank Chicken Muscle	blank	BLPM7-MRP50	50 g		29/11/2022	94
05165	Infant Formula	pesticide residues (fat soluble, inc. EU 'red list' - low level) including (per)chlorates [single-residue methods]	FCPX11-INF10	50 g		11/01/2023	311
05165b	Blank Infant Formula	blank	BLPM10-INF5	50 g		11/01/2023	94
09144	Basmati Rice	pesticide residues [multi-residue methods] including bromide [single-residue methods]	FCPX2-CCP51	50 g		26/01/2022	287
09144b	Blank Basmati Rice	blank	BLPM2-CCP52	50 g		26/01/2022	91
09150	Soya Beans (Dried)	pesticide residues [multi-residue methods] including glyphosate & AMPA [single-residue methods]	FCPX6-VEG67	90 g		16/09/2022	295
09150b	Blank Soya Beans (Dried)	blank	BLPM2-VEG104	90 g		16/09/2022	94
09153	Basmati Rice (Powdered)	pesticide residues [multi-residue methods] including bromide [single-residue methods]	FCPX2-CCP60	50 g		25/01/2023	295
09153b	Blank Basmati Rice (Powdered)	blank	BLPM2-CCP61	50 g		25/01/2023	94
09155	Lentils (Dried)	pesticide residues [multi-residue methods] including glyphosate [single-residue methods]	FCPX12-VEG86	90 g		22/03/2023	295
09155b	Blank Lentils (Dried)	blank	BLPM2-VEG87	90 g		22/03/2023	94

Item Code	Matrix	Analytes	Product Code	Approx. Size		Start Date	Fee (EUR)
19330	Herb (Parsley) Purée	biocides (quaternary ammonium compounds) [multi-residue methods] & (per)chlorates [single-residue methods]	FCPX1-VEG45	90 g		21/02/2022	287
19330b	Blank Herb (Parsley) Purée	blank	BLPM6-VEG15	90 g		21/02/2022	91
19332	Tea (Herbal)	pesticide residues (tea matrix) [multi-residue methods] including (per)chlorates [single-residue methods]	FCPX5-DRH23	50 g		03/03/2022	287
19332b	Blank Tea (Herbal)	blank	BLPM3-DRH26	50 g		03/03/2022	91
19336	Onion Purée	pesticide residues [multi-residue methods] including maleic hydrazide [single-residue methods]	FCPX8-VEG55	90 g		19/04/2022	295
19336b	Blank Onion Purée	blank	BLPM2-VEG108	90 g		19/04/2022	94
19343	Coffee (Green, Milled)	glyphosate	FCPX9-DRH31	50 g		01/08/2022	266
19343b	Blank Coffee	blank	BLPM1-DRH29	50 g		01/08/2022	94
19349	Sesame Seeds	ethylene oxide (as 2-chloroethanol)	FCPX7-NUT34	50 g		03/10/2022	396
19351	Salad Leaf Purée	biocides (quaternary ammonium compounds) [multi-residue methods] & (per)chlorates [single-residue methods]	FCPX1-VEG62	90 g		18/10/2022	295
19351b	Blank Salad Leaf Purée	blank	BLPM6-VEG24	90 g		18/10/2022	94
19354	Peanut Butter	pesticide residues [multi-residue methods] including bromide [single-residue methods]	FCPX2-NUT31	90 g		22/11/2022	295
19354b	Blank Peanut Butter	blank	BLPM2-NUT33	90 g		22/11/2022	94
19355	Green Tea	pesticide residues (tea matrix) [multi-residue methods] including (per)chlorates [single-residue methods]	FCPX5-DRH14	50 g		01/12/2022	295
19355b	Blank Green Tea	blank	BLPM3-DRH1	50 g		01/12/2022	94
19360	Prepared Fruit Purée	biocides (quaternary ammonium compounds) [multi-residue methods] & (per)chlorates [single-residue methods]	FCPX1-FRU63	90 g		13/02/2023	295
19360b	Blank Prepared Fruit	blank	BLPM6-FRU27	90 g		13/02/2023	94


















Item Code	Matrix	Analytes	Product Code	Approx. Size		Start Date	Fee (EUR)
19362	Tea (Herbal)	pesticide residues (tea matrix) [multi-residue methods] including (per)chlorates [single-residue methods]	FCPX5-DRH23	50 g		02/03/2023	295
19362b	Blank Tea (Herbal)	blank	BLPM3-DRH26	50 g		02/03/2023	94

### Multi Residue Methods










Item Code	Matrix	Analytes	Product Code	Approx. Size		Start Date	Fee (EUR)
05157	Infant Formula	pesticide residues (fat soluble, inc. EU 'red list' - low level)	FCPM10-INF10	50 g		12/01/2022	303
05157b	Blank Infant Formula	blank	BLPM10-INF5	50 g		12/01/2022	91
05158	CBD Product (Oil Based)	pesticide residues (multi-residue)	FCPM2-UMI44	10 g		02/02/2022	303
05158b	Blank CBD Product (Oil Based)	blank	BLPM2-UMI45	10 g		02/02/2022	91
05159	Chicken (Hens) Eggs	pesticide residues (fat soluble & recommended monitoring)	FCPM11-EGG2	50 g		01/03/2022	303
05159b	Blank Chicken (Hens) Eggs	blank	BLPM11-EGG1	50 g		01/03/2022	91
05160	Oily Fish	pesticide residues (fat soluble)	FCPM9-SEA18	50 g		31/05/2022	311
05160b	Blank Oily Fish	blank	BLPM9-SEA3	50 g		31/05/2022	94
05162	Animal Fat (Pork)	pesticide residues (fat soluble)	FCPM9-FAT2	50 g		06/09/2022	311
05162b	Blank Animal Fat (Pork)	blank	BLPM9-FAT3	50 g		06/09/2022	94
05163	Olive Oil (Virgin)	pesticide residues (multi-residue)	FCPM2-OIL34	50 g		05/10/2022	311
05163b	Blank Olive Oil (Virgin)	blank	BLPM2-OIL36	50 g		05/10/2022	94
05166	CBD Product (Oil Based)	pesticide residues (multi-residue)	FCPM2-UMI44	10 g		01/02/2023	311
05166b	Blank CBD Product (Oil Based)	blank	BLPM2-UMI45	10 g		01/02/2023	94
05167	Chicken (Hens) Eggs	pesticide residues (fat soluble & recommended monitoring)	FCPM11-EGG2	50 g		28/02/2023	311
05167b	Blank Chicken (Hens) Eggs	blank	BLPM11-EGG1	50 g		28/02/2023	94
09145	Wheat Flour	pesticide residues (multi-residue)	FCPM2-CCP49	50 g		10/02/2022	287
09145b	Blank Wheat Flour	blank	BLPM2-CCP11	50 g		10/02/2022	91
09147	Barley Flour	pesticide residues (multi-residue)	FCPM2-CCP4	50 g		11/05/2022	295
09147b	Blank Barley Flour	blank	BLPM2-CCP72	50 g		11/05/2022	94

Item Code	Matrix	Analytes	Product Code	Approx. Size		Start Date	Fee (EUR)
09148	Brown Rice (Powdered)	pesticide residues (multi-residue)	FCPM2-CCP63	50 g		08/06/2022	295
09148b	Blank Brown Rice (Powdered)	blank	BLPM2-CCP62	50 g		08/06/2022	94
09149	Wheat Flour	pesticide residues (multi-residue)	FCPM2-CCP49	50 g		10/08/2022	295
09149b	Blank Wheat Flour	blank	BLPM2-CCP11	50 g		10/08/2022	94
09151	Animal Feed (Cereal Based)	pesticide residues (multi-residue)	FCPM2-AFE2	50 g		12/10/2022	295
09151b	Blank Animal Feed (Cereal Based)	blank	BLPM2-AFE21	50 g		12/10/2022	94
09154	Wheat Flour	pesticide residues (multi-residue)	FCPM2-CCP49	50 g		17/02/2023	295
09154b	Blank Wheat Flour	blank	BLPM2-CCP11	50 g		17/02/2023	94
19328	Spice - Black Pepper	pesticide residues (multi-residue)	FCPM2-SPI1	50 g		17/01/2022	287
19328b	Blank Spice - Black Pepper	blank	BLPM2-SPI2	50 g		17/01/2022	91
19329	Pumpkin Purée	pesticide residues (specified residues) [multi-residue]	FCPM22-VEG102	90 g		17/01/2022	287
19329b	Blank Pumpkin Purée	blank	BLPM22-VEG101	90 g		17/01/2022	91
19331	Apple Purée	pesticide residues (multi-residue)	FCPM2-FRU2	90 g		21/02/2022	287
19331b	Blank Apple Purée	blank	BLPM2-FRU5	90 g		21/02/2022	91
19334	Lemon Purée	pesticide residues (multi-residue)	FCPM2-FRU52	90 g		05/04/2022	295
19334b	Blank Lemon Purée	blank	BLPM2-FRU16	90 g		05/04/2022	94
19335	Carrot Purée	pesticide residues (multi-residue)	FCPM2-VEG33	90 g		05/04/2022	295
19335b	Blank Carrot Purée	blank	BLPM2-VEG9	90 g		05/04/2022	94
19337	Orange Juice	pesticide residues (multi-residue)	FCPM2-DRN26	90 g		16/05/2022	295
19337b	Blank Orange Juice	blank	BLPM2-DRN42	90 g		16/05/2022	94
19338	Tomato Purée	pesticide residues (multi-residue)	FCPM2-VEG76	90 g		24/05/2022	295
19338b	Blank Tomato Purée	blank	BLPM2-VEG29	90 g		24/05/2022	94
19339	Cucumber Purée	pesticide residues (multi-residue)	FCPM2-VEG38	90 g		06/06/2022	295
19339b	Blank Cucumber Purée	blank	BLPM2-VEG13	90 g		06/06/2022	94

Item Code	Matrix	Analytes	Product Code	Approx. Size		Start Date	Fee (EUR)
19340	Lettuce Purée	pesticide residues (multi-residue)	FCPM2-VEG49	90 g		06/06/2022	295
19340b	Blank Lettuce Purée	blank	BLPM2-VEG18	90 g		06/06/2022	94
19341	Pea (with Pods) Purée	pesticide residues (multi-residue)	FCPM2-VEG57	90 g		19/07/2022	295
19341b	Blank Pea (with Pods) Purée	blank	BLPM2-VEG22	90 g		19/07/2022	94
19342	Cabbage Purée	pesticide residues (multi-residue)	FCPM2-VEG32	90 g		19/07/2022	295
19342b	Blank Cabbage Purée	blank	BLPM2-VEG8	90 g		19/07/2022	94
19344	Kiwi Fruit Purée	pesticide residues (multi-residue)	FCPM2-FRU69	90 g		22/08/2022	295
19344b	Blank Kiwi Fruit Purée	blank	BLPM2-FRU70	90 g		22/08/2022	94
19345	Strawberry Purée	pesticide residues (multi-residue)	FCPM2-FRU67	90 g		22/08/2022	295
19345b	Blank Strawberry Purée	blank	BLPM2-FRU30	90 g		22/08/2022	94
19346	Potato Purée	pesticide residues (multi-residue)	FCPM2-VEG59	90 g		05/09/2022	295
19346b	Blank Potato Purée	blank	BLPM2-VEG23	90 g		05/09/2022	94
19347	Herb (Basil) Purée	pesticide residues (multi-residue)	FCPM2-VEG2	90 g		19/09/2022	295
19347b	Blank Herb (Basil) Purée	blank	BLPM2-VEG5	90 g		19/09/2022	94
19350	Blueberry Purée	pesticide residues (multi-residue)	FCPM2-FRU31	90 g		18/10/2022	295
19350b	Blank Blueberry Purée	blank	BLPM2-FRU8	90 g		18/10/2022	94
19352	Courgette (Zucchini) Purée	pesticide residues (multi-residue)	FCPM2-VEG36	90 g		07/11/2022	295
19352b	Blank Courgette (Zucchini) Purée	blank	BLPM2-VEG12	90 g		07/11/2022	94
19353	Honey	pesticide residues (honey matrix) [multi-residue]	FCPM8-HON2	90 g		07/11/2022	295
19353b	Blank Honey	blank	BLPM8-HON1	90 g		07/11/2022	94
19356	Plum Purée	pesticide residues (multi-residue)	FCPM2-FRU62	90 g		06/12/2022	295
19356b	Blank Plum Purée	blank	BLPM2-FRU26	90 g		06/12/2022	94

Item Code	Matrix	Analytes	Product Code	Approx. Size		Start Date	Fee (EUR)
19357	Spice - Cumin	pesticide residues (multi-residue)	FCPM2-SPI8	50 g		16/01/2023	295
19357b	Blank Spice - Cumin	blank	BLPM2-SPI27	50 g		16/01/2023	94
19358	Pear Purée	pesticide residues (specified residues) [multi-residue]	FCPM22-FRU60	90 g		16/01/2023	295
19358b	Blank Pear Purée	blank	BLPM22-FRU24	90 g		16/01/2023	94
19359	Dried Mixed Fruit Purée	pesticide residues (multi-residue)	FCPM2-FRU77	90 g		07/02/2023	295
19359b	Blank Dried Mixed Fruit Purée	blank	BLPM2-FRU78	90 g		07/02/2023	94
19361	Apple Purée	pesticide residues (multi-residue)	FCPM2-FRU2	90 g		13/02/2023	295
19361b	Blank Apple Purée	blank	BLPM2-FRU5	90 g		13/02/2023	94

### Single Residue Methods

Item Code	Matrix	Analytes	Product Code	Approx. Size		Start Date	Fee (EUR)
09146	Oat Flour	chlormequat, mepiquat, glyphosate, AMPA and trinexapac-ethyl	FCMS5-CCP38	100 g		20/04/2022	295
09146b	Blank Oat Flour	blank	BLMS5-CCP67	100 g		20/04/2022	94
09152	Wheat Flour	chlormequat, mepiquat, glyphosate, AMPA and trinexapac-ethyl	FCMS5-CCP49	100 g		10/11/2022	295
09152b	Blank Wheat Flour	blank	BLMS5-CCP11	100 g		10/11/2022	94
19333	Grape Purée	dithiocarbamates	FCMS3-FRU49	90 g		21/03/2022	385
19333b	Blank Grape Purée	blank	BLMS3-FRU15	90 g		21/03/2022	118
19348	Lettuce Purée	dithiocarbamates	FCMS3-VEG49	90 g		19/09/2022	396
19348b	Blank Lettuce Purée	blank	BLMS3-VEG18	90 g		19/09/2022	121
19363	Red Grape Purée	single residue monitoring (see page 38 for potential residues)	FCMS5-FRU65	100 g		20/03/2023	504
19363b	Blank Red Grape Purée	blank	BLPM1-FRU28	100 g		20/03/2023	121
19364	Mandarin Purée	dithiocarbamates	FCMS3-FRU54	90 g		20/03/2023	396
19364b	Blank Mandarin	blank	BLMS3-FRU18	90 g		20/03/2023	121



## Potential Pesticide Residues

**Multi Residue:** 2, 4-D (free acid only), 2-phenylphenol (ortho-phenylphenol), 6-benzylaminopurine, abamectin (sum of avermectin B1a and B1b only), acephate, acetamiprid, acetochlor, aclonifen, acrinathrin, aldicarb, aldicarb-sulfone (aldoxycarb), aldicarb-sulfoxide, aldrin, allethrin, ametocradin, amidosulfuron, atrazine, azinphos-ethyl, azinphos-methyl, azoxystrobin, benalaxyl, bendiocarb, benthiaivalicarb-isopropyl, bifenthrin (sum of isomers), biphenyl, bitertanol, boscalid, bromophos-ethyl, bromopropylate, bromuconazole (sum of diastereoisomers), bupirimate, buprofezin, cadusafos, carbaryl, carbendazim, carbofuran, carbofuran (3-hydroxy), carboxin, chlorantraniliprole (rynaxypyr), chlordane (cis), chlordane (oxy), chlordane (trans), chlorfenapyr, chlorfenvinphos (sum of E and Z isomers), chloridazon, chlorobenzilate, chlorothalonil, chlorpropham, chlorpyrifos (ethyl), chlorpyrifos-methyl, chlorthal-dimethyl, clofentezine, clothianidin, coumaphos, cyazofamid, cyflufenamid, cyfluthrin (sum of constituent isomers), cyhalothrin-lambda (includes cyhalothrin-gamma) (sum of R, S and S, R isomers), cymoxanil, cypermethrin (sum of constituent isomers), cyproconazole, cyprodinil, cyromazine, DDD-pp (TDE), DDE-pp, DDT-op, DDT-pp, deltamethrin, demeton-S-methyl, demeton-S-methyl-sulfone, demeton-S-methyl-sulfoxide (oxydemeton-methyl), diafenthiuron, diazinon, dichlorvos, dicloran, dicofol (sum of p, p' and o, p' isomers), dicrotophos, dieldrin, diethofencarb, difenoconazole, diflubenzuron, dimethoate, dimethomorph (sum of isomers), dimoxystrobin, diniconazole, dinotefuran, diphenylamine, disulfoton, disulfoton-sulfone, disulfoton-sulfoxide, diuron, dodine, Emamectin (as emamectin benzoate B1a, expressed as emamectin), endosulfan I (alpha), endosulfan II (beta), endosulfan-sulfate, endrin, EPN, epoxiconazole, ethiofencarb, ethiofencarb-sulfone, ethiofencarb-sulfoxide, ethion, ethirimol, ethoprophos, etofenprox, etoxazole, etrimfos, famoxadone, fenamidone, fenamiphos, fenamiphos-sulfone, fenamiphos-sulfoxide, fenarimol, fenazaquin, fenbuconazole, fenbutatin oxide, fenhexamid, fenitrothion, fenoxycarb, fenpropathrin, fenpropidin (sum of fenpropidin and its salts, expressed as fenpropidin), fenpropimorph (sum of isomers), fenpyroximate, fensulfothion, fensulfothion-oxon, fensulfothion-oxon-sulfone, fensulfothion-sulfone, fenthion (parent compound only), fenthion-sulfone, fenthion-sulfoxide, fenvalerate (sum of constituent isomers in any ratio including esfenvalerate), fipronil (parent compound only), fipronil-desulfinyl, fipronil-sulfone, flonicamid, fluazifop (free acid), fluazinam, flubendiamide, flucythrinate, fludioxonil, flufenacet (parent compound only), flufenoxuron, fluopicolide, fluopyram, Fluoxastrobin (sum of fluoxastrobin and its Z-isomer), fluquinconazole, flusilazole, flutolanil, flutriafol, fluvalinate (tau), fluxapyroxad, fonofos, fosthiazate, furathiocarb, haloxyfop (free acid), HCB (hexachlorobenzene), HCH-A (alpha hexachlorocyclohexane), HCH-B (beta hexachlorocyclohexane), HCH-G (gamma hexachlorocyclohexane / lindane), heptachlor, heptachlor-epoxide (cis), heptachlor-epoxide (trans), heptenophos, hexaconazole, hexythiazox, imazalil, imidacloprid, indoxacarb (sum of indoxacarb and its R enantiomer), iprodione, iprovalicarb, isocarbofos, isofenphos (ethyl), isofenphos-methyl, isoprocarb, isoprothiolane, isoproturon, kresoxim-methyl, lenacil, linuron, lufenuron, malaaxon, malathion, mandipropamid, mecarbam, mepanipyrim, metaflumizone (sum of E and Z isomers), metalaxyl (sum of constituent isomers including metalaxyl-M), metamitron, metconazole, methacrifos, methamidophos, methidathion, methiocarb, methiocarb-sulfone, methiocarb-sulfoxide, methomyl, methoxychlor, methoxyfenozide, metolachlor (sum of constituent isomers including S-metolachlor), metrafenone, metribuzin, mevinphos (sum of E and Z isomers), molinate, monocrotophos, monolinuron, myclobutanil, nitrofen, novaluron, omethoate, oxadiazon, oxadixyl, oxamyl, oxyfluorfen, paclobutrazol, parathion (-ethyl), parathion-methyl, penconazole, pencycuron, pendimethalin, penflufen, pentachloroaniline, penthioapyrad, permethrin (sum of isomers), phenthoate, phorate, phorate-sulfone, phorate-sulfoxide, phosalone, phosmet, phosphamidon, phoxim, phthalimide, picoxystrobin, piperonyl butoxide, pirimicarb, pirimicarb (desmethyl), pirimiphos-ethyl, pirimiphos-methyl, prochloraz (parent compound only), procymidone, profenofos, promecarb, prometryn, propamocarb, propargite, propetamphos, propiconazole, propoxur, propyzamide, proquinazid, prosulfocarb, prothioconazole-desthio (sum of isomers), prothiofos, pymetrozine, pyraclostrobin, pyrazophos, pyrethrin (sum), pyridaben, pyridalyl, pyridaphenthion, pyrimethanil, pyriproxyfen, quassia, quinalphos, quinoxifen, quintozone, spinetoram, spinosad (sum of spinosyn A and D), spiroticlofen, spiromesifen, spirotetramat (parent compound only), spirotetramat-enol (expressed as spirotetramat), spiroxamine, tebuconazole, tebufenozide, tebufenpyrad, tecnazene, teflubenzuron, tefluthrin, terbufos, terbufos-sulfone, terbufos-sulfoxide, terbuthylazine, tetrachlorvinphos, tetraconazole, tetradifon, tetramethrin (sum of constituent isomers), TFNA, TFNG, thiabendazole, thiacloprid, thiamethoxam, thiodicarb, thiophanate-methyl, THPI, tolclofos-methyl, tolfenpyrad, tolylfluanid, triadimefon, triadimenol, triallate, triazophos, tricyclazole, trifloxystrobin, triflumuron, trifluralin, triticonazole, vinclozolin, zoxamide.

**Multi Residue Honey Matrix:** acetamiprid, amitraz (parent compound only), clothianidin, coumaphos, dinotefuran, DMF (N-2, 4-dimethylformamide), DMPF (N-2, 4-dimethylphenylformamide), fluvalinate (tau), imidacloprid, methamidophos, nitenpyram, thiacloprid, thiamethoxam.

**Multi Residue Tea Matrix:** 2-phenylphenol (ortho-phenylphenol), abamectin (sum of avermectin B1a and B1b only), acetamiprid, anthraquinone, bifenthrin (sum of isomers), boscalid, buprofezin, carbaryl, carbendazim, chlorfenapyr, chlorfenvinphos (sum of E and Z isomers), chlorothalonil, chlorpyrifos (ethyl), cyhalothrin-lambda (includes cyhalothrin-gamma) (sum of R, S and S, R isomers), cypermethrin (sum of constituent isomers), DDD-pp (TDE), DDE-pp, DDT-op, DDT-pp, deltamethrin, diazinon, dicofol (sum of p, p' and o, p' isomers), dimethoate, dinotefuran, diuron, endosulfan I (alpha), endosulfan II (beta), endosulfan-sulfate, ethion, fenazaquin, fenitrothion, fenpropathrin, fenpropimorph (sum of isomers), fenvalerate (sum of constituent isomers in any ratio including esfenvalerate), fipronil-sulfone, flubendiamide, HCB (hexachlorobenzene), HCH-A (alpha hexachlorocyclohexane), HCH-B (beta hexachlorocyclohexane), HCH-G (gamma hexachlorocyclohexane / lindane), imidacloprid, linuron, malathion, methomyl, monocrotophos, oxadixyl, permethrin (sum of isomers), phenthoate, phosalone, picoxystrobin, pirimiphos-methyl, procymidone, propargite, propiconazole, pyridaben, pyrimethanil, quinalphos, tebuconazole, terbuthylazine, tolfenpyrad, triazophos, trifloxystrobin

**EU Red List:** aldrin: cadusafos, chlorpropham, demeton-S-methyl, demeton-S-methyl-sulfone, demeton-S-methyl-sulfoxide (oxydemeton-methyl), dieldrin, dimethoate, diphenylamine, disulfoton, disulfoton-sulfone, disulfoton-sulfoxide, endrin, ethoprophos, fensulfothion, fensulfothion-oxon, fensulfothion-oxon-sulfone, fensulfothion-sulfone, fentin (as triphenyltin cation), fipronil (parent compound only), fipronil-desulfinyl, fipronil-sulfone, haloxyfop (free acid), HCB (hexachlorobenzene), heptachlor, heptachlor-epoxide (cis), heptachlor-epoxide (trans), nitrofen, omethoate, terbufos, terbufos-sulfone, terbufos-sulfoxide.

**Specified Residues:** acetamiprid, aldrin, azoxystrobin, bifenthrin (sum of isomers), chlorpyrifos (ethyl), chlorpyrifos-methyl, cypermethrin (sum of constituent isomers), DDE-pp, deltamethrin, dichlorvos, dieldrin, dimethoate, endosulfan I (alpha), endosulfan II (beta), endosulfan-sulfate, endrin, ethion, fenpropathrin, fenthion-sulfone, HCH-A (alpha hexachlorocyclohexane), HCH-B (beta hexachlorocyclohexane), HCH-G (gamma hexachlorocyclohexane / lindane), malathion, parathion-methyl, permethrin (sum of isomers), triazophos

**Recommended Monitoring:** abamectin (sum of avermectin B1a and B1b only), amitraz (parent compound only), bifenthrin (sum of isomers), cypermethrin (sum of constituent isomers), diazinon, dichlorvos, DMF (N-2, 4-dimethylformamide), DMPF (N-2, 4-dimethylphenylformamide), etoxazole, fipronil (parent compound only), fipronil-desulfinyl, fipronil-sulfone, flufenoxuron, pyridaben, pyriproxyfen, thiamethoxam

**Single Residue Monitoring:** 2, 4-DB, chlormequat (sum of chlormequat and its salts; expressed as chlormequat chloride), ethephon, ETU, fenbutatin oxide, fosetyl aluminium, glyphosate, haloxyfop (free acid), maleic hydrazide, mepiquat (sum of mepiquat and its salts; expressed as mepiquat chloride), MPPA, phosphonic acid, PTU, quizalofop (free acid)

**Fat Soluble:** abamectin (sum of avermectin B1a and B1b only), acephate, aldicarb, aldicarb-sulfone (aldoxycarb), aldicarb-sulfoxide, aldrin, allethrin, azamethiphos, azinphos-ethyl, azinphos-methyl, bendiocarb, bifenthrin (sum of isomers), bixafen, boscalid, bromophos-ethyl, cadusafos, carbaryl, carbendazim, carbofuran, carbofuran (3-hydroxy), chlordane (cis), chlordane (oxy), chlordane (trans), chlorfenvinphos (sum of E and Z isomers), chlorobenzilate, chlorpropham, chlorpyrifos (ethyl), chlorpyrifos-methyl, coumaphos, cyfluthrin (sum of constituent isomers), "cyhalothrin-lambda (includes cyhalothrin-gamma) (sum of R, S and S, R isomers)", cypermethrin (sum of constituent isomers), cyproconazole, cyromazine, DDD-pp (TDE), DDE-pp, DDT-op, DDT-pp, deltamethrin, diazinon, dieldrin, diflubenzuron, dimethoate, endosulfan I (alpha), endosulfan II (beta), endosulfan-sulfate, endrin, epoxiconazole, ethoprophos, etofenprox, etoxazole, famoxadone, fenitrothion, fenoxycarb, fenpropathrin, fenpropidin (sum of fenpropidin and its salts, expressed as fenpropidin), fenpropimorph (sum of isomers), fenthion (parent compound only), fenthion-sulfone, fenthion-sulfoxide, fenvalerate (sum of constituent isomers in any ratio including esfenvalerate), fipronil (parent compound only), fipronil-desulfinyl, fipronil-sulfone, fluazifop (free acid), flufenoxuron, flumethrin, fluquinconazole, flusilazole, fluvalinate (tau), haloxyfop (free acid), HCB (hexachlorobenzene), HCH-A (alpha hexachlorocyclohexane), HCH-B (beta hexachlorocyclohexane), HCH-D (delta hexachlorocyclohexane), HCH-G (gamma hexachlorocyclohexane / lindane), heptachlor, heptachlor-epoxide (cis), heptachlor-epoxide (trans), indoxacarb (sum of indoxacarb and its R enantiomer), lufenuron, malathion, metaflumizone (sum of E and Z isomers), metazachlor, methacrifos, methamidophos, methidathion, methiocarb, methiocarb-sulfone, methiocarb-sulfoxide, methomyl, methoxychlor, nitrofen, omethoate, oxamyl, parathion (-ethyl), parathion-methyl, PCB 101, PCB 118, PCB 138, PCB 153, PCB 180, PCB 28, PCB 52, pendimethalin, permethrin (sum of isomers), phosmet, phoxim, pirimicarb, pirimicarb (desmethyl), pirimiphos-methyl, prochloraz (parent compound only), profenofos, propetamphos, propoxur, prothioconazole-desthio (sum of isomers), pyrazophos, pyridaben, pyriproxyfen, quintozone, spinosad (sum of spinosyn A and D), tebuconazole, tecnazene, teflubenzuron, tefluthrin, tetrachlorvinphos, tetraconazole, thiacloprid, thiamethoxam, thiodicarb, triazophos, trifluralin, vinclozolin

**Quaternary Ammonium Compounds (QACs):** BAC 10 (Benzyldimethyldecylammonium Chloride), BAC 12 (Benzyldimethyldodecylammonium Chloride), BAC 14 (Benzyldimethyltetradecylammonium Chloride), BAC 16 (Benzyldimethylhexadecylammonium Chloride), DDAC (Didecyldimethylammonium Chloride)

**Disinfectant By Products:** BAC 10 (Benzyldimethyldecylammonium Chloride), BAC 12 (Benzyldimethyldodecylammonium Chloride), BAC 14 (Benzyldimethyltetradecylammonium Chloride), BAC 16 (Benzyldimethylhexadecylammonium Chloride), chlorate, DDAC (Didecyldimethylammonium Chloride), perchlorate

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