



**THE NATIONAL INSTITUTE
OF HORTICULTURAL RESEARCH**
Konstytucji 3 Maja 1/3 Str., 96-100 Skierniewice, Poland

FOOD SAFETY LABORATORY
Pomologiczna 13 B Str., 96-100 Skierniewice, Poland
Tel: (+ 48 46) 834-52-86; 834-52-72

THE COMMERCIAL OFFER

Accredited methods:

The Food Safety Laboratory offers tests of residues of plant protection products in food (fresh and processed), in agricultural products of plant origin, in eggs, in soil and in water by the methods shown in the table below, accredited by the Polish Center for Accreditation - accreditation number AB 757. These methods are regularly checked in proficiency tests organized by the European Union Reference Laboratories (EURL).

The Food Safety Laboratory does not collect samples for testing, the samples are provided by the customer.

The Method	Matrices	Technics	The scope of analyze & LOQ*	The net price** (PLN)
PN-EN 15662:2018 Multimethod for the determination of pesticide residues using GC- and LC-based analysis following acetonitrile extraction/partitioning and clen-up by dispersive SPE – Modular QuEChERS-method	Food, Agriculture Products of Plant Origin Eggs	GC-MS/MS	Substances & LOQ acc. Table 1a – 1e	450,00
		LC-MS/MS	Substances & LOQ acc. Table 2a – 2e	350,00
		LC-MS/MS	Acidic pesticides i GO wg Tabel 3a – 3b	300,00
		LC-MS/MS	Submethod for Dithianon, Dodine, TFNA, TFNG (Flonicamid methabolites) & LOQ acc. Table 4a – 4b	200,00
		LC-MS/MS	Nicotine – GO - 0,01 mg/kg	200,00
	Soil	GC-MS/MS	Substances & LOQ acc. Table 5	400,00
		LC-MS/MS	Substances & LOQ acc. Table 6	300,00
PB-02 ed.2 z dn.15.02.2021	Water	LC-MS/MS	Substances & LOQ acc. Table 7	200,00
PB-03 ed.1 z dn.15.02.2021		GC-MS/MS	Substances & LOQ acc. Table 8	200,00
PN-EN 12396-2:2002 Determination of dithiocarbamate and thiuram disulfide residues	Food, Agriculture Products of Plant Origin	GC-MS	Dithiocarbamates (dithiocarbamates expressed as CS ₂ , including maneb, mancozeb, metiram, propineb, thiram and ziram) – LOQ: 0,005mg/kg	150,00
PB-04 ed.1 z dn.10.01.2022	Food, Agriculture Products of Plant Origin	GC-MS	Ethylene oxide (sum of ethylene oxide and 2-chloro-ethanol expressed as ethylene oxide) – LOQ: 0,02 mg/kg (fruits&vegs) / 0,05 mg/kg (oily) / 0,1 mg/kg (specific)	300,00
EURL-SRM QuPPE - PO Quick Method for the Analysis of Residues of numerous Highly Polar Pesticides in Food of Plant Origin involving Simultaneous Extraction with Methanol and LC-MS/MS Determination	Food, Agriculture Products of Plant Origin	LC-MS/MS	Glyphosate –LOQ: 0,01 mg/kg (fruits&vegs) / 0,05 mg/kg (other matrices)	400,00
			Trimethyl-sulfonium cation – LOQ: 0,01 mg/kg (fruits&vegs) / 0,05 mg/kg (other matrices)	
			Glufosynate, its isomers and metabolites (MPP, NAG) – LOQ: 0,025 mg/kg (fruits&vegs, cereals, oily) / 0,05 mg/kg (other matrices)	
			Ethephon – LOQ: 0,01 mg/kg	300,00
			Maleic hydrazide – LOQ: 0,05 mg/kg	
			Chlorates/Perchlorates – LOQ: 0,01 mg/kg Fosetyl-Al – LOQ: 0,01mg/kg Phosphonic acid and its salts – LOQ: 0,1 mg/kg Bromide ion – LOQ 0,2 mg/kg (fruits&vegs) / 0,5 mg/kg (cereals, oily)	350,00
			Chlormequat –LOQ: 0,005 mg/kg Mepiquat –LOQ: 0,005 mg/kg Cyromazine –LOQ: 0,01 mg/kg	350,00

* - LOQ – Limit of quantitation.

** - the current VAT tax (23%) should be added to the net price.



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Non-accredited methods:

The Food Safety Laboratory also offers tests for residues of plant protection products presented in the table below. The mentioned compounds are determined according to the "EURL-SRM QuPPE-PO" or "PN-EN 15662: 2018" methods, but at the moment they are not accredited by the Polish Center for Accreditation.

The Method	Matrices	Technics	The scope of analyze & LOQ*	The net price** (PLN)
EURL-SRM QuPPE - PO Quick Method for the Analysis of Residues of numerous Highly Polar Pesticides in Food of Plant Origin involving Simultaneous Extraction with Methanol and LC-MS/MS Determination	Food, Agriculture Products of Plant Origin	LC-MS/MS	AMPA ¹ – LOQ: 0,05 mg/kg N-Acetyl Glyphosate – LOQ: 0,05 mg/kg	300,00
			ETU ⁴ – LOQ: 0,01 mg/kg PTU ⁵ – LOQ: 0,005 mg/kg	300,00
PN-EN 15662:2018	Food, Agriculture Products of Plant Origin	LC-MS/MS	DDAC ² , BAC ³ – GO - 0,01 mg/kg	300,00

* - LOQ – Limit of quantitation.

** - the current VAT tax (23%) should be added to the net price.

¹ - AMPA – Aminomethylphosphonic acid – Glyphosate metabolite

² - DDAC – Didecyltrimethylammonium chloride (C8, C10)

³ - BAC – Benzalkonium chloride (C8, C10, C12, C14, C16)

⁴ - ETU (ethylenethiourea) and ⁵ - PTU (propylenethiourea). These are metabolites formed in plants after the use of some dithiocarbamate fungicides. Their presence may verify the use of propineb (PTU) or, for example, mancozeb or metiram (ETU)

Important issue:

The deadline for the execution of orders and the scope of the tests to be agreed with the client.

When selecting a larger number of analytical methods / techniques or delivering a larger number of test samples, the total price for the order may be negotiable.

Pages 3 and 4 show the suggested 'Packages' and their price.



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Suggested Packages

The Package	The Method	Technics	The scope of analyze & LOQ*	The net price** (PLN)
Package „Basic” (first choice for checking our food)	PN-EN 15662:2018	GC-MS/MS	Substances & LOQ acc.Table 1a – 1e	600,00
		LC-MS/MS	Substances & LOQ acc.Table 2a – 2e	
Package „Standard” (useful for Organic or verification of eksported/imported food)	PN-EN 15662:2018	GC-MS/MS	Substances & LOQ acc.Table 1a – 1e	700,00
		LC-MS/MS	Substances & LOQ acc.Table 2a – 2e	
	PN-EN 12396-2:2002	GC/MS	Dithiocarbamates expressed as CS ₂	
Package „APPLE PLUS” (dedicated for our fruits)	PN-EN 15662:2018	GC-MS/MS	Substances & LOQ acc.Table 1a – 1e	850,00
		LC-MS/MS	Substances & LOQ acc.Table 2a – 2e	
		LC-MS/MS	Substances & LOQ acc.Table 4a or 4b	
	PN-EN 12396-2:2002	GC/MS	Dithiocarbamates expressed as CS ₂	
Package „Eko – advanced” (useful for cereals)	PN-EN 15662:2018	GC-MS/MS	Substances & LOQ acc.Table 1a – 1e	1350,00
		LC-MS/MS	Substances & LOQ acc.Table 2a – 2e	
	PN-EN 15662:2018	GC/MS	Dithiocarbamates expressed as CS ₂	
	PN-EN 15662:2018	LC-MS/MS	Substances & LOQ acc.Table 3a or 3b	
	QuPPE-PO	LC-MS/MS	Glyphosate, Trimethyl-sulfonium cation, Glufosynate, Ethephon	
	QuPPE-PO	LC-MS/MS	Chlormequat, Mepiquat, Cyromazine	
Package „Baby Food” (for our children)	PN-EN 15662:2018	GC-MS/MS	Substances & LOQ acc.Table 1a – 1e	900,00
		LC-MS/MS	Substances & LOQ acc.Table 2a – 2e	
			Other pesticides resulting from Reg. of the Minister of Health on foodstuffs for particular nutritional uses (Journal of Laws of 2010, No. 180, item 1214), as amended	
	PN-EN 12396-2:2002	GC-MS	Dithiocarbamates expressed as CS ₂	
	QuPPE-PO	LC-MS/MS	Chlormequat, Mepiquat, Cyromazine	
Package „Baby Food PLUS” (additional analyzes – just to be sure)	PN-EN 15662:2018	LC-MS/MS	Substances & LOQ acc.Table 4a or 4b	750,00
	QuPPE-PO	LC-MS/MS	Glyphosate, Trimethyl-sulfonium cation, Glufosynate, Ethephon	
			Fosetyl-Al, Phosphonic acid, Chlorates, Perchlorates, Bromide ion	



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Suggested Packages – cont.

The Package	The Method	Technics	The scope of analyze & LOQ*	The net price** (PLN)
Package „Fungi” (dedicated for champignon and oyster mushrooms)	PN-EN 15662:2018	LC-MS/MS	Substances & LOQ acc.Table 2a	700,00
	QuPPe-PO	LC-MS/MS	Chlormequat, Mepiquat, Cyromazine	
	PN-EN 15662:2018	LC-MS/MS	Nicotine	
Package „Herbi” (useful for assessing herbicidal damage)	PN-EN 15662:2018	LC-MS/MS	Substances & LOQ acc.Table 3a or 3b	550,00
	QuPPe-PO	LC-MS/MS	Glyphosate, Trimethyl-sulfonium cation, Glufosynate, Ethephon	
Package „Soil” (first choice for checking your soil problems)	PN-EN 15662:2018	GC-MS/MS	Substances & LOQ acc.Table 5	550,00
		LC-MS/MS	Substances & LOQ acc.Table 6	
Package „Soil PLUS” (seful for soil assessment in Organic Farming system)	PN-EN 15662:2018	GC-MS/MS	Substances & LOQ acc.Table 5	900,00
		LC-MS/MS	Substances & LOQ acc.Table 6	
		LC-MS/MS	Substances & LOQ acc.Table 3b	
	QuPPe-PO	LC-MS/MS	Glyphosate, AMPA, N-Acetyl Glyphosate, Trimethyl-sulfonium cation **	

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** – non-accredited method



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Table 1a. The list of analyzed pesticides and their limits of quantification (LOQ) – GC-MS/MS – fruits & vegs

No.	Pesticide name	LOQ [mg/kg]	No.	Pesticide name	LOQ [mg/kg]	No.	Pesticide name	LOQ [mg/kg]	No.	Pesticide name	LOQ [mg/kg]
1.	Acetochlor	0.005	73.	DDE-o,p	0.005	145.	Fipronil, sulfone	0.0025	217.	Phenthoate	0.005
2.	Acrinathrin	0.005	74.	DDE-p,p	0.005	146.	Fluchloralin	0.005	218.	Phenylphenol	0.005
3.	Alachlor	0.005	75.	DDM	0.005	147.	Flucythrinate	0.005	219.	Phorate	0.005
4.	Aldrin	0.001	76.	DDT-o,p	0.005	148.	Fludioxonil	0.005	220.	Phorate sulfone	0.01
5.	Allethrin	0.005	77.	DDT-p,p	0.005	149.	Flumetralin	0.005	221.	Phorate sulfoxide	0.005
6.	Ametryn	0.005	78.	Deltamethrin	0.005	150.	Flumioxazin	0.01	222.	Phosalone	0.005
7.	Aminocarb	0.005	79.	Demeton-S	0.005	151.	Fluorodifon	0.005	223.	Phosfamidon	0.005
8.	Anthraquinone	0.005	80.	Desmetryn	0.005	152.	Fluotrimazole	0.005	224.	Phosmet	0.005
9.	Atrazine	0.005	81.	Dialifos	0.005	153.	Fluquinconazole	0.005	225.	Phthalimide	0.005
10.	Azaconazole	0.005	82.	Diazinon	0.005	154.	Flurprimidole	0.01	226.	Picolinafen	0.005
11.	Azinphos ethyl	0.005	83.	Dichlobenil	0.005	155.	Flurtamone	0.01	227.	Picoxystrobin	0.005
12.	Azinphos methyl	0.005	84.	Dichlofenthion	0.005	156.	Flusilazole	0.005	228.	Piperonyl butoxide	0.005
13.	Azoxystrobin	0.005	85.	Dichlofluanid	0.005	157.	Flutriafol	0.005	229.	Piperophos	0.005
14.	Beflubutamid	0.005	86.	Dichloroaniline	0.005	158.	Fluvalinate	0.005	230.	Pirymicarb	0.005
15.	Benalaxyl	0.005	87.	2,6-Dichlorobenzamide	0.01	159.	Folpet	0.005	231.	Pirimicarb, desmethyl	0.005
16.	Benfluralin	0.005	88.	Dichlorobenzophenone	0.005	160.	Fonofos	0.005	232.	Pirimiphos ethyl	0.01
17.	Benfuracarb	0.005	89.	Dichlorvos	0.005	161.	Formothion	0.005	233.	Pirimiphos methyl	0.005
18.	Bifenazate	0.005	90.	Diclobutrazol	0.005	162.	Furalaxyl	0.005	234.	Procymidone	0.005
19.	Bifenox	0.005	91.	Dicloran	0.005	163.	Furathiocarb	0.005	235.	Profenofos	0.005
20.	Bifenthrin	0.005	92.	Dicofol	0.005	164.	Halfenprox	0.005	236.	Profluralin	0.005
21.	Biphenyl	0.005	93.	Dieldrin	0.001	165.	α -HCH	0.005	237.	Prometryn	0.005
22.	Bitteranol	0.005	94.	Diethofencarb	0.005	166.	β -HCH	0.005	238.	Prometon	0.005
23.	Boscalid	0.005	95.	Difenoconazole	0.005	167.	Heptachlor	0.001	239.	Propachlor	0.005
24.	Bromfeninfos	0.005	96.	Dimethachlor	0.005	168.	– trans epoxide	0.0025	240.	Propargite	0.005
25.	Bromocyclen	0.005	97.	Dimethoate	0.005	169.	– cis epoxide	0.0025	241.	Propazine	0.005
26.	Bromophos ethyl	0.005	98.	Dimethomorph	0.005	170.	Heptenophos	0.005	242.	Propetamphos	0.005
27.	Bromophos methyl	0.005	99.	Dimethylchlorotal	0.005	171.	HCB	0.001	243.	Propham	0.005
28.	Bromopropylate	0.005	100.	Dimoxystrobin	0.005	172.	Hexaconazole	0.005	244.	Propiconazole	0.005
29.	Bupirimate	0.005	101.	Diniconazole	0.005	173.	Imazalil	0.005	245.	Propyzamide	0.005
30.	Buprofezin	0.005	102.	Dinitramine	0.01	174.	Iprobenfos	0.005	246.	Prothioconazole	0.005
31.	Butachlor	0.005	103.	Dinobuton	0.01	175.	Iprodione	0.005	247.	Prothiofos	0.005
32.	Butafenacil	0.005	104.	Dioxabenofofos	0.005	176.	Isocarbophos	0.005	248.	Pyraclostrobin	0.005
33.	Butylate	0.005	105.	Dioksathion	0.005	177.	Isofenphos ethyl	0.005	249.	Pyrazophos	0.005
34.	Captafol	0.005	106.	Dioxacarb	0.005	178.	Isofenphos methyl	0.005	250.	Pyrethrus	0.05
35.	Captan	0.005	107.	Diphenylamine	0.005	179.	Jodofenphos	0.005	251.	Pyridaben	0.005
36.	Carbaryl	0.005	108.	Disulfoton	0.001	180.	Kresoxim methyl	0.005	252.	Pyridalyl	0.01
37.	Carboxin	0.005	109.	Ditalimfos	0.005	181.	Lindan	0.005	253.	Pyridaphenthion	0.01
38.	Chinomethionat	0.005	110.	DMST	0.005	182.	Malaoxon	0.005	254.	Pyrifenoxy	0.005
39.	Chlorbenside	0.005	111.	Dodemorph	0.005	183.	Malathion	0.005	255.	Pyrimethanil	0.005
40.	Chlorbufam	0.005	112.	Edifenphos	0.005	184.	Mecarbam	0.005	256.	Pyriproxyfen	0.005
41.	Chlordane, -cis	0.005	113.	α -Endosulfan	0.005	185.	Mecanipyrim	0.005	257.	Pyroquilon	0.005
42.	Chlordane, -oxy	0.01	114.	β -Endosulfan	0.0025	186.	Mecpronil	0.005	258.	Qinoxifen	0.005
43.	Chlordane, -trans	0.01	115.	Endosulfan, sulph.	0.005	187.	Metaxyl	0.005	259.	Quinalphos	0.005
44.	Chlorfenapyr	0.005	116.	Endrin	0.0025	188.	Metazachlor	0.005	260.	Quintozene	0.005
45.	Chlorfenson	0.005	117.	Endrin, ketone	0.01	189.	Metconazole	0.005	261.	Resmethrin-cis	0.005
46.	Chlorfenvinphos	0.005	118.	EPN	0.005	190.	Methacrisfos	0.005	262.	Silaflofen	0.01
47.	Chlormephos	0.005	119.	Epoxyconazole	0.005	191.	Methidathion	0.005	263.	Simazine	0.01
48.	Chlorobenzilate	0.005	120.	Esfenvalerate	0.005	192.	Methoxychlor	0.005	264.	Spiromesifen	0.005
49.	Chloropropylate	0.005	121.	Etaconazole	0.005	193.	Metolachlor	0.005	265.	Sulfotep	0.005
50.	Chlorothalonil	0.005	122.	Ethalfuralin	0.005	194.	Metribuzin	0.005	266.	Tebuconazole	0.005
51.	Chlorpropham	0.005	123.	Ethion	0.005	195.	Mevinphos	0.005	267.	Tebuconazole	0.005
52.	Chlorpyrifos	0.005	124.	Ethofumesate	0.005	196.	Molinate	0.01	268.	Tecnazene	0.005
53.	Chlorpyrifos-Me	0.005	125.	Ethoprophos	0.005	197.	Myclobutanil	0.005	269.	Tefluthrin	0.005
54.	Chlorthion	0.005	126.	Ethoxyquin	0.005	198.	Nitralin	0.005	270.	Terbacil	0.005
55.	Chlorthiophos	0.005	127.	Etofenprox	0.005	199.	Nitrapyrin	0.005	271.	Terbufos	0.001
56.	Clodinafop-propargyl	0.005	128.	Etrinfos	0.005	200.	Nitrofen	0.001	272.	Terbutryn	0.005
57.	Clomazone	0.005	129.	Fenamiphos	0.005	201.	Nitrotal-isopropyl	0.005	273.	Tetrachlorvinphos	0.005
58.	Coumaphos	0.005	130.	Fenarimol	0.005	202.	Nuarimol	0.005	274.	Tetraconazole	0.005
59.	Crimidine	0.005	131.	Fenazaquin	0.005	203.	Oxadiazon	0.01	275.	Tetradifon	0.005
60.	Cyanazine	0.005	132.	Fenbuconazole	0.005	204.	Oxadixyl	0.005	276.	TetrahydroPhthalimide	0.005
61.	Cyanofenphos	0.005	133.	Fenchlorphos	0.005	205.	Oxyfluorfen	0.005	277.	Tetramethrin	0.005
62.	Cyanophos	0.005	134.	Fenhexamid	0.005	206.	Paclobutrazol	0.005	278.	Tetrasul	0.005
63.	Cycloate	0.005	135.	Fenitrothion	0.005	207.	Parathion	0.005	279.	Thiobencarb	0.01
64.	Cyfluthrin	0.005	136.	Fenoxycarb	0.005	208.	Parathion-Me	0.005	280.	Tolclofos methyl	0.005
65.	Cyhalothrin, gamma	0.005	137.	Fenpropathrin	0.005	209.	Penconazole	0.005	281.	Tolylfluanid	0.005
66.	Cyhalothrin, lambda	0.005	138.	Fenpropidin	0.005	210.	Pencycureon	0.005	282.	Triadimefon	0.005
67.	Cypermethrin	0.005	139.	Fenpropimorph	0.005	211.	Pendimethalin	0.005	283.	Triadimenol	0.005
68.	Cypazine	0.01	140.	Fenpyrazamine	0.01	212.	Penflufen	0.01	284.	Tri-Allate	0.005
69.	Cyproconazole	0.005	141.	Fenthion	0.005	213.	Pentachloroaniline	0.01	285.	Triazophos	0.005
70.	Cyprodinil	0.005	142.	Fenvalerate	0.005	214.	Permethrin	0.005	286.	Trifloxystrobin	0.005
71.	DDD-o,p	0.005	143.	Fipronil	0.001	215.	Perthan	0.005	287.	Triflumizole	0.005
72.	DDD-p,p	0.005	144.	Fipronil, desulfinyl	0.0025	216.	Pethoxamid	0.01	288.	Trifluralin	0.005
									289.	Vinclozolin	0.005



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Table 1b. The list of analyzed pesticides and their limits of quantification (LOQ) – GC-MS/MS – rape, soybean, oily

No.	Pesticide name	LOQ [mg/kg]	No.	Pesticide name	LOQ [mg/kg]	No.	Pesticide name	LOQ [mg/kg]	No.	Pesticide name	LOQ [mg/kg]
1.	Acetochlor	0.005	71.	DDE-o,p	0.005	141.	Flucythrinate	0.005	211.	Phenylphenol	0.005
2.	Acrinathrin	0.005	72.	DDE-p,p	0.005	142.	Fludioxonil	0.005	212.	Phorate	0.005
3.	Alachlor	0.005	73.	DDM	0.005	143.	Flumetralin	0.005	213.	Phorate sulfone	0,01
4.	Aldrin	0.001	74.	DDT-o,p	0.005	144.	Flumioxazin	0,01	214.	Phorate sulfoxide	0.005
5.	Allethrin	0.005	75.	DDT-p,p	0.005	145.	Fluorodifon	0.005	215.	Phosalone	0.005
6.	Ametryn	0.005	76.	Deltamethrin	0.005	146.	Flutriazazole	0.005	216.	Phthalimide	0.005
7.	Aminocarb	0.005	77.	Demeton-S	0.005	147.	Fluquinconazole	0.005	217.	Picolinafen	0.005
8.	Antraquinone	0.005	78.	Desmetyrn	0.005	148.	Flurprimidole	0.01	218.	Picoxystrobin	0.005
9.	Atrazine	0.005	79.	Diazinon	0.005	149.	Flurtamone	0,01	219.	Piperonyl butoxide	0.005
10.	Azaconazole	0.005	80.	Dichlobenil	0.005	150.	Flusilazole	0.005	220.	Piperophos	0.005
11.	Azinphos ethyl	0.005	81.	Dichlofenthion	0.005	151.	Flutriafol	0.005	221.	Pirimicarb	0.005
12.	Azinphos methyl	0,01	82.	Dichlofluanid	0.005	152.	Fluralinate	0.005	222.	Pirimicarb, desmethyl	0.005
13.	Azoxystrobin	0.005	83.	Dichloroaniline	0.005	153.	Folpet	0.005	223.	Pirimiphos ethyl	0,01
14.	Beflubutamid	0.005	84.	2,6-Dichlorobenzamide	0,01	154.	Fonofos	0.005	224.	Pirimiphos methyl	0.005
15.	Benalaxyl	0.005	85.	Dichlorobenzophenone	0.005	155.	Formothion	0.005	225.	Procyimidone	0.005
16.	Benfluralin	0.005	86.	Dichlorvos	0.005	156.	Furalaxyl	0.005	226.	Profenofos	0.005
17.	Benfuracarb	0.005	87.	Diclobutrazol	0.005	157.	Furathiocarb	0.005	227.	Profluralin	0.005
18.	Bifenazate	0.005	88.	Dicloran	0.005	158.	Halfenprox	0.005	228.	Promethryn	0.005
19.	Bifenox	0.005	89.	Dicofol	0.005	159.	α-HCH	0.005	229.	Prometon	0.005
20.	Bifenthrin	0.005	90.	Dieldrin	0.001	160.	β-HCH	0.005	230.	Propachlor	0.005
21.	Biphenyl	0.005	91.	Diethofencarb	0.005	161.	Heptachlor	0.001	231.	Propargite	0.005
22.	Bitertanol	0.005	92.	Difenconazole	0.005	162.	– trans epoxide	0.005	232.	Propazine	0.005
23.	Boscalid	0.005	93.	Dimethachlor	0.005	163.	– cis epoxide	0.01	233.	Propetamphos	0.005
24.	Bromfeninfos	0.005	94.	Dimethomorph	0.005	164.	Heptenophos	0.005	234.	Propam	0.005
25.	Bromocyclen	0.005	95.	Dimethylchlorotal	0.005	165.	HCB	0.001	235.	Propiconazole	0.005
26.	Bromophos ethyl	0.005	96.	Dimoxystrobin	0.005	166.	Hexaconazole	0.005	236.	Propyzamide	0.005
27.	Bromophos methyl	0.005	97.	Diniconazole	0.005	167.	Imazalil	0.005	237.	Prothioconazole	0.005
28.	Bromopropylate	0.005	98.	Dinitramine	0.01	168.	Iprobenfos	0.005	238.	Prothiofos	0.005
29.	Bupirimate	0.005	99.	Dinobuton	0.01	169.	Iprodione	0.005	239.	Pyraclostrobin	0.005
30.	Buprofezin	0.005	100.	Dioxabenofofos	0.005	170.	Isocarbophos	0.005	240.	Pyrazophos	0.005
31.	Butachlor	0.005	101.	Dioxacarb	0.005	171.	Isofenphos ethyl	0.005	241.	Pyrethrins	0,01
32.	Butafenacil	0.005	102.	Diphenylamine	0.005	172.	Isofenphos methyl	0.005	242.	Pyridaben	0.005
33.	Butylate	0.005	103.	Disulfoton	0.001	173.	Jodofenphos	0.005	243.	Pyridalyl	0,01
34.	Captan	0.005	104.	Ditalimfos	0.005	174.	Kresoxim methyl	0.005	244.	Pyrifenoxy	0.005
35.	Carbaryl	0.005	105.	DMST	0.005	175.	Lindan	0.005	245.	Pyrimethanil	0.005
36.	Carboxin	0.005	106.	Dodemorph	0.005	176.	Malathion	0.005	246.	Pyriproxyfen	0.005
37.	Chinomethionat	0.005	107.	Edifenphos	0.005	177.	Mecarbam	0.005	247.	Pyroquilon	0.005
38.	Chlorbenside	0.005	108.	α-Endosulfan	0.005	178.	Mepanipyrim	0.005	248.	Qinoxifen	0.005
39.	Chlorbufam	0.005	109.	β-Endosulfan	0.0025	179.	Mepronil	0.005	249.	Quinalphos	0.005
40.	Chlorfenapyr	0.005	110.	Endosulfan, sulph.	0.005	180.	Metaxyl	0.005	250.	Quintozene	0.005
41.	Chlordane, -cis	0.005	111.	Endrin	0.01	181.	Metazachlor	0.005	251.	Resmethrin-cis	0.005
42.	Chlordane, -oxy	0,01	112.	EPN	0.005	182.	Metconazole	0.005	252.	Silafluofen	0,01
43.	Chlordane, -trans	0,01	113.	Epoxyconazole	0.005	183.	Methacrifos	0.005	253.	Simazine	0,01
44.	Chlorfenson	0.005	114.	Esfenvalerate	0.005	184.	Methidathion	0.005	254.	Spiromesifen	0.005
45.	Chlorfenvinphos	0.005	115.	Etaconazole	0.005	185.	Methoxychlor	0,01	255.	Sulfotep	0.005
46.	Chlormephos	0.005	116.	Ethalfuralin	0.005	186.	Metolachlor	0.005	256.	Tebuconazole	0.005
47.	Chlorobenzilate	0.005	117.	Ethion	0.005	187.	Metribuzin	0.005	257.	Tebufenpyrad	0.005
48.	Chloropropylate	0.005	118.	Ethofumesate	0.005	188.	Mevinphos	0.005	258.	Tecnazene	0.005
49.	Chlorothalonil	0,01	119.	Ethoprophos	0.005	189.	Molinate	0,01	259.	Tefluthrin	0.005
50.	Chlorpropham	0.005	120.	Ethoxyquin	0.005	190.	Myclobutanil	0.005	260.	Terbacil	0.005
51.	Chlorpyrifos	0.005	121.	Etofenprox	0.005	191.	Ntrialin	0.005	261.	Terbufos	0.001
52.	Chlorpyrifos-Me	0.005	122.	Etrimfos	0.005	192.	Nitrapyrin	0.005	262.	Terbutryn	0.005
53.	Chlorthion	0.005	123.	Fenamiphos	0.005	193.	Nitrofen	0,01	263.	Tetrachlorvinphos	0.005
54.	Chlorthiophos	0.005	124.	Fenarimol	0.005	194.	Nitrotal-isopropyl	0.005	264.	Tetraconazole	0.005
55.	Clodinafop-propargyl	0.005	125.	Fenazaquin	0.005	195.	Nuarimol	0.005	265.	Tetradifon	0.005
56.	Clomazone	0.005	126.	Fenbuconazole	0.005	196.	Oxadiazon	0,01	266.	TetrahydroPhthalimide	0.005
57.	Coumaphos	0.005	127.	Fenchlorphos	0.005	197.	Oxadixyl	0.005	267.	Tetramethrin	0.005
58.	Crimidine	0.005	128.	Fenhexamid	0.005	198.	Oxyfluorfen	0.005	268.	Tetrasul	0.005
59.	Cyanofenphos	0.005	129.	Fenitrothion	0.005	199.	Paclobutrazol	0.005	269.	Thiobencarb	0,01
60.	Cyanophos	0.005	130.	Fenoxycarb	0.005	200.	Parathion	0.005	270.	Tolclofos methyl	0.005
61.	Cycloate	0.005	131.	Fenpropathrin	0.005	201.	Parathion-Me	0.005	271.	Tolyfluanid	0,01
62.	Cyfluthrin	0.005	132.	Fenpropidin	0.005	202.	Penconazole	0.005	272.	Triadimefon	0.005
63.	Cyhalothrin, gamma	0.005	133.	Fenpropimorph	0.005	203.	Pencycuron	0.005	273.	Triadimenol	0.005
64.	Cyhalothrin, lambda	0.005	134.	Fenthion	0.005	204.	Pendimethalin	0.005	274.	Tri-Allate	0.005
65.	Cypermethrin	0.005	135.	Fenpyrazamine	0,01	205.	Penflufen	0,01	275.	Triazophos	0.005
66.	Cyprazine	0,01	136.	Fenvalerate	0.005	206.	Pentachloroaniline	0,01	276.	Trifloxystrobin	0.005
67.	Cyproconazole	0.005	137.	Fipronil	0.001	207.	Permethrin	0.005	277.	Triflumizole	0.005
68.	Cyprodinil	0.005	138.	Fipronil, desulfinyl	0.0025	208.	Perthan	0.005	278.	Trifluralin	0.005
69.	DDD-o,p	0.005	139.	Fipronil, sulfone	0.0025	209.	Pethoxamid	0,01	279.	Vinclozolin	0.005
70.	DDD-p,p	0.005	140.	Fluchloralim	0.005	210.	Phenthoate	0.005			



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Table 1c. The list of analyzed pesticides and their limits of quantification (LOQ) – GC-MS/MS – Cereal grain

No.	Pesticide name	LOQ [mg/kg]	No.	Pesticide name	LOQ [mg/kg]	No.	Pesticide name	LOQ [mg/kg]	No.	Pesticide name	LOQ [mg/kg]
1.	Acetochlor	0.005	73.	DDE-p,p	0.005	145.	Fluchloralin	0.005	217.	Phenylphenol	0.005
2.	Acrinathrin	0.005	74.	DDM	0.005	146.	Flucythrinate	0.005	218.	Phorate	0.005
3.	Alachlor	0.005	75.	DDT-o,p	0.005	147.	Fludioxonil	0.005	219.	Phorate sulfone	0,01
4.	Aldrin	0.0025	76.	DDT-p,p	0.005	148.	Flumetralin	0.005	220.	Phorate sulfoxide	0.005
5.	Allethrin	0.005	77.	Deltamethrin	0.005	149.	Flumioxazin	0,01	221.	Phosalone	0.005
6.	Ametryn	0.005	78.	Demeton-S	0.005	150.	Fluorodifon	0.005	222.	Phosamidon	0.005
7.	Aminocarb	0.005	79.	Desmetryn	0.005	151.	Fluotrimazole	0.005	223.	Phosmet	0.005
8.	Anthraquinone	0.005	80.	Dialifos	0.005	152.	Fluquinconazole	0.005	224.	Phthalimide	0.005
9.	Atrazine	0.005	81.	Diazinon	0.005	153.	Flurprimidole	0,01	225.	Picolinafen	0.005
10.	Azaconazole	0.005	82.	Dichlobenil	0.005	154.	Flurtamone	0,01	226.	Picoxystrobin	0.005
11.	Azinphos ethyl	0.005	83.	Dichlofenthion	0.005	155.	Flusilazole	0.005	227.	Picoronyl butoxide	0.005
12.	Azinphos methyl	0,01	84.	Dichlofluanid	0,01	156.	Flutriafol	0.005	228.	Piperophos	0.005
13.	Azoxystrobin	0.005	85.	Dichloroaniline	0.005	157.	Fluralinate	0.005	229.	Pirimicarb	0.005
14.	Beflubutamid	0.005	86.	2,6-Dichlorobenzamide	0,01	158.	Folpet	0.005	230.	Pirimicarb, desmethyl	0.005
15.	Benalaxyl	0.005	87.	Dichlorobenzophenone	0.005	159.	Fonofos	0.005	231.	Pirimiphos ethyl	0,01
16.	Benfluralin	0.005	88.	Dichlorvos	0.005	160.	Formothion	0.005	232.	Pirimiphos methyl	0.005
17.	Benfuracarb	0.005	89.	Diclobutrazol	0.005	161.	Furalaxyl	0.005	233.	Procymidone	0.005
18.	Bifenazate	0.005	90.	Dicloran	0.005	162.	Furathiocarb	0.005	234.	Profenofos	0.005
19.	Bifenox	0.005	91.	Dicofol	0.005	163.	Halfenprox	0.005	235.	Profluralin	0.005
20.	Bifenthrin	0.005	92.	Dieldrin	0.0025	164.	α-HCH	0.005	236.	Promethryn	0.005
21.	Biphenyl	0.005	93.	Diethofencarb	0.005	165.	β-HCH	0.005	237.	Prometon	0.005
22.	Bitertanol	0.005	94.	Difenoconazole	0.005	166.	Heptachlor	0.001	238.	Propachlor	0.005
23.	Boscalid	0.005	95.	Dimethachlor	0.005	167.	– trans epoxide	0.005	239.	Propargite	0.005
24.	Bromfeninfos	0.005	96.	Dimethoate	0.005	168.	– cis epoxide	0.005	240.	Propazine	0.005
25.	Bromocylen	0.005	97.	Dimethomorph	0.005	169.	Heptenophos	0.005	241.	Propetamphos	0.005
26.	Bromophos ethyl	0.005	98.	Dimethylchlorotal	0.005	170.	HCB	0.001	242.	Propham	0.005
27.	Bromophos methyl	0.005	99.	Dimoxystrobin	0.005	171.	Hexaconazole	0.005	243.	Propiconazole	0.005
28.	Bromopropylate	0.005	100.	Diniconazole	0.005	172.	Imazalil	0.005	244.	Propyzamide	0.005
29.	Bupirimate	0.005	101.	Dinitramine	0,01	173.	Iprobenfos	0.005	245.	Prothioconazole	0.005
30.	Buprofezin	0.005	102.	Dinobuton	0,01	174.	Iprodione	0.005	246.	Prothiofos	0.005
31.	Butachlor	0.005	103.	Dioxabeno fos	0.005	175.	Isocarbophos	0.005	247.	Pyraclastrobin	0.005
32.	Butafenacil	0.005	104.	Dioksathion	0.005	176.	Isofenphos ethyl	0.005	248.	Pyrazophos	0.005
33.	Butylate	0.005	105.	Dioxacarb	0.005	177.	Isofenphos methyl	0.005	249.	Pyrethrins	0,1
34.	Captan	0.005	106.	Diphenylamine	0.005	178.	Jodofenphos	0.005	250.	Pyridaben	0.005
35.	Carbaryl	0.005	107.	Disulfoton	0.001	179.	Kresoxim methyl	0.005	251.	Pyridalyl	0.01
36.	Carboxin	0.005	108.	Ditalimfos	0.005	180.	Lindan	0.005	252.	Pyridaphenthion	0.01
37.	Chinomethionat	0.005	109.	DMST	0.005	181.	Malaoxon	0.005	253.	Pyrifenoxy	0.005
38.	Chlorbenside	0.005	110.	Dodemorph	0.005	182.	Malathion	0.005	254.	Pyrimethanil	0.005
39.	Chlorbufam	0.005	111.	Edifenphos	0.005	183.	Mecarbam	0.005	255.	Pyriproxyfen	0.005
40.	Chlordane, -cis	0.005	112.	α-Endosulfan	0.005	184.	Mepanipyrim	0.005	256.	Pyroquilon	0.005
41.	Chlordane, -oxy	0,01	113.	β-Endosulfan	0.0025	185.	Mepronil	0.005	257.	Qinoxyfen	0.005
42.	Chlordane, -trans	0,01	114.	Endosulfan, sulph.	0.005	186.	Metalaxyl	0.005	258.	Quinalphos	0.005
43.	Chlorfenapyr	0.005	115.	Endrin	0,01	187.	Metazachlor	0.005	259.	Quintozene	0.005
44.	Chlorfenson	0.005	116.	Endrin, ketone	0,01	188.	Metconazole	0.005	260.	Resmethrin-cis	0.005
45.	Chlorfenvinphos	0.005	117.	EPN	0.005	189.	Methacrifos	0.005	261.	Silafiufofen	0,01
46.	Chloromephos	0.005	118.	Epoxiconazole	0.005	190.	Methidathion	0.005	262.	Simazine	0.01
47.	Chlorobenzilate	0.005	119.	Esfenvalerate	0.005	191.	Methoxychlor	0.005	263.	Spiromesifen	0.005
48.	Chloropropylate	0.005	120.	Etaconazole	0.005	192.	Metolachlor	0.005	264.	Sulfotep	0.005
49.	Chlorothalonil	0,01	121.	Ethalfuralin	0.005	193.	Metribuzin	0.005	265.	Tebuconazole	0.005
50.	Chlorpropham	0.005	122.	Ethion	0.005	194.	Mevinphos	0.005	266.	Tebufenpyrad	0.005
51.	Chlorpyrifos	0.005	123.	Ethofumesate	0.005	195.	Molinat	0,01	267.	Tecnazene	0.005
52.	Chlorpyrifos-Me	0.005	124.	Ethoprophos	0.005	196.	Myclobutanil	0.005	268.	Tefluthrin	0.005
53.	Chlorthion	0.005	125.	Ethoxyquin	0.005	197.	Ntralin	0.005	269.	Terbacil	0.005
54.	Chlorthiophos	0.005	126.	Etofenprox	0.005	198.	Nitrapyrin	0.005	270.	Terbufos	0.001
55.	Clodinafop-propargyl	0.005	127.	Etrinfos	0.005	199.	Nitrofen	0.005	271.	Terbutryn	0.005
56.	Clomazone	0.005	128.	Fenamiphos	0.005	200.	Nitrotal-isopropyl	0.005	272.	Tetrachlorvinphos	0.005
57.	Coumaphos	0.005	129.	Fenarimol	0.005	201.	Nuarimol	0.005	273.	Tetraconazole	0.005
58.	Crimidine	0.005	130.	Fenazaquin	0.005	202.	Oxadiazon	0,01	274.	Tetradifon	0.005
59.	Cyanazine	0.005	131.	Fenbuconazole	0.005	203.	Oxadixyl	0.005	275.	TetrahydroPhthalimide	0.005
60.	Cyanofenphos	0.005	132.	Fenchlorphos	0.005	204.	Oxyfluorofen	0.005	276.	Tetramethrin	0.005
61.	Cyanophos	0.005	133.	Fenhexamid	0.005	205.	Paclobutrazol	0.005	277.	Tetrasul	0.005
62.	Cycloate	0.005	134.	Fenitrothion	0.005	206.	Parathion	0.005	278.	Thiobencarb	0,01
63.	Cyfluthrin	0.005	135.	Fenoxycarb	0.005	207.	Parathion-Me	0.005	279.	Tolclofos methyl	0.005
64.	Cyhalothrin, gamma	0.005	136.	Fenpropathrin	0.005	208.	Penconazole	0.005	280.	Tolyfluanid	0,01
65.	Cyhalothrin, lambda	0.005	137.	Fenpropidin	0.005	209.	Penycuron	0.005	281.	Triadimefon	0.005
66.	Cypermethrin	0.005	138.	Fenpropimorph	0.005	210.	Pendimethalin	0.005	282.	Triadimenol	0.005
67.	Cyprazine	0,01	139.	Fenpyrazamine	0,01	211.	Penflufen	0,01	283.	Tri-Allate	0.005
68.	Cyproconazole	0.005	140.	Fenthion	0.005	212.	Pentachloroaniline	0,01	284.	Triazophos	0.005
69.	Cyprodinil	0.005	141.	Fenvalerate	0.005	213.	Permethrin	0.005	285.	Trifloxystrobin	0.005
70.	DDD-o,p	0.005	142.	Fipronil	0.005	214.	Perthan	0.005	286.	Triflumizole	0.005
71.	DDD-p,p	0.005	143.	Fipronil, desulfinyl	0.0025	215.	Pethoxamid	0,01	287.	Trifluralin	0.005
72.	DDE-o,p	0.005	144.	Fipronil, sulfone	0.0025	216.	Phenthoate	0.005	288.	Vinclozolin	0.005



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Table 1d. The list of analyzed pesticides and their limits of quantification (LOQ) – GC-MS/MS – Herbs, tea, spices

No.	Pesticide name	LOQ [mg/kg]	No.	Pesticide name	LOQ [mg/kg]	No.	Pesticide name	LOQ [mg/kg]	No.	Pesticide name	LOQ [mg/kg]
1.	Acetochlor	0.005	70.	DDE-p,p	0.005	139.	Fipronil, sulfone	0.0025	208.	Phenylphenol	0.005
2.	Acrinathrin	0.01	71.	DDM	0.005	140.	Fluchloralin	0.005	209.	Phorate	0.005
3.	Aldrin	0.001	72.	DDT-o,p	0.005	141.	Flucythrinate	0.005	210.	Phorate sulfone	0,01
4.	Allethrin	0.001	73.	DDT-p,p	0.005	142.	Fludioxonil	0.005	211.	Phorate sulfoxide	0.005
5.	Ametryn	0,01	74.	Deltamethrin	0,01	143.	Flumetralin	0.005	212.	Phosalone	0.005
6.	Aminocarb	0.005	75.	Demeton-S	0.005	144.	Fluorodifon	0.005	213.	Phosmet	0.005
7.	Antraquinone	0.005	76.	Desmetryn	0.005	145.	Fluquinconazole	0.005	214.	Phthalimide	0.005
8.	Atrazine	0.005	77.	Dialifos	0.005	146.	Flurprimidole	0,01	215.	Picolinafen	0.005
9.	Azaconazole	0.005	78.	Diazinon	0.005	147.	Flurtamone	0,01	216.	Picoxystrobin	0.005
10.	Azinphos ethyl	0.005	79.	Dichlobenil	0.005	148.	Flusilazole	0.005	217.	Piperonyl butoxide	0.005
11.	Azinphos methyl	0,01	80.	Dichlofenthion	0.005	149.	Flutriafol	0.005	218.	Piperophos	0.005
12.	Azoxystrobin	0,01	81.	Dichlofluanid	0.005	150.	Fluvalinate	0.005	219.	Pirimicarb	0.005
13.	Beflubutamid	0,01	82.	Dichloroaniline	0.005	151.	Folpet	0.005	220.	Pirimicarb, desmethyl	0,01
14.	Benalaxyl	0.005	83.	2,6-Dichlorobenzamide	0,01	152.	Formothion	0.005	221.	Pirimiphos ethyl	0,01
15.	Benfluralin	0.005	84.	Dichlorobenzophenone	0.005	153.	Furalaxyl	0.005	222.	Pirimiphos methyl	0.005
16.	Benfuracarb	0.005	85.	Dichlorvos	0.005	154.	Furathiocarb	0.005	223.	Procymidone	0.005
17.	Bifenazate	0,01	86.	Diclobutrazol	0.005	155.	Halfeprox	0.005	224.	Profenofos	0.005
18.	Bifenox	0,01	87.	Dicloran	0.005	156.	α-HCH	0.005	225.	Profluralin	0,01
19.	Bifenthrin	0.005	88.	Dicofol	0.005	157.	β-HCH	0.005	226.	Promethryn	0.005
20.	Biphenyl	0.005	89.	Dieldrin	0.005	158.	Heptachlor	0.0025	227.	Prometon	0.005
21.	Bitertanol	0.005	90.	Diethofencarb	0,01	159.	– trans epoxide	0,01	228.	Propachlor	0.005
22.	Boscalid	0.005	91.	Difenoconazole	0.005	160.	– cis epoxide	0.005	229.	Propargite	0,01
23.	Bromfeninfos	0.005	92.	Dimethachlor	0.005	161.	Heptenophos	0.005	230.	Propazine	0.005
24.	Bromocyclen	0.005	93.	Dimethoate	0,01	162.	HCB	0.001	231.	Propetamphos	0.005
25.	Bromophos ethyl	0.005	94.	Dimethomorph	0,01	163.	Hexaconazole	0,01	232.	Propham	0.005
26.	Bromophos methyl	0.005	95.	Dimethylchlorotal	0.005	164.	Imazalil	0,01	233.	Propiconazole	0.005
27.	Bromopropylate	0.005	96.	Dimoxystrobin	0.005	165.	Iprobenfos	0.005	234.	Propyzamide	0.005
28.	Bupirimate	0.005	97.	Diniconazole	0.005	166.	Iprodione	0.005	235.	Prothioconazole	0.005
29.	Buprofezin	0,01	98.	Dinitramine	0,01	167.	Isocarbophos	0,01	236.	Prothiofos	0.005
30.	Butachlor	0.005	99.	Dinobuton	0,01	168.	Isofenphos ethyl	0.005	237.	Pyraclostrobin	0.005
31.	Butafenacil	0,01	100.	Dioxabenofo	0.005	169.	Isofenphos methyl	0.005	238.	Pyrazophos	0.005
32.	Butylate	0.005	101.	Diphenylamine	0.005	170.	Jodofenphos	0.005	239.	Pyrethrins	0,1
33.	Captan	0.005	102.	Disulfoton	0.005	171.	Kresoxim methyl	0.005	240.	Pyridaben	0,01
34.	Carbaryl	0.005	103.	Ditalimfos	0.005	172.	Lindan	0.005	241.	Pyridalyl	0,01
35.	Carboxin	0,01	104.	DMST	0.005	173.	Malathion	0.005	242.	Pyridaphenthion	0,01
36.	Chinomethionat	0.005	105.	Dodemorph	0.005	174.	Mecarbam	0,01	243.	Pyrifeno	0,01
37.	Chlorbenside	0.005	106.	Edifenphos	0,01	175.	Mepanipyrim	0.005	244.	Pyrimethanil	0.005
38.	Chlorbufam	0,01	107.	α-Endosulfan	0,01	176.	Mepronil	0,01	245.	Pyriproxyfen	0.005
39.	Chlordane, -cis	0.005	108.	β-Endosulfan	0.005	177.	Metalaxyl	0.005	246.	Qinoxifen	0.005
40.	Chlordane, -trans	0,01	109.	Endosulfan, sulfate	0.005	178.	Metazachlor	0.005	247.	Quinalphos	0.005
41.	Chlorfenapyr	0.005	110.	Endrin	0,01	179.	Metconazole	0.005	248.	Quintozene	0.005
42.	Chlorfenson	0.005	111.	Endrin, ketone	0,01	180.	Methacrifos	0.005	249.	Silafluofen	0,01
43.	Chlorfenvinphos	0.005	112.	EPN	0.005	181.	Methidathion	0.005	250.	Simazine	0,01
44.	Chlormephos	0.005	113.	Epoxiconazole	0.005	182.	Methoxychlor	0.005	251.	Spiromesifen	0.005
45.	Chlorobenzilate	0.005	114.	Esfenvalerate	0.005	183.	Metolachlor	0.005	252.	Sulfotep	0.005
46.	Chloropropylate	0.005	115.	Etaconazole	0.005	184.	Metribuzin	0,01	253.	Tebuconazole	0.005
47.	Chlorothalonil	0,01	116.	Ethalfuralin	0.005	185.	Mevinphos	0.005	254.	Tebufenpyrad	0.005
48.	Chlorpropham	0,01	117.	Ethion	0,01	186.	Molinate	0,01	255.	Tecnazene	0.005
49.	Chlorpyrifos	0.005	118.	Ethofumesate	0.005	187.	Myclobutanil	0.005	256.	Tefluthrin	0.005
50.	Chlorpyrifos-Me	0.005	119.	Ethoprophos	0.005	188.	Ntralin	0.005	257.	Terbacil	0,01
51.	Chlorthion	0.005	120.	Ethoxyquin	0.005	189.	Nitrapyrin	0.005	258.	Terbufos	0.001
52.	Chlorthiophos	0.005	121.	Etofenprox	0.005	190.	Nitrofen	0.005	259.	Terbutryn	0.005
53.	Clodinafop-propargyl	0.005	122.	Etrinfos	0,01	191.	Nitrotal-isopropyl	0.005	260.	Tetrachlorvinphos	0.005
54.	Clomazone	0.005	123.	Fenamiphos	0.005	192.	Nuarimol	0.005	261.	Tetraconazole	0.005
55.	Coumaphos	0.005	124.	Fenarimol	0.005	193.	Oxadiazon	0,01	262.	Tetradifon	0,01
56.	Crimidine	0.005	125.	Fenazaquin	0.005	194.	Oxadixyl	0.005	263.	TetrahydroPhthalimide	0.005
57.	Cyanofenphos	0.005	126.	Fenbuconazole	0.005	195.	Oxyfluorofen	0.005	264.	Tetramethrin	0.005
58.	Cyanophos	0.005	127.	Fenchlorphos	0.005	196.	Paclobutrazol	0.005	265.	Tetrasul	0.005
59.	Cycloate	0.005	128.	Fenhexamid	0.005	197.	Parathion	0.005	266.	Thiobencarb	0,01
60.	Cyfluthrin	0.005	129.	Fenitrothion	0.005	198.	Parathion-Me	0.005	267.	Thioclolo fos methyl	0.005
61.	Cyhalothrin, gamma	0.005	130.	Fenoxycarb	0.005	199.	Penconazole	0.005	268.	Tolyfluanid	0.005
62.	Cyhalothrin, lambda	0.005	131.	Fenpropathrin	0.005	200.	Pencycuro	0.005	269.	Triadimefon	0.005
63.	Cypermethrin	0.005	132.	Fenpropidin	0.005	201.	Pendimethalin	0,01	270.	Triadimenol	0.005
64.	Cyprazine	0,01	133.	Fenpropimorph	0.005	202.	Penflufen	0,01	271.	Tri-Allate	0.005
65.	Cyproconazole	0.005	134.	Fenpyrazamine	0,01	203.	Pentachloroaniline	0,01	272.	Triazophos	0.005
66.	Cyprodinil	0,01	135.	Fenthion	0.005	204.	Permethrin	0.005	273.	Trifloxystrobin	0,01
67.	DDD-o,p	0.005	136.	Fenvalerate	0.005	205.	Perthan	0.005	274.	Triflumizole	0,01
68.	DDD-p,p	0.005	137.	Fipronil	0.0025	206.	Pethoxamid	0,01	275.	Trifluralin	0.005
69.	DDE-o,p	0.005	138.	Fipronil, desulfinyl	0.0025	207.	Phenthoate	0.005	276.	Vinclozolin	0.005



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Table 1e. The list of analyzed pesticides and their limits of quantification (LOQ) – GC-MS/MS – eggs

No.	Pesticide name	LOQ [mg/kg]	No.	Pesticide name	LOQ [mg/kg]	No.	Pesticide name	LOQ [mg/kg]	No.	Pesticide name	LOQ [mg/kg]
1.	Acetochlor	0.005	70.	DDD-o,p	0.005	139.	Fipronil	0.0025	208.	Phenylphenol	0.005
2.	Acrinathrin	0.005	71.	DDD-p,p	0.005	140.	Fipronil, desulfinyl	0.0025	209.	Phorate	0.005
3.	Alachlor	0.005	72.	DDE-o,p	0.005	141.	Fipronil, sulfone	0.0025	210.	Phorate sulfone	0,01
4.	Aldrin	0.001	73.	DDE-p,p	0.005	142.	Fluchloralin	0.005	211.	Phorate sulfoxide	0.005
5.	Allethrin	0.005	74.	DDM	0.005	143.	Flucythrinate	0.005	212.	Phosalone	0.005
6.	Ametryn	0.005	75.	DDT-o,p	0.005	144.	Fludioxonil	0.005	213.	Phosamidon	0.005
7.	Aminocarb	0.005	76.	DDT-p,p	0.005	145.	Flumetralin	0.005	214.	Phosmet	0.005
8.	Anthraquinone	0.005	77.	Deltamethrin	0.005	146.	Fluorodifon	0.005	215.	Phthalimide	0.005
9.	Atrazine	0.005	78.	Demeton-S	0.005	147.	Fluotrimazole	0.005	216.	Picolinafen	0.005
10.	Azaconazole	0.005	79.	Desmetyryn	0.005	148.	Fluquinconazole	0.005	217.	Picoxystrobin	0.005
11.	Azinphos ethyl	0.005	80.	Dialifos	0.005	149.	Flurtamone	0,01	218.	Piperonyl butoxide	0.005
12.	Azinphos methyl	0.005	81.	Diazinon	0.005	150.	Flusilazole	0.005	219.	Piperophos	0.005
13.	Azoxystrobin	0.005	82.	Dichlobenil	0.005	151.	Flutriafol	0.005	220.	Pirimicarb	0.005
14.	Beflubutamid	0.005	83.	Dichlofenthion	0.005	152.	Fluvalinate	0.005	221.	Pirimicarb, desmethyl	0.005
15.	Benalaxyl	0.005	84.	Dichloroaniline	0.005	153.	Folpet	0.005	222.	Pirimiphos methyl	0.005
16.	Benfluralin	0.005	85.	2,6-Dichlorobenzamide	0,01	154.	Fonofos	0.005	223.	Procymidone	0.005
17.	Benfuracarb	0.005	86.	Dichlorobenzophenone	0.005	155.	Formothion	0.005	224.	Profenofos	0.005
18.	Bifenazate	0.005	87.	Dichlorvos	0.005	156.	Furalaxyl	0.005	225.	Profluralin	0.005
19.	Bifeno _x	0.005	88.	Diclobutrazol	0.005	157.	Furathiocarb	0.005	226.	Promethryn	0.005
20.	Bifenthrin	0.005	89.	Dicloran	0.005	158.	Halfenprox	0.005	227.	Prometon	0.005
21.	Biphenyl	0.005	90.	Dicofof	0.005	159.	α-HCH	0.005	228.	Propachlor	0.005
22.	Bitertanol	0.005	91.	Dieldrin	0.005	160.	β-HCH	0.005	229.	Propargite	0.005
23.	Boscalid	0.005	92.	Diethofencarb	0.005	161.	Heptachlor	0.001	230.	Propazine	0.005
24.	Bromfenvinfos	0.005	93.	Difenoconazole	0.005	162.	– trans epoxide	0.005	231.	Propetamphos	0.005
25.	Bromocylen	0.005	94.	Dimethachlor	0.005	163.	– cis epoxide	0.0025	232.	Propham	0.005
26.	Bromophos ethyl	0.005	95.	Dimethoate	0.005	164.	Heptenophos	0.005	233.	Propiconazole	0.005
27.	Bromophos methyl	0.005	96.	Dimethomorph	0.005	165.	HCB	0.001	234.	Propyzamide	0.005
28.	Bromopropylate	0.005	97.	Dimethylchlorotal	0.005	166.	Hexaconazole	0.005	235.	Prothioconazole	0.005
29.	Bupirimate	0.005	98.	Dimoxystrobin	0.005	167.	Imazalil	0.005	236.	Prothiofos	0.005
30.	Buprofezin	0.005	99.	Diniconazole	0.005	168.	Iprobenfos	0.005	237.	Pyraclostrobin	0.005
31.	Butachlor	0.005	100.	Dinitramine	0,01	169.	Iprodione	0.005	238.	Pyrazophos	0.005
32.	Butafenacil	0.005	101.	Dinobuton	0,01	170.	Isocarbophos	0.005	239.	Pyridaben	0.005
33.	Butylate	0.005	102.	Dioxabenofofos	0.005	171.	Isofenphos ethyl	0.005	240.	Pyrifeno _x	0.005
34.	Captafol	0.005	103.	Dioxacarb	0.005	172.	Isofenphos methyl	0.005	241.	Pyrimethanil	0.005
35.	Captan	0.005	104.	Diphenylamine	0.005	173.	Jodofenphos	0.005	242.	Pyriproxyfen	0.005
36.	Carbaryl	0.005	105.	Disulfoton	0.001	174.	Kresoxim methyl	0.005	243.	Pyroquilon	0.005
37.	Carboxin	0.005	106.	Ditalimfos	0.005	175.	Lindan	0.005	244.	Qinoxyfen	0.005
38.	Chinomethionat	0.005	107.	DMST	0.005	176.	Malaoxon	0.005	245.	Quinalphos	0.005
39.	Chlorbenside	0.005	108.	Dodemorph	0.005	177.	Malathion	0.005	246.	Quintozene	0.005
40.	Chlorbufam	0.005	109.	Edifenphos	0.005	178.	Mecarbam	0.005	247.	Resmethrin-cis	0.005
41.	Chlordane, -cis	0.005	110.	α-Endosulfan	0.005	179.	Mepanipyrim	0.005	248.	Simazine	0,01
42.	Chlordane, -trans	0,01	111.	β-Endosulfan	0.0025	180.	Mepronil	0.005	249.	Spiromesifen	0.005
43.	Chlorfenapyr	0.005	112.	Endosulfan, sulph.	0.005	181.	Metalaxyl	0.005	250.	Sulfotep	0.005
44.	Chlorfenson	0.005	113.	Endrin	0.005	182.	Metazachlor	0.005	251.	Tebuconazole	0.005
45.	Chlorfenvinphos	0.005	114.	EPN	0.005	183.	Metconazole	0.005	252.	Tebufenpyrad	0.005
46.	Chlormephos	0.005	115.	Epoxiconazole	0.005	184.	Methacrisfos	0.005	253.	Tecnazene	0.005
47.	Chlorobenzilate	0.005	116.	Esfenvalerate	0.005	185.	Methidathion	0.005	254.	Tefluthrin	0.005
48.	Chloropropylate	0.005	117.	Etaconazole	0.005	186.	Methoxychlor	0.005	255.	Terbacil	0.005
49.	Chlorothalonil	0.005	118.	Ethalfuralin	0.005	187.	Metolachlor	0.005	256.	Terbufos	0.001
50.	Chlorpropham	0.005	119.	Ethion	0.005	188.	Metribuzin	0.005	257.	Terbutryn	0.005
51.	Chlorpyrifos	0.005	120.	Ethofumesate	0.005	189.	Mevinphos	0.005	258.	Tetrachlorvinphos	0.005
52.	Chlorpyrifos-Me	0.005	121.	Ethoprophos	0.005	190.	Myclobutanil	0.005	259.	Tetraconazole	0.005
53.	Chlorthion	0.005	122.	Ethoxyquin	0.005	191.	Ntralin	0.005	260.	Tetradifon	0.005
54.	Chlorthiophos	0.005	123.	Etiofenprox	0.005	192.	Nitrapyrin	0.005	261.	TetrahydroPhthalimide	0.005
55.	Clodinafop-propargyl	0.005	124.	Etrinfos	0.005	193.	Nitrofen	0.005	262.	Tetramethrin	0.005
56.	Clomazone	0.005	125.	Fenamiphos	0.005	194.	Nitrotal-isopropyl	0.005	263.	Thiobencarb	0,01
57.	Coumaphos	0.005	126.	Fenarimol	0.005	195.	Nuarimol	0.005	264.	Tolclofos methyl	0.005
58.	Crimidine	0.005	127.	Fenazaquin	0.005	196.	Oxadixyl	0.005	265.	Triadimefon	0.005
59.	Cyanazine	0.005	128.	Fenbuconazole	0.005	197.	Oxyfluorfen	0.005	266.	Triadimenol	0.005
60.	Cyanofenphos	0.005	129.	Fenchlorphos	0.005	198.	Paclobutrazol	0.005	267.	Tri-Allate	0.005
61.	Cyanophos	0.005	130.	Fenhexamid	0.005	199.	Parathion	0.005	268.	Triazophos	0.005
62.	Cycloate	0.005	131.	Fenitrothion	0.005	200.	Parathion-Me	0.005	269.	Trifloxystrobin	0.005
63.	Cyfluthrin	0.005	132.	Fenoxycarb	0.005	201.	Penconazole	0.005	270.	Triflumizole	0.005
64.	Cyhalothrin, gamma	0.005	133.	Fenpropathrin	0.005	202.	Pencycuron	0.005	271.	Trifluralin	0.005
65.	Cyhalothrin, lambda	0.005	134.	Fenpropidin	0.005	203.	Pendimethalin	0.005	272.	Vinclozolin	0.005
66.	Cypermethrin	0.005	135.	Fenpropimorph	0.005	204.	Pentachloroaniline	0,01			
67.	Cyprazine	0,01	136.	Fenpyrazamine	0,01	205.	Permethrin	0.005			
68.	Cyproconazole	0.005	137.	Fenthion	0.005	206.	Perthan	0.005			
69.	Cyprodinil	0.005	138.	Fenvalerate	0.005	207.	Phenthoate	0.005			



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Table 2a. The list of analyzed pesticides and their limits of quantification (LOQ) – LC-MS/MS – fruits & vegs

No.	Pesticide name	LOQ [mg/kg]	No.	Pesticide name	LOQ [mg/kg]	No.	Pesticide name	LOQ [mg/kg]	No.	Pesticide name	LOQ [mg/kg]
1.	Abamectin	0.01	58.	Disulfoton. sulfon	0.005	115.	Isoproturon	0.005	173.	Propoxycarbazone	0.01
2.	Acephate	0.01	59.	Disulfoton. sulfoxide	0.005	116.	Isoprazam	0.005	174.	Proquinazid	0.005
3.	Acetamiprid	0.005	60.	Diuron	0.01	117.	Isoxaben	0.005	175.	Prosulfocarb	0.005
4.	Acronifen	0.01	61.	DMF Amitraz	0.005	118.	Isoxaflutol	0.005	176.	Prosulfuron	0.005
5.	Aldicarb	0.01	62.	DMPP Amitraz	0.005	119.	Isoxathion	0.005	177.	Pymetrozine	0.02
6.	- sulfon	0.01	63.	Emamectin	0.01	120.	Lenacil	0.01	178.	Pyridaben	0.005
7.	- sulfoxide	0.01	64.	Ethametsulfuron methyl	0.005	121.	Linuron	0.005	179.	Pyridafol	0.01
8.	Amectradin	0.005	65.	Ethiofencarb	0.01	122.	Lufenuron	0.01	180.	Pyrifeno	0.01
9.	Amidosulfuron	0.005	66.	Ethirimol	0.01	123.	Malaoxon	0.005	181.	Pyriproxyfen	0.01
10.	Amisulbrom	0.01	67.	Etoazole	0.005	124.	Malathion	0.01	182.	Pyroquilon	0.01
11.	Azadirachtin	0.01	68.	Famoxadone	0.01	125.	Mandipropamid	0.005	183.	Pyroxulam	0.005
12.	Azinproline	0.01	69.	Fenamidone	0.005	126.	Metaflumizone	0.01	184.	Quinclorac	0.01
13.	Azoxystrobin	0.005	70.	Fenamiphos	0.005	127.	Metaxyl	0.005	185.	Quinclamine	0.01
14.	Beflubutamid	0.01	71.	- sulfon	0.005	128.	Metamitron	0.01	186.	Quizalofop ethyl	0.005
15.	Bendiocarb	0.01	72.	- sulfoxide	0.005	129.	Methamidophos	0.01	187.	Rimsulfuron	0.01
16.	Benthivacarb isopropyl	0.01	73.	Fenbuconazole	0.005	130.	Methiocarb	0.005	188.	Rotenone	0.01
17.	Benzovindifluopyr	0.005	74.	Fenfuram	0.01	131.	- sulfon	0.01	189.	Saflufenacil	0.005
18.	Bixafen	0.01	75.	Fenhexamid	0.01	132.	- sulfoxide	0.005	190.	Silthiofam	0.005
19.	Boscalid	0.005	76.	Fenobucarb	0.01	133.	Methomyl	0.01	191.	Spinetoram	0.01
20.	Bromacil	0.01	77.	Fenoxaprop-P-ethyl	0.005	134.	Methoprotetryne	0.01	192.	Spinosad	0.005
21.	Bromuconazole	0.01	78.	Fenpropidin	0.01	135.	Methoxyfenozide	0.005	193.	Spirodiclofen	0.005
22.	Cadusafos	0.0025	79.	Fenpropimorph	0.005	136.	Metholachlor-S	0.005	194.	Spirotetramat	0.005
23.	Carbaryl	0.005	80.	Fenpyroximate	0.005	137.	Metobromuron	0.01	195.	- Enol	0.005
24.	Carbendazim	0.005	81.	Fensulfothion	0.0025	138.	Metosulam	0.01	196.	- Ketohydroxy	0.005
25.	Carbetamid	0.01	82.	- sulfon	0.0025	139.	Metoxuron	0.01	197.	- Enol-glucoside	0.005
26.	Carbofuran	0.005	83.	- oxon	0.0025	140.	Metrafenone	0.005	198.	- Monohydroxy	0.005
27.	Carbofuran. 3-hydroxy	0.005	84.	- oxon-sulfon	0.0025	141.	Metsulfuron methyl	0.005	199.	Spiroxamine	0.005
28.	Carbofuran. 3-keto	0.01	85.	Fenthion	0.01	142.	Monocrotophos	0.005	200.	Sulfometuron methyl	0.005
29.	Carfentrazone ethyl	0.01	86.	- sulfoxide	0.01	143.	Monuron	0.01	201.	Sulfosulfuron	0.01
30.	Chlorantraniliprole	0.005	87.	Flazasulfuron	0.005	144.	Napropamide	0.005	202.	Sulfoxalor	0.01
31.	Chloridazon	0.005	88.	Flonicamid	0.01	145.	Nicosulfuron	0.005	203.	Tebuconazole	0.01
32.	Chlorotoluron	0.005	89.	Florasulam	0.01	146.	Nitenpyram	0.01	204.	Tebufenozide	0.005
33.	Chlorpyrifos	0.01	90.	Flufenacet	0.005	147.	Novaluron	0.005	205.	Tebufenpyrad	0.005
34.	Chlorsulfuron	0.005	91.	Flufenoxuron	0.005	148.	Omethoate	0.0025	206.	Teflubenzuron	0.01
35.	Chromafenozide	0.01	92.	Fluopicolide	0.005	149.	Oxadixyl	0.005	207.	Tepraloxymid	0.01
36.	Clofentezine	0.005	93.	Fluopyram	0.005	150.	Oxamyl	0.005	208.	Terbufos	0.01
37.	Clothianidin	0.01	94.	Flupyradifurone	0.01	151.	Oxycarboxin	0.01	209.	- sulfon	0.01
38.	Cyantraniliprole	0.01	95.	Fluxapyroxad	0.01	152.	Paraoxon methyl	0.005	210.	- sulfoxide	0.005
39.	Cyazofamid	0.005	96.	Fluoxastrobin	0.005	153.	Parathion	0.01	211.	Terbutylazine	0.005
40.	Cycloxydim	0.01	97.	Flurochloridone	0.01	154.	Parathion methyl	0.01	212.	Thiabendazole	0.005
41.	Cyflufenamid	0.005	98.	Flutolanil	0.005	155.	Pencycuron	0.005	213.	Thiacloprid	0.005
42.	Cyflumetofen	0.005	99.	Flutriafol	0.01	156.	Pendimethalin	0.005	214.	Thiamethoxam	0.005
43.	Cymiazol	0.01	100.	Foramsulfuron	0.005	157.	Penflufen	0.01	215.	Thiencarbazone methyl	0.005
44.	Cymoxanil	0.005	101.	Formetanate	0.01	158.	Penthiopyrad	0.01	216.	Thifensulfuron methyl	0.01
45.	Cyproconazole	0.01	102.	Fosthiazate	0.01	159.	Pethoxamid	0.01	217.	Thiodicarb	0.005
46.	DEET	0.01	103.	Fuberidazol	0.005	160.	Phenmedipham	0.01	218.	Thiometon	0.01
47.	Demeton S methyl	0.0025	104.	Hexaflumuron	0.005	161.	Phenthoate	0.005	219.	Thiophanate methyl	0.005
48.	- sulfon	0.0025	105.	Hexythiazox	0.005	162.	Phosmet	0.005	220.	Tolfenpyrad	0.01
49.	- sulfoxide	0.0025	106.	Imazalil	0.01	163.	Phosmet oxon	0.01	221.	Topramezone	0.01
50.	Desmedipham	0.01	107.	Imazapic	0.01	164.	Phoxim	0.01	222.	Tralkoxydim	0.01
51.	Dicofthophos	0.01	108.	Imidacloprid	0.01	165.	Pinoxaden	0.005	223.	Trichlorfon	0.01
52.	Diethofencarb	0.005	109.	Indoxacarb	0.005	166.	Piperonyl butoxide	0.01	224.	Tricyclazole	0.01
53.	Diflubenzuron	0.005	110.	Iodosulfuron methyl	0.01	167.	Prochloraz	0.005	225.	Tridemorph	0.01
54.	Diflufenican	0.01	111.	Ipcnazole	0.01	168.	- BTS 44595	0.01	226.	Trifluralin	0.01
55.	Dimethenamid	0.005	112.	Iprovalicarb	0.005	169.	- BTS 44596	0.01	227.	Trisulfuron methyl	0.01
56.	Dimethoate	0.005	113.	Isoprocarb	0.01	170.	Propamocarb	0.005	228.	Triticonazol	0.01
57.	Dinotefuran	0.01	114.	Isoprothiolane	0.01	171.	Propaquizafop	0.005	229.	Tritosulfuron	0.01
						172.	Propoxur	0.01	230.	Zoxamide	0.005



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Table 2b. The list of analyzed pesticides and their limits of quantification (LOQ) – LC-MS/MS – rape, soybean, oily

Pesticide name	LOQ [mg/kg]	No.	Pesticide name	LOQ [mg/kg]	No.	Pesticide name	LOQ [mg/kg]	No.	Pesticide name	LOQ [mg/kg]
1. Abamectin	0.01	57.	Dinotefuran	0.01	113.	Isoprothiolane	0.01	169.	Propoxur	0.01
2. Acephate	0.01	58.	Disulfoton. sulfon	0.01	114.	Isoproturon	0.01	170.	Propoxycarbazone	0.01
3. Acetamiprid	0.01	59.	Disulfoton. sulfoxide	0.01	115.	Isopyrazam	0.01	171.	Proquinazid	0.01
4. Aclonifen	0.01	60.	Diuron	0.01	116.	Isoxaben	0.01	172.	Prosulfocarb	0.01
5. Aldicarb	0.01	61.	DMF Amitraz	0.01	117.	Isoxaflutol	0.01	173.	Prosulfuron	0.01
6. - sulfon	0.01	62.	DMFP Amitraz	0.01	118.	Isoxathion	0.01	174.	Pymetrozine	0.01
7. - sulfoxide	0.01	63.	Emamectin	0.01	119.	Lenacil	0.01	175.	Pyridaben	0.01
8. Ametoctradin	0.01	64.	Ethametsulfuron methyl	0.01	120.	Linuron	0.01	176.	Pyridafol	0.01
9. Amidosulfuron	0.01	65.	Ethiofencarb	0.01	121.	Lufenuron	0.01	177.	Pyrifenoxy	0.01
10. Amisulbrom	0.01	66.	Ethirimol	0.01	122.	Malaoxon	0.01	178.	Pyriproxyfen	0.01
11. Azadirachtin	0.01	67.	Etoxazole	0.01	123.	Malathion	0.01	179.	Pyroquilon	0.01
12. Aziprotine	0.01	68.	Famoxadone	0.01	124.	Mandipropamid	0.01	180.	Pyroxulam	0.01
13. Azoxystrobin	0.01	69.	Fenamidone	0.01	125.	Metaflumizone	0.01	181.	Quinoclamine	0.1
14. Beflubutamid	0.01	70.	Fenamiphos	0.01	126.	Metalaxyl	0.01	182.	Quizalofop ethyl	0.01
15. Bendiocarb	0.01	71.	- sulfon	0.01	127.	Metamitron	0.01	183.	Rimsulfuron	0.01
16. Benthivallcarb isopropyl	0.01	72.	- sulfoxide	0.01	128.	Methamidophos	0.01	184.	Rotenone	0.01
17. Benzovindifluopyr	0.01	73.	Fenbuconazole	0.01	129.	Methiocarb	0.01	185.	Saflufenacil	0.01
18. Bixafen	0.01	74.	Fenfuram	0.01	130.	- sulfon	0.01	186.	Silthiofam	0.01
19. Boscalid	0.01	75.	Fenhexamid	0.01	131.	- sulfoxide	0.01	187.	Spinetoram	0.01
20. Bromacil	0.01	76.	Fenobucarb	0.01	132.	Methomyl	0.01	188.	Spinosad	0.01
21. Bromuconazole	0.01	77.	Fenoxaprop-P-ethyl	0.01	133.	Methoprotryne	0.01	189.	Spirodiclofen	0.01
22. Cadusafos	0.01	78.	Fenpropidin	0.01	134.	Methoxyfenozide	0.01	190.	Spirotetramat	0.01
23. Carbaryl	0.01	79.	Fenpropimorph	0.01	135.	Metholachlor-S	0.01	191.	- Enol	0.01
24. Carbendazim	0.01	80.	Fenpyroximate	0.01	136.	Metobromuron	0.01	192.	- Ketohydroxy	0.01
25. Carbetamid	0.01	81.	Fensulfotthion	0.01	137.	Metosulam	0.01	193.	- Enol-glucoside	0.01
26. Carbofuran	0.01	82.	- sulfon	0.01	138.	Metoxuron	0.01	194.	- Monohydroxy	0.01
27. Carbofuran. 3-hydroxy	0.01	83.	- oxon	0.01	139.	Metrafenone	0.01	195.	Spiroxamine	0.01
28. Carbofuran. 3-keto	0.01	84.	- oxon-sulfon	0.01	140.	Metsulfuron methyl	0.01	196.	Sulfometuron methyl	0.005
29. Carfentrazone ethyl	0.01	85.	Fenthion	0.01	141.	Monocrotophos	0.01	197.	Sulfosulfuron	0.01
30. Chlorantraniliprole	0.01	86.	- sulfoxide	0.01	142.	Monuron	0.01	198.	Sulfoxaflor	0.01
31. Chloridazon	0.01	87.	Flonicamid	0.01	143.	Napropamide	0.01	199.	Tebuconazole	0.01
32. Chlorotoluron	0.01	88.	Florasulam	0.01	144.	Nicosulfuron	0.01	200.	Tebufenozide	0.01
33. Chlorpyrifos	0.01	89.	Flufenacet	0.01	145.	Nitenpyram	0.01	201.	Tebufenpyrad	0.01
34. Chlorsulfuron	2	90.	Flufenoxuron	0.01	146.	Omethoate	0.01	202.	Teflubenzuron	0.01
35. Chromafenozide	0.01	91.	Fluopicolide	0.01	147.	Oxadixyl	0.01	203.	Tepraloxymid	0.01
36. Clofentazine	0.01	92.	Fluopyram	0.01	148.	Oxamyl	0.01	204.	Terbufos	0.01
37. Clothianidin	0.01	93.	Flupyradifurone	0.01	149.	Oxycarboxin	0.01	205.	- sulfon	0.01
38. Cyantraniliprole	0.01	94.	Fluxapyroxad	0.01	150.	Paraoxon methyl	0.01	206.	- sulfoxide	0.01
39. Cyazofamid	0.01	95.	Fluoxastrobin	0.01	151.	Parathion	0.01	207.	Terbutylazine	0.01
40. Cycloxydim	0.01	96.	Flurochloridone	0.01	152.	Parathion methyl	0.01	208.	Thiabendazole	0.01
41. Cyflufenamid	0.01	97.	Flutolanil	0.01	153.	Pencycuron	0.01	209.	Thiacloprid	0.01
42. Cyflumetofen	0.01	98.	Flutriafol	0.01	154.	Pendimethalin	0.01	210.	Thiamethoxam	0.01
43. Cymiazol	0.01	99.	Foramsulfuron	0.01	155.	Penthiopyrad	0.01	211.	Thiencarbazone methyl	0.01
44. Cymoxanil	0.01	100.	Formetanate	0.01	156.	Pethoxamid	0.01	212.	Thifensulfuron methyl	0.01
45. Cyproconazole	0.01	101.	Fosthiazate	0.01	157.	Phenmedipham	0.01	213.	Thiometon	0.01
46. DEET	0.01	102.	Fuberidazol	0.01	158.	Phenthoate	0.01	214.	Thiophanate methyl	0.01
47. Demeton S methyl	0.01	103.	Hexaflumuron	0.01	159.	Phosmet	0.01	215.	Tolfenpyrad	0.01
48. - sulfon	0.01	104.	Hexythiazox	0.01	160.	Phosmet oxon	0.01	216.	Topramezone	0.01
49. - sulfoxide	0.01	105.	Imazalil	0.01	161.	Phoxim	0.01	217.	Tralkoxydim	0.01
50. Desmedipham	0.01	106.	Imazapic	0.01	162.	Pinoxaden	0.01	218.	Trichlorfon	0.01
51. Dicrotophos	0.01	107.	Imidacloprid	0.01	163.	Piperonyl butoxide	0.01	219.	Tricyclazole	0.01
52. Diethofencarb	0.01	108.	Indoxacarb	0.01	164.	Prochloraz	0.01	220.	Tridemorph	0.01
53. Diflubenuron	0.01	109.	Iodosulfuron methyl	0.01	165.	- BTS 44595	0.01	221.	Triflumuron	0.01
54. Diflufenican	0.01	110.	Ipconazole	0.01	166.	- BTS 44596	0.01	222.	Trisulfuron methyl	0.01
55. Dimethenamid	0.01	111.	Iprovalicarb	0.01	167.	Propamocarb	0.01	223.	Triticonazol	0.01
56. Dimethoate	0.01	112.	Isoprocab	0.01	168.	Propaquizafop	0.01	224.	Tritosulfurone	0.01
								225.	Zoxamide	0.01



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Table 2c. The list of analyzed pesticides and their limits of quantification (LOQ) – LC-MS/MS – Cereals, grain

No.	Pesticide name	LOQ [mg/kg]	No.	Pesticide name	LOQ [mg/kg]	No.	Pesticide name	LOQ [mg/kg]	No.	Pesticide name	LOQ [mg/kg]
1.	Abamectin	0.005	57.	Dinotefuran	0.01	113.	Isoprocacarb	0.005	170.	Propaquizafop	0.005
2.	Acephate	0.005	58.	Disulfoton. sulfon	0.005	114.	Isoprothiolane	0.005	171.	Propoxur	0.005
3.	Acetamiprid	0.005	59.	Disulfoton. sulfoxide	0.005	115.	Isoproturon	0.005	172.	Propoxycarbazon	0.005
4.	Acionifen	0.005	60.	Diuron	0.005	116.	Isopyrazam	0.005	173.	Proquinazid	0.005
5.	Aldicarb	0.005	61.	DMF Amitraz	0.005	117.	Isoxaben	0.01	174.	Prosulfocarb	0.005
6.	- sulfon	0.005	62.	DMPF Amitraz	0.005	118.	Isoxaflutol	0.01	175.	Prosulfuron	0.01
7.	- sulfoxide	0.005	63.	Emamectin	0.005	119.	Isoxathion	0.01	176.	Pymetrozine	0.01
8.	Ametoctradin	0.005	64.	Ethametsulfuron methyl	0.01	120.	Lenacil	0.005	177.	Pyridaben	0.005
9.	Amidosulfuron	0.005	65.	Ethiofencarb	0.005	121.	Linuron	0.005	178.	Pyrifeno	0.005
10.	Amisulbrom	0.005	66.	Ethirimol	0.005	122.	Lufenuron	0.005	179.	Pyriproxyfen	0.005
11.	Azadirachtin	0.01	67.	Etoazole	0.005	123.	Malaoxon	0.005	180.	Pyroquilon	0.005
12.	Aziprotine	0.005	68.	Famoxadone	0.005	124.	Malathion	0.005	181.	Pyroxulam	0.01
13.	Azoxystrobin	0.005	69.	Fenamidone	0.005	125.	Mandipropamid	0.005	182.	Quinoclamine	0.005
14.	Beflubutamid	0.005	70.	Fenamiphos	0.005	126.	Metaflumizone	0.01	183.	Quizalofop ethyl	0.005
15.	Bendiocarb	0.005	71.	- sulfon	0.005	127.	Metaxyl	0.005	184.	Rotenone	0.01
16.	Benthivacarb isopropyl	0.005	72.	- sulfoxide	0.005	128.	Metamitron	0.01	185.	Saflufenacil	0.01
17.	Benzovindifluopyr	0.01	73.	Fenbuconazole	0.005	129.	Methamidophos	0.005	186.	Silthiofam	0.005
18.	Bixafen	0.005	74.	Fenfuram	0.005	130.	Methiocarb	0.005	187.	Spinetoram	0.005
19.	Boscalid	0.005	75.	Fenhexamid	0.01	131.	- sulfon	0.005	188.	Spinosad	0.005
20.	Bromacil	0.01	76.	Fenobucarb	0.005	132.	- sulfoxide	0.005	189.	Spirodiclofen	0.005
21.	Bromuconazole	0.005	77.	Fenoxaprop-P-ethyl	0.005	133.	Methomyl	0.005	190.	Spirotetramat	0.005
22.	Cadusafo	0.0025	78.	Fenpropiadin	0.005	134.	Methoprotetryne	0.01	191.	- Enol	0.01
23.	Carbaryl	0.005	79.	Fenpropimorph	0.005	135.	Methoxyfenozide	0.005	192.	- Ketohydroxy	0.005
24.	Carbendazim	0.005	80.	Fenpyroximate	0.005	136.	Metholachlor-S	0.005	193.	- Enol-glucoside	0.005
25.	Carbetamid	0.005	81.	Fensulfothion	0.0025	137.	Metobromuron	0.01	194.	- Monohydroxy	0.005
26.	Carbofuran	0.005	82.	- sulfon	0.0025	138.	Metoxuron	0.005	195.	Spiroxamine	0.005
27.	Carbofuran. 3-hydroxy	0.005	83.	- oxon	0.0025	139.	Metrafenone	0.005	196.	Sulfometuron methyl	0.005
28.	Carbofuran. 3-keto	0.005	84.	- oxon-sulfon	0.0025	140.	Metsulfuron methyl	0.005	197.	Sulfosulfuron	0.005
29.	Carfentrazone ethyl	0.01	85.	Fenthion	0.005	141.	Monocrotophos	0.005	198.	Sulfoxaflor	0.01
30.	Chlorantraniliprole	0.005	86.	- sulfoxide	0.005	142.	Monuron	0.005	199.	Tebuconazole	0.005
31.	Chloridazon	0.005	87.	Flazasulfuron	0.01	143.	Napropamide	0.005	200.	Tebufenozide	0.005
32.	Chlorotoluron	0.005	88.	Flonicamid	0.005	144.	Nicosulfuron	0.01	201.	Tebufenpyrad	0.005
33.	Chlorpyrifos	0.005	89.	Florasulam	0.01	145.	Nitenpyram	0.01	202.	Teflubenzuron	0.005
34.	Chlorsulfuron	0.005	90.	Flufenacet	0.005	146.	Novaluron	0.01	203.	Tepaloxymid	0.005
35.	Chromafenozide	0.005	91.	Flufenoxuron	0.005	147.	Omethoate	0.0025	204.	Terbufos	0.005
36.	Clofentezine	0.005	92.	Fluopicolide	0.005	148.	Oxadixyl	0.005	205.	- sulfon	0.005
37.	Clothianidin	0.01	93.	Fluopyram	0.005	149.	Oxamyl	0.005	206.	- sulfoxide	0.005
38.	Cyantraniliprole	0.01	94.	Flupyradifurone	0.01	150.	Oxycarboxin	0.005	207.	Terbutylazine	0.005
39.	Cyazofamid	0.005	95.	Fluxapyroxad	0.005	151.	Paraaxon methyl	0.005	208.	Thiabendazole	0.005
40.	Cycloxydim	0.01	96.	Fluoxastrobilin	0.005	152.	Parathion	0.005	209.	Thiacloprid	0.005
41.	Cyflufenamid	0.005	97.	Flurochloridone	0.005	153.	Parathion methyl	0.005	210.	Thiamethoxam	0.005
42.	Cymiazol	0.005	98.	Flutolanil	0.005	154.	Pencycuron	0.005	211.	Thiencarbazon methyl	0.01
43.	Cyflumetofen	0.01	99.	Flutriafol	0.005	155.	Pendimethalin	0.005	212.	Thifensulfuron methyl	0.005
44.	Cymoxanil	0.005	100.	Foramsulfuron	0.01	156.	Penflufen	0.01	213.	Thiodicarb	0.01
45.	Cyproconazole	0.005	101.	Formetanate	0.005	157.	Penthiopyrad	0.005	214.	Thiometon	0.005
46.	DEET	0.005	102.	Fosthiazate	0.001	158.	Pethoxamid	0.005	215.	Thiophanate methyl	0.005
47.	Demeton S methyl	0.0025	103.	Fuberidazol	0.005	159.	Phenmedipham	0.005	216.	Tolfenpyrad	0.01
48.	- sulfon	0.0025	104.	Hexaflumuron	0.01	160.	Phenthoate	0.005	217.	Topramezone	0.01
49.	- sulfoxide	0.0025	105.	Hexyflumuron	0.005	161.	Phosmet	0.005	218.	Tralkoxydim	0.005
50.	Desmedipham	0.005	106.	Imazalil	0.005	162.	Phosmet oxon	0.01	219.	Trichlorfon	0.005
51.	Dicofenophos	0.005	107.	Imazapic	0.01	163.	Phoxim	0.005	220.	Tricyclazole	0.005
52.	Diethofencarb	0.005	108.	Imidacloprid	0.005	164.	Pinoxaden	0.005	221.	Tridemorph	0.01
53.	Diflubenuron	0.005	109.	Indoxacarb	0.005	165.	Piperonyl butoxide	0.005	222.	Triflumuron	0.01
54.	Diflufenican	0.005	110.	Iodosulfuron methyl	0.01	166.	Prochloraz	0.005	223.	Trisulfuron methyl	0.005
55.	Dimethenamid	0.005	111.	Ipeconazole	0.005	167.	- BTS 44595	0.005	224.	Triticonazol	0.005
56.	Dimethoate	0.005	112.	Iprovalicarb	0.005	168.	- BTS 44596	0.005	225.	Tritosulfurone	0.01
						169.	Propamocarb	0.005	226.	Zoxamide	0.005



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Table 2d. The list of analyzed pesticides and their limits of quantification (LOQ) – LC-MS/MS – Herbs dry, tea

No.	Pesticide name	LOQ [mg/kg]	No.	Pesticide name	LOQ [mg/kg]	No.	Pesticide name	LOQ [mg/kg]	No.	Pesticide name	LOQ [mg/kg]
1.	Abamectin	0.01	55.	Dinotefuran	0.01	111.	Isoprotazam	0.01	167.	Propoxycarbazon	0.01
2.	Acephate	0.01	56.	Disulfoton. sulfon	0.01	112.	Isoxaben	0.01	168.	Proquinazid	0.01
3.	Acetamiprid	0.01	57.	Disulfoton. sulfoxide	0.01	113.	Isoxaflutol	0.01	169.	Prosulfocarb	0.01
4.	Aclonifen	0.01	58.	Diuron	0.01	114.	Isoxathion	0.01	170.	Prosulfuron	0.01
5.	Aldicarb	0.01	59.	DMF Amitraz	0.01	115.	Lenacil	0.01	171.	Pyridaben	0.01
6.	- sulfon	0.01	60.	DMPF Amitraz	0.01	116.	Linuron	0.01	172.	Pyridafol	0.01
7.	- sulfoxide	0.01	61.	Emamectin	0.01	117.	Lufenuron	0.01	173.	Pyrifeno	0.01
8.	Ametoctradin	0.01	62.	Ethametsulfuron methyl	0.01	118.	Malaoxon	0.01	174.	Pyriproxifen	0.01
9.	Amidosulfuron	0.01	63.	Ethiofencarb	0.01	119.	Malathion	0.01	175.	Pyroquilon	0.01
10.	Amisulbrom	0.01	64.	Ethirimol	0.01	120.	Mandipropamid	0.01	176.	Pyroxulam	0.01
11.	Azadirachtin	0.01	65.	Etozazole	0.01	121.	Metaflumizone	0.01	177.	Quinoclamine	0.01
12.	Aziprotine	0.01	66.	Fenoxadone	0.01	122.	Metaxyl	0.01	178.	Quizalofop ethyl	0.01
13.	Azoxystrobin	0.01	67.	Fenamidone	0.01	123.	Metamitron	0.01	179.	Rimsulfuron	0.01
14.	Beflubutamid	0.01	68.	Fenamiphos	0.01	124.	Methamidophos	0.01	180.	Rotenone	0.01
15.	Bendiocarb	0.01	69.	- sulfon	0.01	125.	Methiocarb	0.01	181.	Saflufenacil	0.01
16.	Benthivacarb isopropyl	0.01	70.	- sulfoxide	0.01	126.	- sulfon	0.01	182.	Silthiofam	0.01
17.	Benzovindifluopyr	0.01	71.	Fenbuconazole	0.01	127.	- sulfoxide	0.01	183.	Spinetoram	0.01
18.	Bixafen	0.01	72.	Fenfuram	0.01	128.	Methomyl	0.01	184.	Spinosad	0.01
19.	Boscalid	0.01	73.	Fenhexamid	0.01	129.	Methoprotin	0.01	185.	Spirodiclofen	0.01
20.	Bromacil	0.01	74.	Fenobucarb	0.01	130.	Methoxyfenozide	0.01	186.	Spirotetramat	0.01
21.	Bromuconazole	0.01	75.	Fenoxaprop-P-ethyl	0.01	131.	Metholachlor-S	0.01	187.	- Enol	0.01
22.	Cadusafos	0.01	76.	Fenpropidin	0.01	132.	Metobromuron	0.01	188.	- Ketohydroxy	0.01
23.	Carbaryl	0.01	77.	Fenpropimorph	0.01	133.	Metosulam	0.01	189.	- Enol-glucoside	0.01
24.	Carbendazim	0.01	78.	Fenpyroximate	0.01	134.	Metoxuron	0.01	190.	- Monohydroxy	0.01
25.	Carbetamid	0.01	79.	Fensulfothion	0.01	135.	Metrafenone	0.01	191.	Spiroxamine	0.01
26.	Carbofuran	0.01	80.	- sulfon	0.01	136.	Metsulfuron methyl	0.01	192.	Sulfosulfuron	0.01
27.	Carbofuran. 3-hydroxy	0.01	81.	- oxon	0.01	137.	Monocrotophos	0.01	193.	Sulfoxaflor	0.01
28.	Carbofuran. 3-keto	0.01	82.	- oxon-sulfon	0.01	138.	Monuron	0.01	194.	Tebuconazole	0.01
29.	Carfentrazon ethyl	0.01	83.	Fenthion	0.01	139.	Napropamide	0.01	195.	Tebufenozide	0.01
30.	Chlorantraniliprole	0.01	84.	- sulfoxide	0.01	140.	Nicosulfuron	0.01	196.	Tebufenpyrad	0.01
31.	Chloridazon	0.01	85.	Flonicamid	0.01	141.	Nitenpyram	0.01	197.	Teflubenzuron	0.01
32.	Chlorotoluron	0.01	86.	Florasulam	0.01	142.	Novaluron	0.01	198.	Terbufos	0.01
33.	Chlorpyrifos	0.01	87.	Flufenacet	0.01	143.	Omethoate	0.01	199.	- sulfon	0.01
34.	Chlorsulfuron	0.01	88.	Flufenoxuron	0.01	144.	Oxadixyl	0.01	200.	- sulfoxide	0.01
35.	Chromafenozide	0.01	89.	Fluopicolide	0.01	145.	Oxamyl	0.01	201.	Terbutylazine	0.01
36.	Clofentezine	0.01	90.	Fluopyram	0.01	146.	Oxycarboxin	0.01	202.	Thiabendazole	0.01
37.	Clothianidin	0.01	91.	Flupyradifurone	0.01	147.	Paraaxon methyl	0.01	203.	Thiacloprid	0.01
38.	Cyantraniliprole	0.01	92.	Fluxapyroxad	0.01	148.	Parathion	0.01	204.	Thiamethoxam	0.01
39.	Cyazofamid	0.01	93.	Fluoxastrobin	0.01	149.	Parathion methyl	0.01	205.	Thiencarbazon methyl	0.01
40.	Cyflufenamid	0.01	94.	Flurochloridone	0.01	150.	Pencycuron	0.01	206.	Thifensulfuron methyl	0.01
41.	Cyflumetofen	0.01	95.	Flutolanil	0.01	151.	Pendimethalin	0.01	207.	Thiodicarb	0.01
42.	Cymiazol	0.01	96.	Flutriafol	0.01	152.	Penthiopyrad	0.01	208.	Thiometon	0.01
43.	Cymoxanil	0.01	97.	Foramsulfuron	0.01	153.	Pethoxamid	0.01	209.	Thiophanate methyl	0.01
44.	Cyproconazole	0.01	98.	Formetanate	0.01	154.	Phenmedipham	0.01	210.	Tolfenpyrad	0.01
45.	DEET	0.01	99.	Fosfiazate	0.01	155.	Phenthoate	0.01	211.	Topramezone	0.01
46.	Demeton S methyl	0.01	100.	Fuberidazol	0.01	156.	Phosmet	0.01	212.	Tralkoxydim	0.01
47.	- sulfon	0.01	101.	Hexythiazox	0.01	157.	Phosmet oxon	0.01	213.	Trichlorfon	0.01
48.	- sulfoxide	0.01	102.	Imazalil	0.01	158.	Phoxim	0.01	214.	Tricyclazole	0.01
49.	Desmedipham	0.01	103.	Imidacloprid	0.01	159.	Pinoxaden	0.01	215.	Tridemorph	0.01
50.	Diclotophos	0.01	104.	Indoxacarb	0.01	160.	Piperonyl butoxide	0.01	216.	Triflumuron	0.01
51.	Diethofencarb	0.01	105.	Iodosulfuron methyl	0.01	161.	Prochloraz	0.01	217.	Triticonazol	0.01
52.	Diflubenzuron	0.01	106.	Ipcnazole	0.01	162.	- BTS 44595	0.01	218.	Tritosulfurone	0.01
53.	Dimethenamid	0.01	107.	Iprovalicarb	0.01	163.	- BTS 44596	0.01	219.	Zoxamide	0.01
54.	Dimethoate	0.01	108.	Isoprocarb	0.01	164.	Propamocarb	0.01			
			109.	Isoprothiolane	0.01	165.	Propaquizafop	0.01			
			110.	Isoproturon	0.01	166.	Propoxur	0.01			



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Table 2e. The list of analyzed pesticides and their limits of quantification (LOQ) – LC-MS/MS – Eggs

No.	Pesticide name	LOQ [mg/kg]	No.	Pesticide name	LOQ [mg/kg]	No.	Pesticide name	LOQ [mg/kg]	No.	Pesticide name	LOQ [mg/kg]
1.	Abamectin	0.01	51.	Dimethenamid	0.01	102.	Iprovalicarb	0.01	153.	Propoxur	0.01
2.	Acephate	0.01	52.	Dimethoate	0.01	103.	Isoprocarb	0.01	154.	Propoxycarbazone	0.01
3.	Acetamiprid	0.01	53.	Disulfoton. sulfon	0.01	104.	Isoprothiolane	0.01	155.	Proquinazid	0.01
4.	Aclonifen	0.01	54.	Disulfoton. sulfoxide	0.01	105.	Isoproturon	0.01	156.	Prosulfocarb	0.01
5.	Aldicarb	0.01	55.	Diuron	0.01	106.	Isopyrazam	0.01	157.	Pyridaben	0.01
6.	- sulfon	0.01	56.	DMF Amitraz	0.01	107.	Linacil	0.01	158.	Pyridafol	0.01
7.	- sulfoxide	0.01	57.	DMPP Amitraz	0.01	108.	Linuron	0.01	159.	Pyrifenoxy	0.01
8.	Ametoctradin	0.01	58.	Emamectin	0.01	109.	Lufenuron	0.01	160.	Pyriproxyfen	0.01
9.	Amidosulfuron	0.01	59.	Ethiofencarb	0.01	110.	Malaoxon	0.01	161.	Pyroquilon	0.01
10.	Amisulbrom	0.01	60.	Ethirimol	0.01	111.	Malathion	0.01	162.	Pyroxulam	0.01
11.	Azadirachtin	0.01	61.	Etoazole	0.01	112.	Mandipropamid	0.01	163.	Quinclamine	0.1
12.	Aziprotine	0.01	62.	Famoxadone	0.01	113.	Metaflumizone	0.01	164.	Quizalofop ethyl	0.01
13.	Azoxystrobin	0.01	63.	Fenamidone	0.01	114.	Metaxyl	0.01	165.	Rimsulfuron	0.01
14.	Beflubutamid	0.01	64.	Fenamiphos	0.01	115.	Methamidophos	0.01	166.	Rotenone	0.01
15.	Bendiocarb	0.01	65.	- sulfon	0.01	116.	Methiocarb	0.01	167.	Silthiofam	0.01
16.	Benthivalecarb isopropyl	0.01	66.	- sulfoxide	0.01	117.	- sulfon	0.01	168.	Spinetoram	0.01
17.	Bixafen	0.01	67.	Fenbuconazole	0.01	118.	- sulfoxide	0.01	169.	Spinosad	0.01
18.	Boscalid	0.01	68.	Fenfuram	0.01	119.	Methomyl	0.01	170.	Spirodiclofen	0.01
19.	Bromuconazole	0.01	69.	Fenhexamid	0.01	120.	Methoprotrene	0.01	171.	Spirotetramat	0.01
20.	Cadusafo	0.01	70.	Fenobucarb	0.01	121.	Methoxyfenozide	0.01	172.	- Enol	0.01
21.	Carbaryl	0.01	71.	Fenoxaprop-P-ethyl	0.01	122.	Metholachlor-S	0.01	173.	- Ketohydroxy	0.01
22.	Carbendazim	0.01	72.	Fenpropidin	0.01	123.	Metobromuron	0.01	174.	- Enol-glucoside	0.01
23.	Carbetamid	0.01	73.	Fenpropiomorph	0.01	124.	Metosulam	0.01	175.	- Monohydroxy	0.01
24.	Carbofuran	0.01	74.	Fenpyroximate	0.01	125.	Metoxuron	0.01	176.	Spiroxamine	0.01
25.	Carbofuran. 3-hydroxy	0.01	75.	Fensulfothion	0.01	126.	Metrafenone	0.01	177.	Sulfometuron methyl	0.005
26.	Carbofuran. 3-keto	0.01	76.	- sulfon	0.01	127.	Metsulfuron methyl	0.01	178.	Sulfosulfuron	0.01
27.	Carfentrazone ethyl	0.01	77.	- oxon	0.01	128.	Monocrotophos	0.01	179.	Sulfoxaflor	0.01
28.	Chlorantraniliprole	0.01	78.	- oxon-sulfon	0.01	129.	Monuron	0.01	180.	Tebuconazole	0.01
29.	Chloridazon	0.01	79.	Fenthion	0.01	130.	Napropamide	0.01	181.	Tebufenozide	0.01
30.	Chlorotoluron	0.01	80.	- sulfoxide	0.01	131.	Nitenpyram	0.01	182.	Tebufenpyrad	0.01
31.	Chlorpyrifos	0.01	81.	Flonicamid	0.01	132.	Omethoate	0.01	183.	Teflubenzuron	0.01
32.	Chlorsulfuron	0.01	82.	Florasulam	0.01	133.	Oxadixyl	0.01	184.	Terbufos	0.01
33.	Chromafenozide	0.01	83.	Flufenacet	0.01	134.	Oxamyl	0.01	185.	- sulfon	0.01
34.	Clofentezine	0.01	84.	Flufenoxuron	0.01	135.	Oxycarboxin	0.01	186.	- sulfoxide	0.01
35.	Clothianidin	0.01	85.	Fluopicolide	0.01	136.	Paraaxon methyl	0.01	187.	Terbutylazine	0.01
36.	Cyantraniliprole	0.01	86.	Fluopyram	0.01	137.	Parathion ethyl	0.01	188.	Thiabendazole	0.01
37.	Cyazofamid	0.01	87.	Flupyradifurone	0.01	138.	Pencycuron	0.01	189.	Thiacloprid	0.01
38.	Cyflufenamid	0.01	88.	Fluxapyroxad	0.01	139.	Pendimethalin	0.01	190.	Thiamethoxam	0.01
39.	Cymiazol	0.01	89.	Fluoxastrobilin	0.01	140.	Penthiopyrad	0.01	191.	Thifensulfuron methyl	0.01
40.	Cymoxanil	0.01	90.	Flurochloridone	0.01	141.	Pethoxamid	0.01	192.	Thiodicarb	0.01
41.	Cyproconazole	0.01	91.	Flutolanil	0.01	142.	Phenmedipham	0.01	193.	Thiometon	0.01
42.	DEET	0.01	92.	Flutriafol	0.01	143.	Phenthoate	0.01	194.	Thiophanate methyl	0.01
43.	Demeton S methyl	0.01	93.	Formetanate	0.01	144.	Phosmet	0.01	195.	Topramezone	0.01
44.	- sulfon	0.01	94.	Fosfiazate	0.01	145.	Phoxim	0.01	196.	Tralkoxydim	0.01
45.	- sulfoxide	0.01	95.	Fuberidazol	0.01	146.	Pinoxaden	0.01	197.	Trichlorfon	0.01
46.	Desmedipham	0.01	96.	Hexythiazox	0.01	147.	Piperonyl butoxide	0.01	198.	Tridemorph	0.01
47.	Dicrotophos	0.01	97.	Imazalil	0.01	148.	Prochloraz	0.01	199.	Triflurumuron	0.01
48.	Diethofencarb	0.01	98.	Imidacloprid	0.01	149.	- BTS 44595	0.01	200.	Trisulfuron methyl	0.01
49.	Diflubenazuron	0.01	99.	Indoxacarb	0.01	150.	- BTS 44596	0.01	201.	Triticonazol	0.01
50.	Diflufenican	0.01	100.	Iodosulfuron methyl	0.01	151.	Propamocarb	0.01	202.	Tritosulfuron	0.01
			101.	Ipcnazole	0.01	152.	Propaquizafop	0.01	203.	Zoxamide	0.01



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Table 3a. The list of analyzed pesticides and their limits of quantification (LOQ) – LC-MS/MS – fruits & vegs, cereals

Lp.	Pesticide	LOQ mg/kg	Lp.	Pesticide	LOQ mg/kg	Lp.	Pesticide	LOQ mg/kg
1.	2,4-D	0.01	11.	Dicamba	0.01	20.	Ioxynil	0.01
2.	2,4-DB	0.01	12.	Diiflufenzopir	0.01	21.	MCPA	0.01
3.	2,4,5-T	0.01	13.	Fenoxaprop-P	0.01	22.	MCPB	0.01
4.	2,3,5-TP (Fenoprop)	0.01	14.	Fluazifop	0.01	23.	Mecoprop (MCP)	0.01
5.	Aminopyralid	0.01	15.	Fluroxypir	0.01	24.	Picloram	0.01
6.	Bentazone	0.01	16.	Haloxypir	0.01	25.	Quizalofop	0.01
7.	Bromacil	0.01	17.	Imazamox	0.01	26.	Triasulfuron	0.01
8.	Bromoxynil	0.01	18.	Imazapyr	0.01	27.	Tribenuron-methyl	0.01
9.	Clopyralid	0.01	19.	Imazethapyr	0.01	28.	Triclopyr	0.01
10.	Dichloroprop (2,4-DP)	0.01				29.	Trinexapac	0.01

Table 3b. The list of analyzed pesticides and their limits of quantification (LOQ) – LC/MS-MS – oily, soil

Lp.	Pesticide	LOQ mg/kg	Lp.	Pesticide	LOQ mg/kg	Lp.	Pesticide	LOQ mg/kg
1.	2,4-D	0.01	9.	Dicamba	0.01	17.	Ioxynil	0.01
2.	2,4-DB	0.01	10.	Diiflufenzopir	0.01	18.	MCPA	0.01
3.	2,4,5-T	0.01	11.	Fenoxaprop-P	0.01	19.	MCPB	0.01
4.	2,3,5-TP (Fenoprop)	0.01	12.	Fluazifop	0.01	20.	Mecoprop (MCP)	0.01
5.	Bentazone	0.01	13.	Fluroxypir	0.01	21.	Quizalofop	0.01
6.	Bromacil	0.01	14.	Haloxypir	0.01	22.	Triasulfuron	0.01
7.	Bromoxynil	0.01	15.	Imazamox	0.01	23.	Tribenuron-methyl	0.01
8.	Dichloroprop (2,4-DP)	0.01	16.	Imazethapyr	0.01	24.	Triclopyr	0.01
						25.	Trinexapac	0.01

Table 4a. The list of analyzed pesticides and their limits of quantification (LOQ) – LC/MS-MS -fruits and vegs

Lp.	Nazwa środka ochrony roślin	DGO mg/kg	Lp.	Nazwa środka ochrony roślin	DGO mg/kg	Lp.	Nazwa środka ochrony roślin	DGO mg/kg
1.	TFNA	0,005	4.	Flonicamid	0,005	7.	Fentin	0,0025
2.	TFNA-AM	0,005	5.	Dithianon	0,005	8.	Fenbutatin oxide	0,005
3.	TFNG	0,005	6.	Dodine	0,005	9.	Cyhexatin	0,005

Table 4b. The list of analyzed pesticides and their limits of quantification (LOQ) – -cereals, oily or dry metrices

Lp.	Nazwa środka ochrony roślin	DGO mg/kg	Lp.	Nazwa środka ochrony roślin	DGO mg/kg	Lp.	Nazwa środka ochrony roślin	DGO mg/kg
1.	TFNA	0,01	4.	Flonicamid	0,005	7.	Fentin	0,0025
2.	TFNA-AM	0,01	5.	Dithianon	0,005	8.	Fenbutatin oxide	0,005
3.	TFNG	0,01	6.	Dodine	0,005	9.	Cyhexatin	0,005



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Table 5. The list of analyzed pesticides and their limits of quantification (LOQ) in soil – GC-MS/MS

No.	Pesticide name	LOQ [mg/kg]	No.	Pesticide name	LOQ [mg/kg]	No.	Pesticide name	LOQ [mg/kg]	No.	Pesticide name	LOQ [mg/kg]
1.	Acetachlor	0.005	65.	DDM	0.005	129.	Flumetralin	0.005	193.	Phosmet	0.005
2.	Acrinathrin	0.005	66.	DDT-o,p	0.005	130.	Fluorodifen	0.005	194.	Phthalimide	0.005
3.	Alachlor	0.005	67.	DDT-p,p	0.005	131.	Fluotrimazole	0.005	195.	Picolinafen	0.005
4.	Aldrin	0.005	68.	Deltamethrin	0.005	132.	Fluquinconazole	0.005	196.	Picoxystrobin	0.005
5.	Allethrin	0.005	69.	Demeton-S	0.005	133.	Flusilazole	0.005	197.	Piperonyl-butoxide	0.005
6.	Ametryn	0.005	70.	Desmetryn	0.005	134.	Flutriafol	0.005	198.	Piperophos	0.005
7.	Aminocarb	0.005	71.	Dialifos	0.005	135.	Fluvalinate	0.005	199.	Pirimicarb	0.005
8.	Antraquinone	0.005	72.	Diazinon	0.005	136.	Folpet	0.005	200.	Pirimicarb-desmethyl	0.005
9.	Atrazine	0.005	73.	Dichlobenil	0.005	137.	Fonofos	0.005	201.	Pirimiphos-methyl	0.005
10.	Azaconazole	0.005	74.	Dichloroaniline	0.005	138.	Formothion	0.005	202.	Procyimidone	0.005
11.	Azinphos-methyl	0.005	75.	Dichlorobenzophenone	0.005	139.	Furalaxyl	0.005	203.	Profenofos	0.005
12.	Beflubutamid	0.005	76.	Dichlorvos	0.005	140.	Furathiocarb	0.005	204.	Profluralin	0.005
13.	Benalaxyl	0.005	77.	Diclobutrazol	0.005	141.	Halfenprox	0.005	205.	Promethryn	0.005
14.	Benfluralin	0.005	78.	Dicofol	0.005	142.	HCH, alpha	0.005	206.	Prometon	0.005
15.	Benfuracarb	0.005	79.	Dieldrin	0.005	143.	HCH, beta	0.005	207.	Propachlor	0.005
16.	Bifenazate	0.005	80.	Diethofencarb	0.005	144.	Heptachlor	0.005	208.	Propargite	0.005
17.	Bifenox	0.005	81.	Difenoconazole	0.005	145.	Heptachlor epoxide, cis-	0.005	209.	Propazine	0.005
18.	Bifenthrin	0.005	82.	Dimethachlor	0.005	146.	Heptachlor epoxide, trans-	0.005	210.	Propetamphos	0.005
19.	Biphenyl	0.005	83.	Dimethoate	0.005	147.	Heptenophos	0.005	211.	Propham	0.005
20.	Bitertanol	0.005	84.	Dimethomorph	0.005	148.	Hexachlorobenzene	0.005	212.	Propiconazole	0.005
21.	Boscalid	0.005	85.	Dimethylchlorotal	0.005	149.	Hexaconazole	0.005	213.	Prothioconazole-desethio	0.005
22.	Bromfeninfos	0.005	86.	Dimoxystrobin	0.005	150.	Imazalil	0.005	214.	Prothiofos	0.005
23.	Bromocyclofen	0.005	87.	Dimiconazole	0.005	151.	Iprobenfos	0.005	215.	Pyraclostrobin	0.005
24.	Bromophos	0.005	88.	Dioxabenfos	0.005	152.	Iprodione	0.005	216.	Pyrazophos	0.005
25.	Bromopropylate	0.005	89.	Dioxacarb	0.005	153.	Isofenphos	0.005	217.	Pyridaben	0.005
26.	Bupirimate	0.005	90.	Dioxathion	0.005	154.	Jodofenphos	0.005	218.	Pyrifeno	0.005
27.	Buprofezin	0.005	91.	Diphenylamine	0.005	155.	Kresoxim-methyl	0.005	219.	Pyrimethanil	0.005
28.	Butachlor	0.005	92.	Disulfoton	0.005	156.	Lindan	0.005	220.	Pyriproxyfen	0.005
29.	Butafenacil	0.005	93.	Ditalimfos	0.005	157.	Malaoxon	0.005	221.	Pyroquilon	0.005
30.	Butylate	0.005	94.	DMST	0.005	158.	Malathion	0.005	222.	Qinoxifen	0.005
31.	Captan	0.005	95.	Dodemorph	0.005	159.	Mecarbam	0.005	223.	Quinalphos	0.005
32.	Carbaryl	0.005	96.	Edifenphos	0.005	160.	Mepanipyrim	0.005	224.	Quintozene	0.005
33.	Carboxin	0.005	97.	Endosulfan, alpha-	0.005	161.	Mepronil	0.005	225.	Resmethrin	0.005
34.	Chinomethionat	0.005	98.	Endosulfan, beta-	0.005	162.	Metalaxyl	0.005	226.	Sulfotep	0.005
35.	Chlorbenside	0.005	99.	Endosulfansulfate	0.005	163.	Metazachlor	0.005	227.	Tebuconazole	0.005
36.	Chlorbufam	0.005	100.	Endrin	0.005	164.	Metconazole	0.005	228.	Tebuconazole	0.005
37.	Chlorfenapyr	0.005	101.	EPN	0.005	165.	Methacryfos	0.005	229.	Tecnazene	0.005
38.	Chlorfenson	0.005	102.	Epoxyconazole	0.005	166.	Methidathion	0.005	230.	Tefluthrin	0.005
39.	Chlorfenvinphos	0.005	103.	Esfenvalerate	0.005	167.	Methoxychlor	0.005	231.	Terbacil	0.005
40.	Chlormephos	0.005	104.	Etaconazole	0.005	168.	Metolachlor	0.005	232.	Terbufos	0.005
41.	Chlorobenzilate	0.005	105.	Ethalfuralin	0.005	169.	Metribuzin	0.005	233.	Terbutryn	0.005
42.	Chloropropylate	0.005	106.	Ethion	0.005	170.	Mevinphos	0.005	234.	Tetrachlorvinphos	0.005
43.	Chlorpropham	0.005	107.	Ethofumesate	0.005	171.	Myclobutanil	0.005	235.	Tetraconazole	0.001
44.	Chlorpyrifos	0.005	108.	Ethoprophos	0.005	172.	Nitralin	0.005	236.	Tetradifon	0.005
45.	Chlorpyrifos-methyl	0.005	109.	Etofenprox	0.005	173.	Nitrapyrin	0.005	237.	TetrahydroPhthalimide	0.005
46.	Chlorthion	0.005	110.	Etrifos	0.005	174.	Nitrofen	0.005	238.	Tetramethrin	0.005
47.	Chlorthiophos	0.005	111.	Fenamiphos	0.005	175.	Nitrotal-isopropyl	0.005	239.	Tetrasul	0.005
48.	Clodinafop-propargyl	0.005	112.	Fenarimol	0.005	176.	Nuarimol	0.005	240.	Tolclofos-methyl	0.005
49.	Clomazone	0.005	113.	Fenazaquin	0.005	177.	Oxadixyl	0.005	241.	Triadimefon	0.005
50.	Coumaphos	0.005	114.	Fenbuconazole	0.005	178.	Oxyfluorfen	0.005	242.	Triadimenol	0.005
51.	Crimidine	0.005	115.	Fenchlorphos	0.005	179.	Paclobutrazol	0.005	243.	Tri-Allate	0.005
52.	Cyanazine	0.005	116.	Fenhexamid	0.005	180.	Parathion	0.005	244.	Triazophos	0.005
53.	Cyanoferphos	0.005	117.	Fenitrothion	0.005	181.	Parathion-methyl	0.005	245.	Trifloxystrobin	0.005
54.	Cyanophos	0.005	118.	Fenoxycarb	0.005	182.	Penconazole	0.005	246.	Triflumizole	0.005
55.	Cycloate	0.005	119.	Fenprothrin	0.005	183.	Pencycuron	0.005	247.	Trifluralin	0.005
56.	Cyfluthrin	0.005	120.	Fenpropidin	0.005	184.	Pendimethalin	0.005	248.	Vinclozolin	0.005
57.	Cyhalothrin, lambda-	0.005	121.	Fenpropimorph	0.005	185.	Permethrin	0.005			
58.	Cypermethrin	0.005	122.	Fenthion	0.005	186.	Perthian	0.005			
59.	Cyproconazole	0.005	123.	Fenvalerate	0.005	187.	Phethoate	0.005			
60.	Cyprodinil	0.005	124.	Fipronil	0.005	188.	Phenylphenol	0.005			
61.	DDD-o,p	0.005	125.	Fipronil-disulfenyl	0.005	189.	Phorate	0.005			
62.	DDD-p,p	0.005	126.	Fluchloralin	0.005	190.	Phorate-sulfoxide	0.005			
63.	DDE-o,p	0.005	127.	Flucythrinate	0.005	191.	Phosalone	0.005			
64.	DDE-p,p	0.005	128.	Fludioxonil	0.005	192.	Phosfamidon	0.005			



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Table 6. The list of analyzed pesticides and their limits of quantification (LOQ) – LC-MS/MS – soil

No.	Pesticide name	LOQ [mg/kg]	No.	Pesticide name	LOQ [mg/kg]	No.	Pesticide name	LOQ [mg/kg]	No.	Pesticide name	LOQ [mg/kg]
1.	Acetamiprid	0.01	51.	Diffufenican	0.01	101.	Isoprothiolane	0.01	151.	Propoxycarbazone	0.01
2.	Aclonifen	0.01	52.	Dimethenamid	0.01	102.	Isoproturon	0.01	152.	Proquinazid	0.01
3.	Aldicarb	0.01	53.	Dimethoate	0.01	103.	Isopyrazam	0.01	153.	Prosulfocarb	0.01
4.	- sulfon	0.01	54.	Disulfoton. sulfon	0.01	104.	Isoxaben	0.01	154.	Prosulfuron	0.01
5.	- sulfoxide	0.01	55.	Disulfoton. sulfoxide	0.01	105.	Isoxaflutol	0.01	155.	Pyridaben	0.01
6.	Ametoctradin	0.01	56.	Emamectin B1a	0.01	106.	Isoxathion	0.01	156.	Pyridafol	0.01
7.	Amidosulfuron	0.01	57.	Emamectin B1b	0.01	107.	Lenacil	0.01	157.	Pyrifenoxy	0.01
8.	Amisulbrom	0.01	58.	Ethiofencarb	0.01	108.	Linuron	0.01	158.	Pyriproxyfen	0.01
9.	Azadirachtin	0.01	59.	Fenoxadone	0.01	109.	Malaoxon	0.01	159.	Pyroquilon	0.01
10.	Aziprotine	0.01	60.	Fenamidone	0.01	110.	Malathion	0.01	160.	Quinoclamine	0.01
11.	Azoxystrobin	0.01	61.	Fenamiphos	0.01	111.	Mandipropamid	0.01	161.	Quizalofop ethyl	0.01
12.	Beflubutamid	0.01	62.	- sulfon	0.01	112.	Metaxyl	0.01	162.	Rimsulfuron	0.01
13.	Bendiocarb	0.01	63.	- sulfoxide	0.01	113.	Metamitron	0.01	163.	Rotenone	0.01
14.	Benthivallcarb isopropyl	0.01	64.	Fenbuconazole	0.01	114.	Methamidophos	0.01	164.	Saflufenacil	0.01
15.	Benzovindifluopyr	0.01	65.	Fenfuram	0.01	115.	Methiocarb	0.01	165.	Silthiofam	0.01
16.	Bixafen	0.01	66.	Fenhexamid	0.01	116.	- sulfon	0.01	166.	Spinetoram C42	0.01
17.	Boscalid	0.01	67.	Fenobucarb	0.01	117.	- sulfoxide	0.01	167.	Spinetoram C43	0.01
18.	Bromacil	0.01	68.	Fenoxaprop-P-ethyl	0.01	118.	Methomyl	0.01	168.	Spinosad	0.01
19.	Bromuconazole	0.01	69.	Fenpropidin	0.01	119.	Methoprotinyl	0.01	169.	Spirodiclofen	0.01
20.	Cadusafos	0.01	70.	Fenpropimorph	0.01	120.	Methoxyfenozide	0.01	170.	Spirotetramat	0.01
21.	Carbaryl	0.01	71.	Fenpyroximate	0.01	121.	Metholachlor-S	0.01	171.	- Enol	0.01
22.	Carbendazim	0.01	72.	Fensulfothion	0.01	122.	Metobromuron	0.01	172.	- Ketohydroxy	0.01
23.	Carbetamid	0.01	73.	- sulfon	0.01	123.	Metoxuron	0.01	173.	- Enol-glucoside	0.01
24.	Carbofuran	0.01	74.	- oxon	0.01	124.	Metrafenone	0.01	174.	- Monohydroxy	0.01
25.	Carbofuran. 3-hydroxy	0.01	75.	- oxon-sulfon	0.01	125.	Metsulfuron methyl	0.01	175.	Spiroxamine	0.01
26.	Carbofuran. 3-keto	0.01	76.	Fenthion	0.01	126.	Monocrotophos	0.01	176.	Sulfometuron methyl	0.01
27.	Carfentrazone ethyl	0.01	77.	- sulfoxide	0.01	127.	Monuron	0.01	177.	Sulfosulfuron	0.01
28.	Chlorantraniliprole	0.01	78.	Flonicamid	0.01	128.	Napropamide	0.01	178.	Sulfoxaflor	0.01
29.	Chlorotoluron	0.01	79.	Florasulam	0.01	129.	Novaluron	0.01	179.	Tebuconazole	0.01
30.	Chlorpyrifos	0.01	80.	Flufenacet	0.01	130.	Omethoate	0.01	180.	Tebufenozide	0.01
31.	Chlorisulfuron	0.01	81.	Fluopicolide	0.01	131.	Oxadixyl	0.01	181.	Tebuconazole	0.01
32.	Chromafenozide	0.01	82.	Fluopyram	0.01	132.	Oxamyl	0.01	182.	Teflubenzuron	0.01
33.	Clofentezine	0.01	83.	Flupyradifurone	0.01	133.	Oxycarboxin	0.01	183.	Terbufos	0.01
34.	Clothianidin	0.01	84.	Fluxapyroxad	0.01	134.	Pencycuron	0.01	184.	- sulfon	0.01
35.	Cyantraniliprole	0.01	85.	Fluoxastrobin	0.01	135.	Pendimethalin	0.01	185.	- sulfoxide	0.01
36.	Cyazofamid	0.01	86.	Flurochloridone	0.01	136.	Penthiopyrad	0.01	186.	Terbutylazine	0.01
37.	Cycloxydim	0.01	87.	Fluroxypyr	0.01	137.	Pethoxamid	0.01	187.	Thiacloprid	0.01
38.	Cyflufenamid	0.01	88.	Flutolanil	0.01	138.	Phenmedipham	0.01	188.	Thiamethoxam	0.01
39.	Cyflumetofen	0.01	89.	Flutriafol	0.01	139.	Phenthoate	0.01	189.	Thiencarbazone methyl	0.01
40.	Cymiazol	0.01	90.	Formetanate	0.01	140.	Phosmet	0.01	190.	Thiodicarb	0.01
41.	Cymoxanil	0.01	91.	Fosfiazate	0.01	141.	Phosmet oxon	0.01	191.	Thiometon	0.01
42.	Cyproconazole	0.01	92.	Fuberidazol	0.01	142.	Phoxim	0.01	192.	Thiophanate methyl	0.01
43.	DEET	0.01	93.	Hexaflumuron	0.01	143.	Pinoxaden	0.01	193.	Tralkoxydim	0.01
44.	Demeton S methyl	0.01	94.	Hexythiazox	0.01	144.	Piperonyl butoxide	0.01	194.	Trichlorfon	0.01
45.	- sulfon	0.01	95.	Imazalil	0.01	145.	Prochloraz	0.01	195.	Tricyclazole	0.01
46.	- sulfoxide	0.01	96.	Imidacloprid	0.01	146.	- BTS 44595	0.01	196.	Triflururon	0.01
47.	Desmedipham	0.01	97.	Indoxacarb	0.01	147.	- BTS 44596	0.01	197.	Trisulfuron methyl	0.01
48.	Diclotophos	0.01	98.	Ispiconazole	0.01	148.	Propamocarb	0.01	198.	Triticonazol	0.01
49.	Diethofencarb	0.01	99.	Iprovalicarb	0.01	149.	Propaquizafop	0.01	199.	Tritosulfuron	0.01
50.	Diflufenuron	0.01	100.	Isoprocab	0.01	150.	Propoxur	0.01	200.	Zoxamide	0.01



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Table 7. The list of analyzed pesticides and their limits of quantification (LOQ - µg/l) – LC-MS/MS – water

No.	Pesticide name	LOQ [µg/l]	No.	Pesticide name	LOQ [µg/l]	No.	Pesticide name	LOQ [µg/l]	No.	Pesticide name	LOQ [µg/l]
1.	Acetamiprid	0.05	28.	Fenamidone	0.05	55.	Isoxaben	0.05	82.	Phenthoate	0.05
2.	Ametoctradin	0.05	29.	Fenamiphos	0.05	56.	Lenacil	0.05	83.	Pinoxaden	0.05
3.	Amidosulfuron	0.05	30.	- sulfone	0.05	57.	Malaoxon	0.05	84.	Propoxur	0.05
4.	Azoxystrobin	0.05	31.	- sulfoxide	0.05	58.	Malathion	0.05	85.	Proquinazid	0.05
5.	Bentazone	0.05	32.	Fenobucarb	0.05	59.	Mandipropamid	0.05	86.	Prosulfocarb	0.05
6.	Bromacil	0.05	33.	Fenoxaprop-P	0.05	60.	MCPA	0.05	87.	Prosulfuron	0.05
7.	Bromoxynil	0.05	34.	Fenpropidin	0.05	61.	MCPB	0.05	88.	Quizalofop ethyl	0.05
8.	Cadusafos	0.05	35.	Fenpropimorph	0.05	62.	Mecoprop	0.05	89.	Silthiofam	0.05
9.	Carbaryl	0.05	36.	Fensulfothion	0.05	63.	Metalaxyl	0.05	90.	Spirotetramat	0.05
10.	Carbendazim	0.05	37.	- sulfone	0.05	64.	Methamidophos	0.05	91.	Spiroxamine	0.05
11.	Carbofuran	0.05	38.	- oxon	0.05	65.	Methiocarb. sulfoxide	0.05	92.	Sulfometuron methyl	0.05
12.	Carbofuran. 3-hydroxy	0.05	39.	- oxon sulfone	0.05	66.	Metholachlor-S	0.05	93.	Sulfoxaflor	0.05
13.	Chloridazon	0.05	40.	Flazasulfuron	0.05	67.	Methomyl	0.05	94.	Tebufenozide	0.05
14.	Chromafenozide	0.05	41.	Fluazifop	0.05	68.	Methoxyfenozide	0.05	95.	Terbufos sulfoxide	0.05
15.	Cyantraniliprole	0.05	42.	Flufenacet	0.05	69.	Monobromuron	0.05	96.	Terbutylazine	0.05
16.	2,4-D	0.05	43.	Fluoxastrobin	0.05	70.	Metosulam	0.05	97.	Thiabendazole	0.05
17.	2,4-DB	0.05	44.	Fluopicolide	0.05	71.	Metoxuron	0.05	98.	Tiacloprid	0.05
18.	DEET	0.05	45.	Fluoxypyrr	0.05	72.	Metriflone	0.05	99.	Thiodicarb	0.05
19.	Demeton-S methyl	0.05	46.	Flutolanil	0.05	73.	Metsulfuron methyl	0.05	100.	Tralkoxydim	0.05
20.	- sulfone	0.05	47.	Flutriafol	0.05	74.	Monocrotophos	0.05	101.	Zoxamide	0.05
21.	- sulfoxide	0.05	48.	Foramsulfuron	0.05	75.	Napropamide	0.05			
22.	Dichlorprop	0.05	49.	Fuberidazol	0.05	76.	Nicosulfuron	0.05			
23.	Diethofencarb	0.05	50.	Haloxifop	0.05	77.	Omethoate	0.05			
24.	Dimethenamid	0.05	51.	Imazalil	0.05	78.	Oxadixyl	0.05			
25.	Dimethoate	0.05	52.	Iprowalcarb	0.05	79.	Oxamyl	0.05			
26.	Ethamsulfuron methyl	0.05	53.	Isoproturon	0.05	80.	Paraaxon methyl	0.05			
27.	Etimol	0.05	54.	Isopyrazam	0.05	81.	Pencycuron	0.05			

Table 8. The list of analyzed pesticides and their limits of quantification (LOQ - µg/l) – GC-MS/MS – water

No.	Pesticide name	LOQ [µg/l]	No.	Pesticide name	LOQ [µg/l]	No.	Pesticide name	LOQ [µg/l]	No.	Pesticide name	LOQ [µg/l]
1.	Aldrin	0.05	26.	DDD-o,p	0.05	51.	Fluchloralin	0.05	76.	Pyridaben	0.1
2.	Beflubutamid	0.1	27.	DDD-p,p	0.05	52.	Fludioxonil	0.1	77.	Pyrimethanil	0.1
3.	Benfluralin	0.05	28.	DDE-o,p	0.05	53.	Flumetralin	0.1	78.	Pyriproxyfen	0.05
4.	Benfluracarb	0.05	29.	DDE-p,p	0.05	54.	Furathiocarb	0.1	79.	Qinoxifen	0.05
5.	Bifenazate	0.1	30.	DDM	0.05	55.	α-HCH	0.05	80.	Quinalphos	0.1
6.	Bifenthrin	0.05	31.	DDT-o,p	0.05	56.	Heptachlor	0.05	81.	Quintozene	0.1
7.	Bromfeninfos	0.05	32.	DDT-p,p	0.05	57.	- trans epoxide	0.1	82.	Profenofos	0.1
8.	Bromophos ethyl	0.05	33.	Dialifos	0.1	58.	- cis epoxide	0.1	83.	Profluralin	0.1
9.	Bromophos methyl	0.05	34.	Diazinon	0.1	59.	Hexachlorobenzene	0.05	84.	Prometryn	0.1
10.	Bromopropylate	0.05	35.	Dichlofenthion	0.01	60.	Iodofenphos	0.05	85.	Propargite	0.1
11.	Bupirimate	0.05	36.	Dieldrin	0.05	61.	Isofenphos ethyl	0.05	86.	Propiconazole	0.1
12.	Buprofezin	0.1	37.	Difenoconazole	0.1	62.	LambdaCyhalothrin	0.1	87.	Prothiofos	0.1
13.	Butachlor	0.1	38.	Diphenylamine	0.1	63.	Lindan	0.05	88.	Spiromesifen	0.05
14.	Butylate	0.05	39.	α-Endosulfan	0.1	64.	Methoxychlor	0.05	89.	Sulfotep	0.05
15.	Chlordane	0.05	40.	β-Endosulfan	0.1	65.	Nitrothal isopropyl	0.1	90.	Tebufenpyrad	0.05
16.	Chlorfenapyr	0.1	41.	Endosulfan, sulph.	0.05	66.	Pentachloroaniline	0.05	91.	Tebuconazole	0.1
17.	Chlorpropylate	0.05	42.	Ethalfuralin	0.1	67.	Permethrin	0.1	92.	Tecnazene	0.05
18.	Chlorpyrifos	0.05	43.	Ethion	0.1	68.	Perthian	0.05	93.	Terbutryn	0.05
19.	Chlorpyrifos-Methyl	0.05	44.	Etofenprox	0.05	69.	Phethoate	0.1	94.	Tetradifon	0.1
20.	Chlorthiophos	0.05	45.	Etrifos	0.1	70.	Phosalone	0.1	95.	Tetramethrin	0.1
21.	Cyanofenfos	0.05	46.	Fenazaquin	0.05	71.	Picolinafen	0.05	96.	Tetrasul	0.05
22.	Cycloate	0.05	47.	Fenchlorphos	0.05	72.	Picoxystrobin	0.05	97.	Tolclofos methyl	0.05
23.	Cypermethrin	0.1	48.	Fenpropathrin	0.1	73.	Piperonyl butoxide	0.05	98.	Tri-Allate	0.05
24.	Cyprodinil	0.05	49.	Fenthion	0.05	74.	Piperophos	0.05	99.	Trifloxystrobin	0.05
25.	DCPA	0.05	50.	Fenvalerate	0.1	75.	Pyrimiphos-Methyl	0.05	100.	Trifluralin	0.05

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