1.6.Selectarea si structurarea bazei de date pentru definirea algoritmului inovativ si descrierea detaliata a conditiilor de functionalitate in ipoteza matricilor variate si complexe de fructe, legume si plante medicinale

Nr. crt.	Pesticid	Clasa chimica /activitate	MRL (mg/kg), functie de referential si pe categorii de matrice	Metoda analiza		LOQ(mg/kg)	Bibliografie/ (*observatii)*
				Prelucrare	Cantitativa		
1.	Acefat*	OP /insecticid	0.1 (FE) 0.02-(RO O 12/2008)	QuEChERS QuEChERS - modificata	GC-MS LC-MS/MS GC-MS	0.05 0.01-0.02 0.05 0.005-0.009 0,035 0.02	1 1, 4, 6, 9 8 23, 24 13 29
2.	Acetamiprid	neonicotinoid/ insecticid	0.1-PM, condimente (EU) 0.01-(RO O 12/2008)	QuEChERS QuEChERS - modificata	LC LC-MS/MS GC-MS	0.01-0.02 0.0002-0.0005 0.005	1, 4 24 13
3.	Alaclor*	acetamida/erbicid	0.05 (FE) 0.05-(RO O 12/2008)	QuEChERS LLE, SPE MSPD	GC-MS GC-MS GC-MS	0.018 0.02-0.00004 0,008	2 14 (miere), 19 20
4.	Aldicarb(suma cu aldicarb-suloxid si aldicarb-sulfona)	carbamat /insecticid	0.05-PM, condimente (EU) 0.02-(RO O 12/2008)	QuEChERS QuEChERS –	LC LC-MS/MS GC-MS	0.01-0.02 0.0015-0.005 0.02	1, 4 24 13

				modificata			
5.	Aldrin* (suma cu dieldrin)	OC/insecticid	0.05 (FE) 0.01-(RO O 12/2008)	QuEChERS	GC-MS	0.032 0.048 0.002 0.01 0,005-0,01	1 2 3, 29 5, 7 21
				QuEChERS modificata	GC-MS	0.003(aldrin) 0.0025(dieldrin)	10
				LLE, SPE	GC-MS	0.00002-0,02	14 (miere), 19
				LLE	GC-µECD	0.0001	18
				MSPD	GC-MS GC-MS	0.012 0,004	16 20
6.	Azinfos-metil*	OP/insecticid	1,0 (FE) 0.05-(RO O 12/2008)	QuEChERS	GC-MS	0.01 0.86	1 2
					LC-MS/MS	0.01-0.02 0.001	1, 4 24
				QuEChERS – modificata	GC-MS	0.003	13 (miere)
				MSPD	GC-MS	0.004	20

					LC-MS/MS	0.00007	25
7.	Azinfos etil*	OP/insecticid	0.1 (FE) 0.02 (RO O 12/2008)	QuEChERS LLE, SPE MSPD	GC-MS LC-MS/MS GC-MS GC-MS	0.05 0.01-0.02 0.00003 0.004	1 1 19 20
8.	Azoxistrobin	metoxiacrilat/fungicid	0.1-ceai, cafea (EU) 50-plante uscate (EU) 0.05-(RO O 12/2008)	QuEChERS QuEChERS – modificata MSPD	GC-MS GC-MS LC-MS/MS GC-MS GC-MS	0.01 0,005-0,01 0.01-0.02 0.0005 0.001 0,008	1 21 1, 4 24 13(miere) 20
9.	Benfuracarb	carbamat/insecticid	0.1-PM, condimente (EU) 0.05-(RO O 12/2008)	MSPD	GC-MS	0,005	20
10.	Bifenil	hidrocarbura aromatica/ fungicid	0.01 –toate matricele (EU)	QuEChERS modificata	GC-MS	0.001	10
11.	Bifentrin	piretroid/insecticid	0.1-PM, condimente (EU) 10-hamei uscat (EU) 0.05-(RO O 12/2008)	QuEChERS QuEChERS –	GC-MS GC-MS	0,005, 0.01 0.0004	1, 21 13(miere)

				modificata			
				LLE	GC-ECD	0.03	15
				MSPD	GC-MS	0.004	20
				LLE, GPC	GC-ECD	0.001	22
					GC-MS	0,015	22
12.	Bitertanol	triazol /fungicid	0.1-PM, condimente (EU)	QuEChERS	GC-MS	0.01	1
			0.05-(RO O 12/2008)		LC-MS/MS	0.01-0.02	1, 4
						0.0006-0.002	24
				MSPD	GC-MS	0,004	20
				LLE, GPC	GC-NPD	0.01	22
					GC-MS	0.01	22
13.	Boscalid	carboxamida/fungicid	0.5-PM, condimente (EU)	QuEChERS	GC-MS	0.101	1
			60-hamei uscat(EU)		LC-MS/MS	0.01-0.02	1, 4
			0.05-(RO O 12/2008)	QuEChERS - modificata	GC-MS	0,001	13(miere)
14.	Bromofos etil*	tiofosfat/acaricid, insecticid	0.05-(FE)	QuEChERS	GC-MS	0.01-0.1	1
			0.05-(RO O 12/2008)	LLE, SPE	GC-µECD	0.0018-0.0022	18
				MSPD	MSPD	0.004	20
15.	Bromofos metil*	tiofosfat/acaricid, insecticid	0.05-(FE)	QuEChERS	GC-MS	0.01-0.1	1

				LLE, SPE MSPD	GC-µECD GC-MS	0.0019-0.0021 0,004	18 20
16.	Bromopropilat*	isopropyl-4,4'-dibromo-benzilate /acaricid	3,0 (FE) 0.05 (RO O 12/2008)	QuEChERS LLE, SPE MSPD	GC-MS GC-MS GC-MS	0.01-0.1 0.52 0,02 0.012	1 2 14 (miere) 20
17.	Bupirimat	pirimidina/fungicid	0.05-PM, condimente (EU) 10-hamei uscat(EU) 0.05-(RO O 12/2008)	QuEChERS	GC-MS LC-MS/MS	0.01-0.1 0.01-0.02 0.001-0.005	1 1 24
18.	Buprofezin	tiadiazina /insecticid	0.05-PM, condimente (EU) 5-hamei uscat(EU) 1-(RO O 12/2008)	QuEChERS MSPD	GC-MS LC-MS/MS GC-MS	0.05-0.1 0.01-0.02 0.003	1 1 20
19.	Captan	mercaptan /fungicid	0.05-PM, condimente (EU) 0.02-(RO O 12/2008)	QuEChERS QuEChERS – modificata LLE, SPE MSPD	GC-MS GC-MS GC-µECD GC-MS	0.05 0.01 0.002-0.0021 0,016	1 13(miere) 18 20
20.	Carbaril	carbamat /insecticid	0.05-PM, condimente (EU) 0.05-1-(RO O 12/2008)	QuEChERS	LC-MS/MS	0.01 0.05	4, 6 8

						0.005	23, 24
					GC-MS	0.01	7, 9
						0.005	13(miere)
				LLE, SPE	GC-MS	0.00003	19
				MSPD	GC-MS	0.011	20
					LC-MS/MS	0.0001	25
				LLE, GPC	GC-NPD	0.01	22
					GC-MS	0.005	22
21.	Carbofuran (suma cu 3-hidroxi-carbofuran)	carbamat/insecticid	0.05-PM, condimente (EU)	QuEChERS	LC-MS/MS	0.01-0.02	1, 4
			0.02-(RO O 12/2008)			0.001	24
				QuEChERS modificata	GC-MS	0.01	10
				LLE, SPE			
					GC-MS	0.00001	19
				MSPD	GC-MS	0.003	20
22.	Carbendazim	benzimidazol/fungicid	0.1-PM, condimente (EU)	QuEChERS	LC-MS/MS	0.01-0.05	1, 4, 6, 8, 9
			0.1 (RO O 12/2008)			0.005	23
						0.0005-0.001	24
				QuEChERS – modificata	GC-MS	0.001	13 (miere)

				MSPD	LC-MS/MS	0.0006	25
23.	Clordan* (suma de izomeri)	OC/insecticid	0.05 (FE) 0.01 (RO O 12/2008)	QuEChERS	GC-MS	0.048 0.001 0.01	2 3 5, 7, 9
				QuEChERS – modificata	GC-MS	0.0025	10
				LLE, SPE	GC-MS	0.00004	19
24.	Clorfenson	difenil/acaricid	0.1-PM, condimente (EU) 0.01-(RO O 12/2008)	QuEChERS	GC-MS	0.05	1
				MSPD	GC-MS	0.004	20
25.	Ciflutrin* (suma)	piretroid/insecticid	1.0-(FE) 0.02-(RO O 12/2008)	QuEChERS	GC-MS	0.01-0.1	1
				QuEChERS – modificata	GC-MS	0.001	13 (miere)
				LLE, SPE	GC-MS	0.02	14 (miere)
						0.00005	19
				MSPD	GC-MS	0,011	20
				LLE, GPC	GC-ECD	0,005	22
					GC-MS	0,02	22
26.	Cipermetrin* si	piretroid/insecticid	1,0-(FE)	QuEChERS	GC-MS	0.01-0.1	1

	izomeri (suma)		0.05-(RO O 12/2008)			0.84	2
						0,005	21
						0.0025	29
				LLE	GC-MS	0.05	11
				QuEChERS – modificata	GC-MS	0.001	13(miere)
				LLE, SPE	GC-MS	0,02	14 (miere)
						0.00003	19
				MSPD	GC-MS	0,010	20
						0.08	30
				LLE, GPC	GC-ECD	0,005	22
					GC-MS	0,02	22
				LE-GPC	GC-MS	0.05-0.12	31
27.	Ciprodinil	anilin-pirimidine/fungicid	0.05-PM, condimente (EU)	QuEChERS	GC-MS	0.01-0.1	1
			0.05-(RO O 12/2008)		LC-MS/MS	0.01-0.02	1, 6, 9
						0.05	8
						0.005-0.007	23, 24
				QuEChERS - modificata	GC-MS	0.005	13 (miere)

28.	Cihalotrin lambda*	piretroid/insecticid	1,0-(FE) 0.02-(RO O 12/2008)	QuEChERS QuEChERS – modificata LLE, SPE LLE MSPD	GC-MS GC-MS GC-MS GC-ECD GC-MS	0.01-0.1 0,005 0.001 0.0001 0.02 0,00005 0.03 0.005	1 21 29 13(miere) 14 (miere) 19 15 20
29.	Clorfenvinfos*	OP /acaricid	0.5-(FE) 0.02-(RO O 12/2008)	QuEChERS QuEChERS – modificata LLE, SPE MSPD	GC-MS LC-MS/MS GC-MS GC-MS GC-MS	0.01-0.1 0.28 0.01-0.02 0.001-0.002 0,006 0.00002 0,006	1 2 1 24 13(miere) 19 20
30.	Clorotalonil	OC/fungicid	0.1-PM, condimente (EU) 50-hamei uscat(EU)	QuEChERS	GC-MS	0.01-0.1 0,005-0,01	1, 7, 9 21

			0.01-(RO O 12/2008)	QuEChERS – modificata LLE, SPE	GC-MS GC-MS	0.001 0,02	13(miere) 14 (miere)
31.	Clorpirifos*	OP/insecticid	0.2-(FE) 0.05-(RO O 12/2008)	QuEChERS LLE QuEChERS – modificata LLE, SPE LLE MSPD	GC-MS GC-MS GC-MS GC-MS GC-µECD GC-ECD GC-MS	0.01-0.1 0.07 0,005-0.01 0.015 0.0001 0,02 0.0018-0.0062 0.015 0,007	1, 5 2 21 11 13(miere) 14(miere) 18 15 20
32.	Clorpirifos metil*	OP/insecticid	0.1-(FE) 0.05-(RO O 12/2008)	QuEChERS LLE, SPE	GC-MS LC-MS/MS GC-MS GC-µECD	0.01-0.1 0.046 0,005-0,01 0.007-0.035 0.02 0.0022-0.0023	1, 5 2 21 24 14(miere) 18

				MSPD	GC-MS GC-MS	0.00003 0.008	19 20
33.	Clorprofam	carbamat/erbicid	0.1-PM, condimente (EU) 0.05-(RO O 12/2008)	QuEChERS MSPD LLE, GPC	GC-MS LC-MS/MS GC-MS GC-NPD GC-MS	0.01-0.1 0.001 0.005 0.02 0.003	1 24 20 22 22
34.	Clortal-dimetil*	acid ftalic derivat/erbicid	0.01-(FE) 0.01-(RO O 12/2008)				
35.	Clotianidin (suma cu tiametoxam)	neonicotinoid/ insecticid	0.05-PM, condimente (EU) 0.05-(RO O 12/2008)	QuEChERS	LC-MS/MS	0.01	4
36.	Clozolinate	oxazol/fungicid	0.1-PM, condimente (EU) 0.05-(RO O 12/2008)	QuEChERS	GC-MS	0.01-0.1	1
37.	Ciproconazol	conazol/fungicid	0.05-PM, condimente (EU) 0.05-(RO O 12/2008)	QuEChERS LLE, SPE MSPD	GC-MS LC-MS/MS GC-MS GC-MS	1.23 0.01-0.02 0.001-0.002 0,02 0,004	1 1, 4 24 14 (miere) 20
38.	DDT* (suma de	OC/insecticid	1.0-(FE)	QuEChERS	GC-MS	0.01-0.1	1, 5, 7

	izomeri)		0.05-(RO O 12/2008)			0.12	2
						0.002-0.004	3, 29
				QuEChERS – modificata	GC-MS	0.001-0.002	10, 13 (miere
				LLE	GC-MS	0.0016	16
				LLE, SPE	GCμECD	0.0037-0.013	18
					GC-MS	0.00001	19
				MSPD	GC-MS	0.003	20
				LE-GPC	GC-MS	0.001-0.003	31
39.	Diazinon*	OP/insecticid	0.5-(FE)	QuEChERS	GC-MS	0.01-0.1	1, 5, 7, 9
			0.01-(RO O 12/2008)			0.001	29
					LC-MS/MS	0.13	2
						0.01-0.02	1
						0.0002-0.0005	24
				QuEChERS modificata	GC-MS	0.0033	10, 13(miere)
				LLE, SPE	GC-MS	0.02	14 (miere)
						0.00003	19
				LLE	GC-ECD	0.03	15

				MSPD	GC-MS	0.009	20
				LE-GPC	GC-MS	0.007	31
40.	Deltametrin*	piretroid/insecticid	0.5-(FE)	QuEChERS	GC-MS	0.01-0.05	1
			0.05-(RO O 12/2008)			0.48	2
						0,005	21
				QuEChERS – modificata	GC-MS	0.02	13 (miere)
				LLE, SPE	GC-MS	0.00002	19
				MSPD	GC-MS	0.008	20
						0.08	30
				LLE, GPC	GC-ECD	0,002	22
					GC-MS	0,02	22
				LE-GPC	GC-MS	0.007	31
41.	Diclorfention	orgaonotiofosfat/ insecticid	0.01-(EU)	LLE, SPE	GC-MS	0.00001	19
				MSPD	GC-MS	0,004	20
42.	Diclofluanid	fenilsulfamida/fungicid	0.1-(FE)	QuEChERS	GC-MS	0.05	1
			0.01-toate matricele (EU)			0.01	7
					LC-MS/MS	0.01-0.025	1, 6, 24
				MSPD	GC-MS	0,004	20

43.	Dicloran	cloro-nitroanilina/fungicid	0.01-PM, condimente (EU) 0.1-(RO O 12/2008	QuEChERS LLE, SPE MSPD	GC-MS LC-MS/MS GC-MS GC-MS	0.01-0.05 0.025 0.00003 0.008	1 1 19 20
44.	Diclorvos*	OP/ insecticid	1-(FE) 0.01-(RO O 12/2008)	QuEChERS LLE, SPE LE, GPC	GC-MS LC-MS/MS GC-MS GC-µECD GC-MS	0.05 0.19 0.01 0.005 0.01 0.005 0.02 0.00002 0.0049-0.0051 0.0035	1 2 5, 7 29 4, 6 24 14 (miere) 19 18 31
45.	Dicofol*	OC/acaricid	0.5-(FE) 0.02-(RO O 12/2008)	QuEChERS QuEChERS – modificata LLE, SPE	GC-MS GC-MS GC-MS	0.01-0.1 0,005 0.0004 0.02	1 21, 29 13 (miere) 14(miere)

						0.00002	19
46.	Dicrotofos	OP/ insecticid	0.01-toate matricele (EU)	QuEChERS MSPD	GC-MS LC-MS/MS GC-MS	0.13 0.01-0.02 0.007	1 1 20
47.	Dietofencarb	carbamat /fungicid	0.05-PM, condimente (EU) 0.05-(RO O 12/2008)	QuEChERS	GC-MS LC-MS/MS	0.05-0.1 0.01-0.02 0.0005-0.001	1 1 24
48.	Difenilamina	amina aromatica/insecticid	0.05-PM, condimente (EU) 0.05-(RO O 12/2008)	QuEChERS QuEChERS – modificata MSPD	GC-MS LC-MS/MS GC-MS GC-MS	0.025-0.5 0.01-0.05 0.0001-0.0005 0,002 0.005	1 1 24 13 (miere) 20
49.	Difenoconazol	triazol/fungicid	0.05-ceai, cafea, cacao, hamei 0.3-seminte 20-PM, condimente (EU) 0.05-(RO O 12/2008)	QuEChERS QuEChERS - modificata	GC-MS LC-MS/MS GC-MS	0.05 0.01-0.025 0.0003-0.0005 0.01	1 1, 4 24 13 (miere)
50.	Diflubenzuron	benzamide/insecticid	0.05-PM, condimente (EU)	QuEChERS	LC-MS/MS	0.01-0.05	1

			1.0-(RO O 12/2008	QuEChERS - modificata	GC-MS	0.006 0,01	24 13 (miere)
51.	Dimetoat* (suma cu ometoat)	OP/insecticid	0.1-(FE) 0.02-(RO O 12/2008)	QuEChERS LLE, SPE MSPD LE-GPC	GC-MS LC-MS/MS GC-µECD GC-MS GC-MS LC-MS/MS GC-MS	0.064 0,005-0,01 0.01-0.02 0.0007 0.0058-0.0059 0.00002 0.004 0.00014 0.004 0.003-0.006	1 21, 29 1, 4 24 18 19 20 25 30 31
52.	Disulfoton	OP/insecticid, acaricid	0.05-PM, condimente (EU) 0.02-(RO O 12/2008	QuEChERS QuEChERS modificata LLE, SPE MSPD	GC-MS LC-MS/MS GC-MS GC-µECD GC-MS	0.05 0.005-0.01 0.0027 0.0421-0.0428 0.00003	1 24 10 18 19

					GC-MS	0.004	20
53.	Diniconazole	azol/fungicid	0.05-PM, condimente (EU) 0.05-(RO O 12/2008)	QuEChERS	GC-MS LC-MS/MS	0.025-0.25 0.01-0.02 0.001	1 1 24
54.	Endosulfan* (suma de endosulfan alfa, beta si sulfat)	OC/ insecticid	3.0-(FE) 0.05-(RO O 12/2008)	QuEChERS QuEChERS – modificata LLE LLE, SPE MSPD	GC-MS GC-MS GC-MS GC-ECD GC-MS GC-µECD GC-MS	0.01-0.1 0.12 0.002 0,005 0.0001-0.0096 0.05 0.0075 0.02 0.00009 0.0011-0.0024 0,005 0.03-0.04	1, 5, 7, 12 2 3 21 10, 13 (miere) 11 15 14 (miere) 19 18 20 30
55.	Endrin*	OC/insecticid	0.05-(FE) 0.01-(RO O 12/2008)	QuEChERS	GC-MS	0.048 0.002	2 3

				QuEChERS – modificata LLE LLE, SPE MSPD	GC-MS GC-MS GC-MS GC-MS	0,005 0.003 0.00004 0.00002 0,004	21 10 16 19 20
56.	EPN	fosfonotionate/ insecticid	0.05-(RO O 12/2008)	QuEChERS LLE, SPE MSPD	GC-MS LC-MS/MS GC-MS GC-MS	0.05 0.01-0.03 0.00004 0.005	1 1, 24 19 20
57.	Epoxiconazol	azoli/fungicid	0.05-PM, condimente (EU) 0.05-(RO O 12/2008	QuEChERS	GC-MS LC-MS/MS	0.025-0.4 0.01-0.02	1 1, 4, 24
58.	Etefon	OP/erbicid	0.1-PM, condimente (EU) 0.05-(RO O 12/2008)	LLE	LC-MS/MS	0.01	27
59.	Etion*	OP/ insecticid	2 – (FE) 0.05-(RO O 12/2008)	QuEChERS QuEChERS –	GC-MS LC-MS/MS	0.01-0.1 0.24 0.001 0.01 0.001-0.005	1, 7 2 2 1 24

				modificata	GC-MS	0.0025	10
				SPE, GPC	GC-FPD	0.015	11
				LLE, SPE	GC-MS	0,02	14 (miere)
						0.00001	19
				MSPD	GC-MS	0.007	20
				LE-GPC	GC-MS	0.004	31
60.	Etoprofos	OP/ insecticid, nematocid	0.02-PM, condimente (EU)	QuEChERS	GC-MS	0.01-0.1	1
			0.02-(RO O 12/2008)		LC-MS/MS	0.01	1, 6
						0.05	8
						0.002-0.005	23, 24
				LLE, SPE	GC-MS	0.00005	19
				MSPD	GC-MS	0.005	20
61.	Etirimol	pirimidine/fungicid	0.02-PM, condimente (EU)	QuEChERS	LC-MS/MS	0.045-0.05	24
			0.05-(RO O 12/2008)				
62.	Etofenprox	piretroid/ insecticid	0.01-PM, condimente (EU)	QuEChERS	GC-MS	0.01-0.1	1
			1 -(RO O 12/2008)		LC-MS/MS	0.01-0.02	1
				MSPD	GC-MS	0,006	20
63.	Etrimfos*	organotiofosfat/insecticid	0.01- (EU)	QuEChERS	GC-MS	0.05	1
					LC-MS/MS	0.0007-0.005	24

				MSPD	GC-MS	0.005	20
64.	Fenamifos	OP/ insecticid	0.05-PM, condimente (EU) 0.02 -(RO O 12/2008)	QuEChERS MSPD	GC-MS LC-MS/MS GC-MS	0.025-0.05 0.01 0.0005-0.001 0,008	1 1 24 20
65.	Fenarimol	pirimidina/fungicid	0.05-PM, condimente (EU) 0.02 -(RO O 12/2008)	QuEChERS MSPD LLE, GPC	GC-MS LC-MS/MS GC-MS GC-NPD GC-MS	0.01-0.1 0.01-0.02 0.005-0.006 0,004 0.005 0.01	1 1 24 20 22 22
66.	Fenclorfos*	organotiofosfat/insecticid	0.1-(FE) 0.01-(RO O 12/2008)	QuEChERS MSPD	GC-MS GC-MS	0.05 0.0005 0.006	1 29 20
67.	Fenhexamid	anilida/ fungicid	0.1-PM, condimente (EU) 5-10 -maces, dud, paducel, soc (RO O 12/2008) 0.05 -(RO O 12/2008)	QuEChERS QuEChERS-modificata	GC-MS LC-MS/MS GC-MS	0.025 0.01-0.02 0.005	1 1, 4 13 (miere)
68.	Fenoxicarb	carbamat/ insecticid	0.05-PM, condimente (EU)	QuEChERS	LC-MS/MS	0.01	4

			0.05 -(RO O 12/2008) 2- citrice	 LLE, SPE LLE, GPC	 GC-MS GC-NPD GC-MS	0.001 0.00007 0.01 0.005	24 19 22 22
69.	Fenitrotion*	OP/insecticid	0.5-FE 0.01-(RO O 12/2008)	QuEChERS LLE, SPE MSPD	GC-MS LC-MS/MS GC-MS GC-MS	0.01-0.1 0.014 0,005-0,01 0.01-0.02 0,02 0.00007 0.009	1 2 21, 29 1 14 (miere) 19 20
70.	Fenpropatrin*	piretroid/ insecticid	0.03 – (FE) 0.01-(RO O 12/2008)	QuEChERS QuEChERS - modificata	GC-MS LC-MS/MS GC-MS	0.01-0.1 0.001 0.01-0.02 0.005-0.05 0.0004	1 0.001 1 24 13 (miere)
71.	Fensulfotion (suma de metaboliti)*	organotiofosfat/insecticid	0.05 – (FE)				
72.	Fenpropimorf	morfolina/ fungicid	0.1-PM, condimente (EU)	QuEChERS	GC-MS	0.01	1

			0.05 -(RO O 12/2008)		LC-MS/MS	0.01-0.02	1, 4, 24
				LLE	GC-ECD	0.003	15
73.	Fention*	OP/ insecticid	0.05 (FE)	QuEChERS	GC-MS	0.01-0.1	1
			Citrice 3-(RO O 12/2008)		LC-MS/MS	0.01-0.02	1
			0.01 -(RO O 12/2008)			0.005-0.01	24
				LLE, SPE	GC-MS	0,02	14 (miere)
						0.00003	19
				MSPD	GC-MS	0.006	20
74.	Fenvalerat*	piretroid/ insecticid	1.5 (FE)	QuEChERS	GC-MS	0.01-0.1	1
			0.02 -(RO O 12/2008)			1.4	2
						0.003	29
				LLE, SPE	GC-MS	0.00005	19
				MSPD	GC-MS	0.007	20
				LLE, GPC	GC-ECD	0,005	22
					GC-MS	0,02	22
				LE-GPC	GC-MS	0.007-0.02	31
75.	Esfenvalerat	piretroid/ insecticid	0.05-PM, condimente (EU)	QuEChERS	GC-MS	0.01-0.1	1
			0.02 -(RO O 12/2008)	QuEChERS – modificata	GC-MS	0.0005	13 (miere)

				MSPD	GC-MS	0.009	20
76.	Flucitrinat*	piretroid/acaricid, insecticid	0.05 (FE) 0.05 -(RO O 12/2008)	QuEChERS	GC-MS	0.01-0.1	1
77.	Fludioxonil	fenilpirol/ fungicid	0.05-PM, condimente (EU) 0.05 -(RO O 12/2008)	QuEChERS	GC-MS LC-MS/MS	0.01-0.1 0.01-0.02 0.005-0.01	1 1, 4 24
78.	Flufenoxuron	benzofenyl uree/ insecticid	0.05-PM, condimente (EU) 0.05 -(RO O 12/2008)	QuEChERS	GC-MS LC-MS/MS	0.025 0.01-0.02 0.005-0.009	1 1 24
79.	Fluquinconazol	triazol/ fungicid	0.05-PM, condimente (EU) 0.05 -(RO O 12/2008)	QuEChERS	GC-MS LC-MS/MS	0.05-0.25 0.01-0.02	1 1, 4
80.	Flusilazol	triazol/ fungicid	0.05-PM, condimente (EU) 0.02 -(RO O 12/2008)	QuEChERS	GC-MS LC-MS/MS	0.01-0.1 0.01-0.02 0.00001	1 1 24
81.	Flutriafol	triazol/ fungicid	0.05-PM, condimente (EU) 0.05 -(RO O 12/2008)	QuEChERS	LC-MS/MS	0.01 0.001	4 24
82.	Folpet	ftalimida/fungicid	0.05-PM, condimente (EU) 150-hamei uscat (EU) 0.02 -(RO O 12/2008)	QuEChERS	GC-MS LC-MS/MS	0.05-0.1 0.01 0.005-0.05	1 9 24

				MSPD	GC-MS	0,012	20
83.	Fonofos*	OP/insecticid	0.05 (FE)	QuEChERS	GC-MS	0.03-0.5	1
						0.048	2
					LC-MS/MS	0.01-0.02	1
						0.001-0.005	24
				LLE, SPE	GC-MS	0.00006	19
				MSPD	GC-MS	0,003	20
84.	Forat	organotiofosforic/ insecticid	0.05-PM, condimente (EU)	QuEChERS	GC-MS	0.01-0.1	1
			0.05 -(RO O 12/2008)			0.002	29
					LC-MS/MS	0.01	1
						0.008-0.025	24
				MSPD	GC-MS	0,003	20
85.	Formotion	organotiofosforic/ insecticid	0.05-PM, condimente (EU)	MSPD	GC-MS	0,004	20
			0.02 -(RO O 12/2008)				
86.	Fosalon*	organotiofosforic/ insecticid	0.1 (FE)	QuEChERS	GC-MS	0.01-0.1	1
			0.05 -(RO O 12/2008)			0.09	2
					LC-MS/MS	0.01-0.02	1
						0.001-0.005	24
				QuEChERS –	GC-MS	0,01	13 (miere)

				modificata MSPD	 GC-MS	 0,005	 20
87.	Fosmet*	organotiofosforic/ insecticid	0.05 (FE) 0.1-PM, condimente (EU) 0.2 -(RO O 12/2008)	QuEChERS QuEChERS – modificata LLE, SPE	GC-MS LC-MS/MS GC-MS GC-MS	0.01-0.1 0.01-0.02 0.005-0.007 0.002 0.00003	1 1, 4 24 13 (miere) 19
88.	Furatiocarb	carbamat/ insecticid	0.05-PM, condimente (EU) 0.05 -(RO O 12/2008)	QuEChERS LLE, SPE MSPD	LC-MS/MS GC-MS GC-MS	0.0001-0.0005 0.00004 0,005	24 19 20
89.	Hexaclorciclohexan (lindan)*	OC/ insecticid	0.3 (FE) 0.02-PM, condimente (EU) 0.05 -(RO O 12/2008)	QuEChERS QuEChERS modificata LLE, SPE	GC-MS GC-MS GC-MS	0.01-0.1 0.048 0.002 0,005 0.001 0.003 0,02	1, 5 2 3 21 29 10 14 (miere)

						0.00001	19
					GC-µECD	0.0042	18
				LLE	GC-ECD	0.015	15
					GC-MS	0.008	16
				MSPD	GC-MS	0,003	20
				LE-GPC	GC-MS	0.004	31
90.	Heptaclor (suma de izomeri)*	OC/insecticid	0.05 (FE)	QuEChERS	GC-MS	0.03	1
			0.01 -(RO O 12/2008)			0.048	2
						0.0008-0.001	3, 29
						0.01	5
				QuEChERS – modificata	GC-MS	0.0036	10
				LLE	GC-MS	0.041	16
				LLE, SPE	GC-µECD	0.0002-0.0008	18
91.	Hexaclorbenzen*	OC/fungicid	0.1 (FE)	QuEChERS	GC-MS	0.028	1
			0.01 -(RO O 12/2008)			0.05	2
				QuEChERS – modificata	GC-MS	0,00001	13 (miere)
				LLE, SPE	GC-MS	0.02	14 (miere)

				MSPD	GC-MS	0,00005 0,008	19 20
92.	Hexaclorciclohexan (izomeri, altii decat γ)*	OC/insecticid	0.3 (FE) 0.01 -(RO O 12/2008)	QuEChERS QuEChERS modificata LLE, SPE MSPD LE-GPC	GC-MS GC-MS GC-μECD GC-MS GC-MS	0.03 0.048 0.002 0.001-0.003 0.001-0.003 0.0085-0.0032 0,003 0.001-0.008	1 2 3 29 10 18 20 31
93.	Hexaconazol	triazol/ fungicid	0.05-PM, condimente (EU) 0.02 -(RO O 12/2008)	QuEChERS	GC-MS LC-MS/MS	0.025-0.5 0.01-0.02 0.0006-0.001	1 1, 4 24
94.	Hexitiazox	tiazolidina/ insecticid	0.05-PM, condimente (EU) 0.5 -(RO O 12/2008)	QuEChERS	GC-MS LC-MS/MS	1.11 0.01-0.02 0.001-0.002	1 1, 4 24
95.	Imazalil	azol/ fungicid	0.1-PM, condimente (EU) 0.02 -(RO O 12/2008)	QuEChERS	LC-MS/MS	0.01 0.05	4, 24 8

						0.005	23
				LLE, SPE	GC-MS	0,02	14 (miere)
				LLE	GC-NPD	0.15	15
				MSPD	GC-MS	0,004	20
96.	Imidacloprid	neonicotinoid/ insecticid	0.05-PM, condimente (EU)	QuEChERS	LC-MS/MS	0.01-0.02	1, 4, 6
			0.05 -(RO O 12/2008)			0.05	8
						0.005	23
						0.01	24
				SPE, GPC	GC-FPD, GC-MS	0.015	11
				QuEChERS - modificata	GC-MS	0.002	13 (miere)
97.	Iprodiona	imidazol/fungicid	0.1-PM, condimente (EU)	QuEChERS	GC-MS	0.01-0.1	1
			0.02 -(RO O 12/2008)		LC-MS/MS	0.01-0.02	1, 24
				QuEChERS – modificata	GC-MS	0,01	13 (miere)
				LLE	GC-ECD	0.03	15
				MSPD	GC-MS	0,008	20
					LC-MS/MS	0.0002	25
98.	Isoprocarb	carbamat/ insecticid	0.01 - EU	MSPD	GC-MS	0,007	20

99.	Kresoxim-metil	metoxiiminoacetat de strobilurin/fungicid	0.1-PM, condimente (EU) 0.05 -(RO O 12/2008)	QuEChERS	GC-MS LC-MS/MS	0.01-0.1 0.01-0.025 0.05 0.005	1 1, 4, 6 8 23, 24
				LLE MSPD	GC-ECD GC-MS	0.075 0,005	15 20
100.	Malation (suma cu malaoxon)*	OP/ insecticid	1 (FE) 0.02 – fructe si legume (EU)	QuEChERS	GC-MS	0.01-0.1 0.8 0,005-0,01 0.001	1 2 21 29
					LC-MS/MS	0.01-0.02 0.0005-0.002	1 24
				QuEChERS modificata	GC-MS	0.0036 0.001	10 13 (miere)
				LLE, SPE	GC-MS	0.02 0.00003	14 (miere) 19
				LLE	GC-µECD GC-NPD	0.006 0.375	18 15
				MSPD	GC-MS	0,008	20

101.	Mecarbam*	organotiofosfat/insecticid acaricid	0.05 (FE) 0.05 -(RO O 12/2008)	QuEChERS MSPD	GC-MS LC-MS/MS GC-MS	0.01-0.1 0.01-0.025 0.001-0.002 0,009	1 1 24 20
102.	Metalaxil	benzenoid/ fungicid	0.1-PM, condimente (EU) 0.05 -(RO O 12/2008)	QuEChERS LLE, SPE MSPD	GC-MS LC-MS/MS GC-MS GC-MS	0.05-0.1 0.01-0.02 0.001-0.002 0.00005 0,009	1 1 24 19 20
103.	Metacrifos*	organotiofosfat/insecticid, acaricid	0.05 (FE) 0.05 -(RO O 12/2008)	LLE MSPD	GC-NPD GC-MS	0.05 0,004	15 20
104.	Metamidofos*	OP/ insecticid	0.05 (FE) 0.01 -(RO O 12/2008)	QuEChERS MSPD LE, GPC	GC-MS LC-MS/MS GC-MS GC-MS	0.05 0.02 0.01-0.02 0.05 0,005 0.003	1 29 1, 4, 6 8 20 31
105.	Metconazol	azol/ fungicid	0.02-PM, condimente (EU) 0.02 -(RO O 12/2008)	QuEChERS	LC-MS/MS	0.01 0.0005-0.001	4 24

106.	Metidation*	tiadiazol/insecticid	0.2 (FE) 0.1-PM, condimente (EU) 0.02 -(RO O 12/2008)	QuEChERS QuEChERS – modificata LLE, SPE MSPD LE-GPC	GC-MS LC-MS/MS GC-MS GC-MS GC-MS LC-MS/MS GC-MS	0.05 0.001 0.01-0.02 0.0005-0.001 0.001 0,02 0,006 0.00016 0.004	1 29 1 24 13 (miere) 14(miere) 20 25 31
107.	Metiocarb (suma de metiocarb si metiocarb sulfoxid, metiocarb sulfona)	carbamat/ insecticid	0.1-PM, condimente (EU) 0.2 -(RO O 12/2008)	QuEChERS QuEChERS modificata MSPD	LC-MS/MS GC-MS GC-MS	0.01 0.0009-0.001 0.0105 0,006	4 24 10 20
108.	Metomil (suma de metomil si tiodicarb)	carbamat/ insecticid	0.1-PM, condimente (EU) 0.05 -(RO O 12/2008)	QuEChERS LLE, SPE	LC-MS/MS GC-MS	0.01-0.02 0.001 0.0001	1, 4 24 19
109.	Metoxiclor*	OC/ insecticid	0.05 (FE)	QuEChERS	GC-MS	0.05-0.1	1

			0.01 -(RO O 12/2008)	QuEChERS – modificata LLE, SPE LLE MSPD	GC-MS GC-MS GC-MS GC-MS	0.001 0,02 0.015 0,004	10 14(miere) 16 20
110.	Mevinfos	OP/insecticid, acaricid	0.02-PM, condimente (EU) 0.01 -(RO O 12/2008)	QuEChERS LLE, SPE MSPD	GC-MS LC-MS/MS GC-MS GC-MS	0.01-0.1 0.02 0.00009 0,007	1 1 19 20
111.	Mirex*	OC/ insecticid	0.01 (FE) 0,01 (EU)	LLE, SPE	GC-MS	0.00001	19
112.	Monocrotofos*	OP/insecticid	0.1 (FE) 0.2 -(RO O 12/2008)	QuEChERS MSPD LE-GPC	GC-MS LC-MS/MS GC-MS GC-MS	0.1 0.002 0.01-0.02 0,007 0.005	1 29 1, 4 20 31
113.	*O*-fenilfenol	hidrocarbura aromatica/ fungicid	0.1-PM, condimente (EU) 5 – citrice, 0.05 – altele (EU)	QuEChERS MSPD	GC-MS GC-MS	0.01-0.1 0,006	1, 5, 7 20

114.	Oxadixil	oxazol/ fungicid	0.01 (EU)	QuEChERS	GC-MS	0.01-0.5	1
					LC-MS/MS	0.01-0.02	1
						0.005-0.0053	24
				MSPD	GC-MS	0,003	20
115.	Oxamil	carbamat/ insecticid	0.02-PM, condimente (EU)	QuEChERS	LC-MS/MS	0.01-0.025	1, 4
			0.01 -(RO O 12/2008)			0.045-0.05	24
				QuEChERS-modificata	GC-MS	0,005-0.012	10, 13 (miere)
116.	Paration*	OP/ insecticid si acaricid	0.5-FE	QuEChERS	GC-MS	0.01-0.1	1
			0.05 -(RO O 12/2008)			0.45	2
						0,005-0,01	21, 29
					LC-MS/MS	0.01-0.02	1
						0.005-0.01	24
				QuEChERS modificata	GC-MS	0.0012	10
				LLE	GC-ECD	0.03	15
				LLE, SPE	GC-µECD	0.0024-0.0026	18
				MSPD	GC-MS	0,004	20
				LE-GPC	GC-MS	0.005	31

117.	Paration-metil (suma cu paraoxon metil)*	OP/ insecticid	0.2 (FE) 0.02 -(RO O 12/2008)	QuEChERS	GC-MS	0.01-0.1	1
						0.1	2
						0.0025	29
					LC-MS/MS	0.01-0.02	1
						0.01	24
				QuEChERS modificata	GC-MS	0.0039	10
				LLE, SPE			
					GC-MS	0,02	14(miere)
					GC-µECD	0.0027-0.003	18
				MSPD	GC-MS	0,003	20
						0.06	30
				LE-GPC	GC-MS	0.011	31
118.	Penconazol	azol / fungicid	0.1-PM, condimente (EU) 0.05 -(RO O 12/2008)	QuEChERS	GC-MS	0.05	1
					LC-MS/MS	0.01	1, 4, 6
						0.05	8
						0.005	23
						0.005-0.01	24
				LLE	GC-ECD	0.03	15
119.	Pendimetalin*	dinitroanilina/ ierbicid	0.1- (FE) 0.2- 0.05 -(RO O	QuEChERS	GC-MS	0.01-0.1	1

			12/2008)		LC-MS/MS	0.01-0.02	1
						0.002-0.005	24
				QuEChERS – modificata	GC-MS	0.001	13 (miere)
				LLE, SPE	GC-MS	0,02	14(miere)
				LLE	GC-MS	0.012	17
				MSPD	GC-MS	0,005	20
120.	Pentacloroanisol*	reziduu persistent neclasificat ca pesticid	0.01 (FE)				
121.	Permetrin (suma de izomeri)*	piretroid/ insecticid, acaricid	1- (FE) 0.05 -(RO O 12/2008)	QuEChERS	GC-MS	0.01-0.1	1, 5, 7, 9
						0.96	2
						0,005	21
				QuEChERS – modificata	GC-MS	0.01	13 (miere)
				LLE, SPE	GC-MS	0.00002	19
				MSPD	GC-MS	0,005	20
				LLE, GPC	GC-ECD	0,003	22
					GC-MS	0,02	22
122.	Piperonil butoxid*	sinergist	3- (FE)	QuEChERS	GC-MS	0.01-0.05	1

						2.42	2
					LC-MS/MS	0.01-0.02	1
				MSPD	GC-MS	0,018	20
123.	Piraclostrobin	pirazol/fungicid	0.05-PM,condimente (EU)	QuEChERS	LC-MS/MS	0.01-0.02	1, 4
			10-hamei			0.0001-0.0005	24
			0.02- (RO O 12/2008)	QuEChERS - modificata	GC-MS	0,001	13 (miere)
124.	Pirazofos	OP/fungicid, insecticid	0.1 (UE)	QuEChERS	GC-MS	0.05	1
			0.05 -(RO O 12/2008)		LC-MS/MS	0.01-0.02	1
						0.0001-0.0005	24
				LLE, SPE	GC-MS	0,02	14(miere)
				MSPD	GC-MS	0,004	20
125.	Pirimetanil	pirimidina/ fungicid	0.1-PM, condimente (EU)	QuEChERS	GC-MS	0.05-0.1	1
			10- citrice (EU, RO O 12/2008)		LC-MS/MS	0.01-0.02	1
						0.005-0.008	24
			0.05-5- altele (EU)	QuEChERS - modificata	GC-MS	0.002	13 (miere)
126.	Pirimicarb (suma de	carbamat / insecticid	0.05- 5-PM,condimente (EU)	QuEChERS	GC-MS	0.05-0.01	1
					LC-MS/MS	0.01-0.02	1

	pirimicarb si desmetil pirimicarb)		1- (RO O 12/2008)	LLE LLE, SPE MSPD	GC-NPD GC-MS GC-MS LC-MS/MS	0.002-0.008 0.15 0.00005 0,003 0.00019	24 15 19 20 25
127.	Pirimifos-etil*	OP/ insecticid	0.05 (FE)	QuEChERS LLE, SPE MSPD	LC-MS/MS GC-MS GC-MS	0.0001 0.00005 0,003	24 19 20
128.	Pirimifos-metil (suma de izomeri)*	OP/ insecticid	4 (FE) 0.05 -(RO O 12/2008)	QuEChERS LLE, SPE LLE MSPD	GC-MS LC-MS/MS GC-MS GC-NPD GC-MS	0.01-0.1 0.9 0,005-0,01 0.01-0.02 0.0001 0,02 0.15 0,003 0.025	1 2 21 1 24 14(miere) 15 20 30
129.	Procimidona*	dicarboximide/fungicide	0.1(FE) 0.02 (RO O 12/2008)	QuEChERS	GC-MS	0.01-0.1 0.001	1 29

					LC-MS/MS	0.008-0.03	24
				LLE, SPE	GC-MS	0,02	14(miere)
				LLE	GC-ECD	0.075	15
				MSPD	GC-MS	0,003	20
130.	Profenofos*	OP/insecticid	0.1(FE)	QuEChERS	GC-MS	0.05	1
			0.05 (RO O 12/2008)			0.0025	29
					LC-MS/MS	0.01-0.02	1
						0.005	24
				LLE, SPE	GC-MS	0,02	14
				MSPD	GC-MS	0,012	20
131.	Propargit	diafenthiuron/insecticid	0.02-PM,condimente (EU)	QuEChERS	GC-MS	0.05	1
			100-hamei		LC-MS/MS	0.01-0.02	1, 4
			3- (RO O 12/2008)	MSPD	GC-MS	0,004	20
132.	Propetamfos	fosfoamidotioat/acaricid, insecticid	0.01-(EU)	-	GC-MS	0.1	26
133.	Propiconazol	triazol /fungicid	0.1-PM,condimente (EU)	QuEChERS	GC-MS	0.05	1
			0.05- (RO O 12/2008)		LC-MS/MS	0.01-0.02	1
						0.0005-0.001	24
				QuEChERS – modificata	GC-MS	0.003	13 (miere)

				LLE, SPE LLE MSPD	 GC-MS GC-NPD GC-MS	 0,02 0.075 0,004	 14(miere) 15 20
134.	Propizamida	amida/erbicid	0.1-PM,condimente (EU) 0.02-alte matrice (EU)	QuEChERS MSPD	GC-MS LC-MS/MS GC-MS	0.01-0.1 0.01-0.02 0.001-0.003 0,004	1 1 24 20
135.	Propoxur	metil carbamate /insecticid	0.1-PM,condimente (EU) 0.05- (RO O 12/2008)	QuEChERS LLE, SPE MSPD	GC-MS LC-MS/MS GC-MS GC-MS LC-MS/MS	1.14 0.01-0.02 0.05 0.0005-0.005 0.00003 0,008 0.00013	1 1, 6, 9 8 23, 24 19 20 25
136.	Protiofos*	OP/insecticid	0.05 (FE) 0.01-(EU)	QuEChERS MSPD	GC-MS LC-MS/MS GC-MS	0.01-0.1 0.01-0.02 0,012	1 1 20
137.	Piridaben	neclasificat/insecticid	0.05-PM,condimente (EU)	QuEChERS	GC-MS	0.05	1

			10-hamei (EU) 0.5- (RO O 12/2008)	 QuEChERS - modificata	LC-MS/MS GC-MS	0.01 0.0001-0.0005 0,001	1 24 13 (miere)
138.	Quinalfos*	organotiofosfat/acaricid, insecticid	0.05 (FE) 0.05- (RO O 12/2008)	QuEChERS MSPD	GC-MS LC-MS/MS GC-MS	0.05 0.01-0.02 0.001 0,006	1 1 24 20
139.	Quinoxifen	quinoline/fungicid	0.05-PM,condimente (EU) 0.5-hamei (EU) 0.02- (RO O 12/2008)	QuEChERS	GC-MS LC-MS/MS	0.01-1 0.01 0.0005-0.001	1 1, 4 24
140.	Quintozen (suma cu pentacloro-anilina)*	OC/fungicid	1 (FE) 0.02- (RO O 12/2008)	QuEChERS LE-GPC	GC-MS GC-MS	0.01-0.1 0.2 0.001 0.009	1 2 29 31
141.	Rotenone	insecticid, acaricid	0.02-PM,condimente (EU) 0.01- (RO O 12/2008)	QuEChERS	LC-MS/MS	0.001	24
142.	S-421*	OC/sinergist	0.02 (FE)				
143.	T-fluvalinat*	piretroid/insecticid	0.05 (FE)	QuEChERS	GC-MS	0.05	1

			10-hamei (EU) 0.01- (RO O 12/2008)	QuEChERS – modificata LLE, SPE MSPD	GC-MS GC-MS GC-MS	0.001 0,02 0,005	13 (miere) 14 (miere) 20
144.	Tebuconazol	triazol/insecticid	50-PM,condimente (EU) 0,05-ceai, cacao 0.05- (RO O 12/2008)	QuEChERS QuEChERS – modificata LLE, SPE MSPD LLE, GPC	GC-MS LC-MS/MS GC-MS GC-MS GC-MS GC-NPD GC-MS	0.05 0.01-0.02 0.0005-0.001 0,003 0,02 0,005 0.01 0.02	1 1 24 13 (miere) 14(miere) 20 22 22
145.	Tebufenpirad	pirazol/insecticid	0.1-PM,condimente (EU) 0.5-hamei (EU) 0.05- (RO O 12/2008)	QuEChERS	GC-MS LC-MS/MS	0.05-0.1 0.01	1 1
146.	Tecnazen*	OC/fungicid	0.05 (FE) 0.05- (RO O 12/2008)	QuEChERS	GC-MS	0.032-0.1	1

147.	Tefluthrin	piretroid/insecticid	0.05-PM,condimente (EU) 0.05-(RO O 12/2008)				
148.	Tetradifon*	difenil/acaricid	0.3 (FE) 0.02- (RO O 12/2008)	QuEChERS LLE, SPE MSPD	GC-MS GC-MS GC-MS	0.01-0.1 0,005-0,01 0.02 0.00005 0,003	1 21 14(miere) 19 20
149.	Tetrametrin	piretroid/insecticid	0.01- (EU)	QuEChERS QuEChERS – modificata LLE, SPE	GC-MS GC-MS GC-MS	0.01-0.1 0,006 0.00002	1 13 (miere) 19
150.	Tetrasul	difenil/acaricid	0.01- (EU)	LLE, SPE	GC-MS	0.02	28
151.	Tiabendazol	Antifungic benzimidazol	0.1-PM,condimente (EU) 5-(RO O 12/2008)	QuEChERS QuEChERS – modificata LLE	LC-MS/MS GC-MS GC-NPD	0.01-0.02 0.05 0.005 0.001-0.006 0,001 0.75	1, 4, 6, 8 8 23 24 13 (miere) 15

				MSPD	GC-MS LC-MS/MS	0,004 0.00015	20 25
152.	Tiametoxam	Insecticid Neonicotinoid	0.05-PM,condimente (EU) 0.2-(RO O 12/2008)	QuEChERS QuEChERS - modificata	LC-MS/MS GC-MS	0.01-0.02 0.005-0.008 0,005	1, 4 24 13 (miere)
153.	Tiofanate-methyl	benzimidazol/fungicid	0.1-PM,condimente (EU) 0.1-(RO O 12/2008)	QuEChERS	LC-MS/MS	0.01	4, 6
154.	Tolclofos-metil	OP/insecticid	0.1-PM,condimente (EU) 0.05-(RO O 12/2008)	QuEChERS	GC-MS LC-MS/MS	0.01-0.1 0.01-0.02	1 1
155.	Triadimenol (suma cu triadimefon)	azol /fungicid	0.2-PM,condimente (EU) 10-hamei (EU) 0.1-(RO O 12/2008)	QuEChERS LLE, SPE LLE MSPD	GC-MS LC-MS/MS GC-MS GC-µECD GC-ECD GC-MS	0.01-0.05 0.01 0.001-0.01 0,02 0.0201-0.0248 0.075 0,003(triadimefon)	1 1, 4 24 14(miere) 18 15 20
156.	Triazofos	OP/ insecticid	0.02-PM,condimente (EU) 0.01-(RO O 12/2008)	QuEChERS	GC-MS LC-MS/MS	0.05 0.01-0.02	1 1

				LLE MSPD	GC-NPD GC-MS	0.0007-0.001 0.15 0,005	24 15 20
157.	Trifloxistrobin	metoxiiminoacetat strobilurin/fungicid	0.05-PM,condimente (EU) 30-hamei (EU) 0.3-(RO O 12/2008)	QuEChERS QuEChERS - modificata	GC-MS LC-MS/MS GC-MS	0.01-0.1 0.01-0.02 0.0005	1 1, 4 13 (miere)
158.	Trifluralin	2,6 dinitroanilina/erbicid	0.05-PM,condimente (EU) 0.1-(RO O 12/2008)	QuEChERS QuEChERS – modificata LLE, SPE LLE MSPD	GC-MS LC-MS/MS GC-MS GC-MS GC-MS GC-MS	0.01-0.1 0.01-0.02 0.001 0,02 0.0144 0,003	1 1 13 (miere) 14(miere) 17 20
159.	Triticonazole	azol/fungicid	0.02-PM,condimente (EU) 0.01-(RO O 12/2008)	QuEChERS	LC-MS/MS	0.01	4
160.	Vinclozolin*	dicarboxiimida/fungicid	0.4 (FE) 0.02- (RO O 12/2008)	QuEChERS QuEChERS – modificata LLE	GC-MS GC-MS	0.01-0.1 0,001	1 13 (miere)

				LLE, SPE MSPD	GC-ECD GC-MS GC-MS	0.075 0.00002 0,006	15 19 20
161.	Zoxamide	benzamida/fungicid	0.05-PM,condimente (EU) 0.02-(RO O 12/2008)	QuEChERS	LC-MS/MS	0.01	4

Unde:*-pesticide prevazute in Farmacopeea europeana , ed VII-pag 242-243; sunt evidentiate cu □

EU- EU Pesticides database (**Pesticide EU-MRLs): http://ec.europa.eu/sanco_pesticides/public**

RO O 12/2008-legislatia romana referitoare la nivelul de reziduuri de pesticide: Monitorul Oficial cu numărul 331 din data de 25 aprilie 2008 (site-ul MAPDR)

OC-pesticide organoclorurate

OP-pesticide organofosforice

LE-extractie in lichid, LLE-extractie lichid-lichid

Bibliografie:

1. SR EN 15662, 2009- Alimente de origine vegetala; Determinarea reziduurilor de pesticide prin GC-MS-MS si/sau LC-MS/MS dupa extractie/partitie cu acetonitril si purificare prin metoda dispersiva SPE-QuEChERS
2. Raport de validare CBA-RV-01/03.2012- Metoda de determinare prin gaz-cromatografie a reziduurilor de pesticide organoclorurate, organofosforice si piretroizi
3. Raport de validare CBA-RV-02/10.2012- Metoda de determinare prin gaz-cromatografie a reziduurilor de pesticide organoclorurate
4. EURL-FV, 2013-Multiresidue Method using QuEChERS followed by GC-QqQ/MS/MS and LC-QqQ/MS/MS for Fruits and Vegetables
5. 5990-4468EN, 2010- Analysis of pesticide residues in apple by GC/MS using Agilent SampliQ QuEChERS kits for pre-injection cleanup http://www.chem.agilent.com/Library/applications/5990-4468EN.pdf
6. 5990-3938EN- Analysis of pesticide residues in apple using Agilent SampliQ QuEChERS European Standard EN kits by LC/MS/MS Detection; http://www.chem.agilent.com/Library/applications/5990-3938EN.pdf
7. 5990-4068EN, 2010-Analysis of pesticide residues in apple using Agilent SampliQ QuEChERS AOAC kits by GC/MS; http://www.chem.agilent.com/Library/applications/5990-4068EN.pdf
8. 5990-4248EN, 2009- Analysis of pesticide residues in spinach using sampliQ QuEChERS AOAC kit by LC/MS/MS Detection; http://www.chem.agilent.com/Library/applications/5990-4248EN.pdf
9. 5990-4247EN, 2009-Optimizing Recoveries of Planar Pesticides in Spinach Using Toluene and Agilent Bond Elut QuEChERS AOAC Kits with Graphitized Carbon; http://www.chem.agilent.com/Library/applications/5990-4247EN.pdf
10. Anna Sadowska-Rociek, Magdalena Surma, Ewa Cies´lik, 2013, Application of QuEChERS Method for Simultaneous Determination of Pesticide Residues and PAHs in Fresh Herbs, Bull Environ Contam Toxicol; 90:508–513
11. Lucía Pareja, Marcos Colazzo, Andrés Pérez-Parada, Silvina Niell, Leonidas Carrasco-Letelier, Natalia Besil, María Verónica Cesio and Horacio Heinzen , 2011, Detection of Pesticides in Active and Depopulated Beehives in Uruguay, *Int. J. Environ. Res. Public Health*; *8*, 3844-3858
12. S. H. G. Brondi, A. N. de Macedo, G. H. L. Vicente, A. R. A. Nogueira, 2011, Evaluation of the QuEChERS Method and Gas Chromatography–Mass Spectrometry for the Analysis Pesticide Residues in Water and Sediment, Bull Environ Contam Toxicol; 86:18–22
13. Christopher A. Mullin, Maryann Frazier, James L. Frazier, Sara Ashcraft, Roger Simonds, Dennis vanEngelsdorp, Jeffery S. Pettis, 2010, High Levels of Miticides and Agrochemicals in North American Apiaries: Implications for Honey Bee Health, , 5(3), e9754, doi:10.1371/journal.pone.0009754
14. Sandra R. Rissato, Ma´rio S. Galhiane, Marcos V. de Almeida, Marli Gerenutti, Benhard M. Apon, 2007, Multiresidue determination of pesticides in honey samples by gas chromatography–mass spectrometry and application in environmental contamination, Food Chemistry, 101(4):1719–1726
15. C.J. Anagnostopoulos and G.E. Miliadis, 2009, Method validation for the determination of pesticide residues in wheat fl our by gas chromatography, *Hellenic Plant Protection Journal*, 2: 15-22
16. Florina Tusa, Zaharie Moldovan and Mircea Vlassa, 2009, Identification and measurement of pesticide contaminants in food products by electron impact GC/MS, Journal of Physics: Conference Series, 182, 012043

17. California Department of Food and Agriculture, Center for Analytical Chemistry, Environmental Analysis Section Determination of Ethalfluralin, Trifluralin, Benfluralin, Prodiamine, Pendimethalin, Oxyfluorfen, and Oryzalin in Surface Water
18. Yawar Latif, S. T. H. Sherazi and M. I. Bhanger, Assessment of Pesticide Residues in Some Fruits Using Gas Chromatography Coupled withMicro Electron Capture Detector, 2011, Pak. J. Anal. Environ. Chem., 12(1):76-87
19. M.T. Selim, M.H. EL-Saeid and I.M. Al- Dossari, 2011, Multi-residues Analysis of Pesticides using Gas Chromatography Mass Spectrometry: I- Leafy Vegetables. *Research Journal of Environmental Sciences, 5: 248-258*
20. Xiao-Gang Chua, Xiao-Zhong Hub, and Hui-Yuan Yaoa, 2005, Determination of 266 pesticide residues in apple juice by matrix solid-phase dispersion and gas chromatography–mass selective detection, Journal of Chromatography A, 1063, 201–210
21. Diana I. Kolberg, Osmar D. Prestes, Martha B. Adaime, Renato Zanella, 2011, Development of a fast multiresidue method for the determination of pesticides in dry samples (wheat grains, flour and bran) using QuEChERS based method and GC–MS, Food Chemistry, 125(4):1436–1442
22. Radim Štepán, Jana Hajšlová, Vladimır Kocourek, Jana Tichá, 2004, Uncertainties of gas chromatographic measurement of troublesome pesticide residues in apples employing conventional and mass spectrometric detectors, Analytica Chimica Acta, 520:245–255
23. Chen-Hao Zhai, Analysis of Pesticide Residues in Green Te**a** Using Agilent Bond Elit QuEChERS EN kit by LC/MS/MS Detection, http://www.chem.agilent.com/Library/applications/5990-6400EN.pdf
24. E. Michael Thurman, Imma Ferrer, Jerry A. Zweigenbaum, Multiresidue Analysis of 301 Pesticides in Food Samples by LC/Triple Quadrupole Mass Spectrometry, Application Note
25. Daniela Perret, Alessandra Gentili, Stefanomarchese, Manuel Sergi, and Giuseppe D'ascenzo, 2002, Validation of a Method for the Determination of Multiclass Pesticide Residues in Fruit Juices by Liquid Chromatography/ Tandem Mass Spectrometry after Extraction by Matrix Solid-Phase Dispersion, JOURNAL OF AOAC INTERNATIONAL, 85(3):724-30
26. http://www.leco.co.za/wp-content/uploads/2011/06/HorizonLECOApp11-08.pdf Table A 1 - Part I: Summary of numbers of samples, sample origins and results
27. EURL Single Residue Methods, Quick Method for the Analysis of Residues of numerous Highly Polar Pesticides in Foods of Plant Origin involving Simulta-neous Extraction with Methanol and LC-MS/MS Determination (QuPPe-Method) Version 7.1, M. Anastassiades; D. I. Kolberg; D. Mack; C. Wildgrube; I. Sigalov; D. Dörk –
28. Julie Fillion, Franc¸Ois Sauve´, and Jennifer Selwyn Multiresidue Method for the Determination of Residues of 251 Pesticides in Fruits and Vegetables by Gas Chromatography/ Mass Spectrometry and Liquid Chromatography with Fluorescence Detection, 2000, JOURNAL OF AOAC INTERNATIONAL, 83(3):698-713
29. Yichen Hu., Li Wan, Jinming Zhan, Fang Yang, Jiliang Cao, 2012- Rapid determination of pesticide residues in Chinese materia medica using QuEChERS sample preparation followed by gas chromatography-mass spectrometry; Acta Pharmaceutica Sinica B2012:2(3):286-293
30. Carmen Ferrer, M. Jose Gomez, Juan F. Garcıa-Reyes, Imma Ferrer, E. Michael Thurman, Amadeo R. Fernandez-Alba, 2005-Determination of pesticide residues in olives and olive oil by matrix solid -phase dispersion followed by gas chromatography/mass spectrometry and liquid chromatography /tandem mass spectrometry; Journal of Chromatography A, (2005)

31. Wan-E Zhuang, Zhen-Bin Gong, 2011: Gel Permeation Chromatography Purification and Gas Chromatography-Mass Spectrometry Detection of Multi-Pesticide Residues in Traditional Chinese Medicine; *American Journal of Analytical Chemistry*, 2012, 3, 24-32