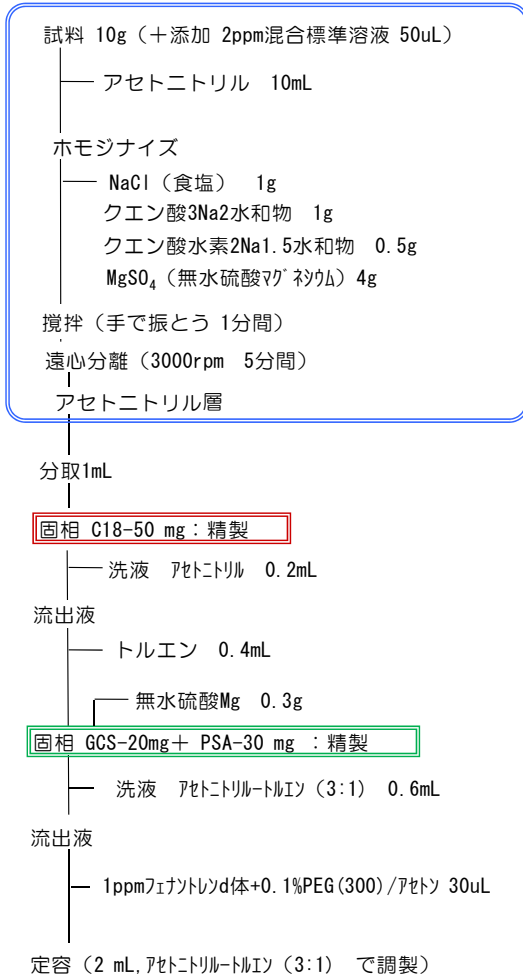


日本梨（二十世紀）MA-GCA1

前処理フロー



目的/実験方法

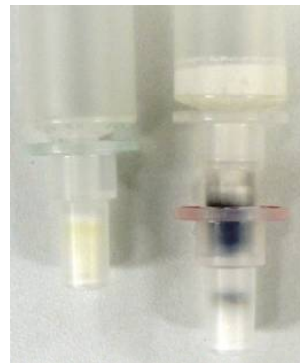
手作業による添加回収試験(GC-A1法)

- 添加濃度 (試料中) : 10ppb
- 最終バイアル中濃度 : 5ppb
- 農薬 : 関東MIX-22, 31, 34, 48, 51
- 検量線 :
 - ・PEG共注入標準溶液、絶対、直線検量線
 - ・1点 : 5ppb
 - ・15ppbフェナントレン体 + 15ppmPEG + 農薬混合標準溶液 (アセトン-ヘキサン)
 - * フェナントレン体は装置の感度評価の目安として使用。
- 測定 : 1 Injection によるSCAN測定
- 測定条件 : 参考資料に従う。

①遠心分離後

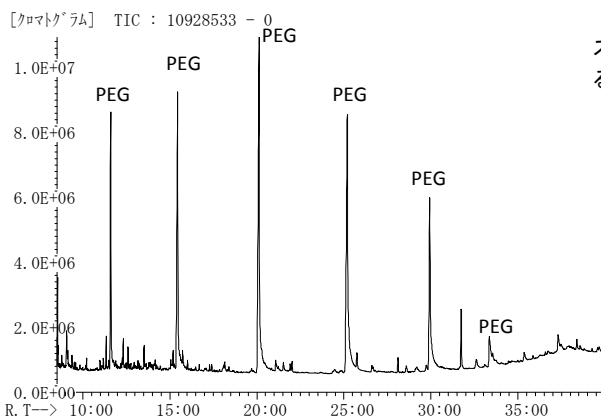


②固相 (C18-50, GCS+PSA)



GC/MS (LVI-S200 大量注入20uL : 試料10mg相当)

Scan Chromatogram



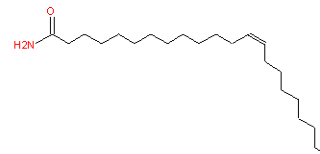
考察

未知検体からクレソキシムメチル、ペルメトリンが検出された。

B法に比べ、一部回収率が高くなるものがあるが、スタンダードの感度が悪いためではないと思われる。

【夾雑成分】

- ① Erucylamide



STQ-KIT
For STQ Method

Sample



Information

水分 : 88.0%
脂質 : 0.1%
脂肪酸 : 0.00%

なしは花おち、しん及び果梗の基部を除去したものを、フードプロセッサーで細切。

AiSTI SCIENCE

Product

LVI-S200
Smart-SPE C18-50
Smart-SPE GCS-20
Smart-SPE PSA-30

株式会社アイスティサイエンス

〒640-8341
和歌山市黒田120-6アソト黒田2F
TEL. 073-475-0033
FAX. 073-497-5011
www.aisti.co.jp

No.	農薬名	回収率(%)	No.	農薬名	回収率(%)	No.	農薬名	回収率(%)	No.	農薬名	回収率(%)
1	1-Naphthylacetamide	88.4	76	Cypermethrin-3	74.9	151	Fluthiacet-methyl	81.2	226	Profenofos	85.1
2	3-Hydroxycarbofuran	St-	77	Cypermethrin-4	74.4	152	Flutolanil	74.5	227	Prohydrojasmon-1	76.7
3	4,4'-Dichlorobenzophenone	78.9	78	Cyproconazole-1	73.0	153	Flutriafol	67.8	228	Prohydrojasmon-2	St-
4	Acephate	71.8	79	Cyproconazole-2	62.0	154	Fluvalinate-1	102.6	229	Prometryn	80.5
5	Acetamipride	65.1	80	DEF(tribufos)	76.3	155	Fluvalinate-2	115.9	230	Propachlor	87.3
6	Acetochlor	81.7	81	Deltamethrin	63.5	156	Formothion	95.6	231	Propanil	77.1
7	Acrinathrin	110.3	82	Demeton-S-methyl	86.9	157	Fosthiazate-1	85.5	232	Propaphos	77.8
8	Alachlor	81.0	83	Diallate-1	83.0	158	Fosthiazate-2	80.6	233	Propargite(BPPS)	80.7
9	Allethrin-1,2	St-	84	Diallate-2	71.3	159	Halfenprox	81.3	234	Propazine	81.3
10	Allethrin-3,4	73.8	85	Diazinone	83.1	160	Hexaconazole	67.1	235	Propiconazole-1	64.8
11	Ametryn	77.1	86	Dichlofenthion	75.7	161	Hexazinone	77.8	236	Propiconazole-2	64.5
12	Anilofos	82.0	87	Dichlofuanid	ND	162	Imazamethabenz methyl	96.2	237	Propoxur	86.7
13	Aramite-3	73.2	88	Dichlorvos	82.5	163	Imibenconazole	81.2	238	Propyzamide	79.9
14	Aramite-4	59.4	89	Diclocymet-1	77.3	164	Imibenconazole-des-benzyl	63.2	239	Prothiophos	75.9
15	Atrazine	83.1	90	Diclocymet-2	72.6	165	Iprobenfos	85.6	240	Pyraclifos	84.2
16	Azaconazole	71.1	91	Diclofop-methyl	78.6	166	Iprodione	106.7	241	Pyraflufen-ethyl	75.2
17	Azinphos-Methyl	St-	92	Dicloran	134.0	167	Isazophos	72.2	242	Pyrazophos	77.3
18	Benalaxyl	78.9	93	Dicrotofos	82.8	168	Isofenphos	79.7	243	Pyributicarb	82.4
19	Bendiocarb	103.6	94	Diethofencarb	76.8	169	Isofenphos P=O	74.7	244	Pyridaben	71.3
20	Benfluranlin	272.3	95	Difenoconazole-1	72.7	170	Isoprocarbe	80.9	245	Pyridafenthion	181.8
21	Benfuresate	77.7	96	Difenoconazole-2	81.3	171	Isoprothiolane	80.0	246	Pyrifeno-x-1	70.6
22	Benoxacor	81.8	97	Diflufenican	74.7	172	Isoxathion	83.1	247	Pyrifeno-x-2	67.3
23	BHC-alpha	77.5	98	Dimepiperate	78.5	173	Isoxathion-ox	115.1	248	Pyrimethanil	77.5
24	BHC-beta	72.6	99	Dimethametryn	89.7	174	Kresoxim-methyl	82.8	249	Pyrimidifen	70.3
25	BHC-gamma	73.5	100	Dimethenamid	78.3	175	Lenacil	70.6	250	Pyriminobac-methyl-1	81.8
26	BHC-delta	106.7	101	Dimethipin	76.4	176	Malathion	76.9	251	Pyriminobac-methyl-2	78.6
27	Bifenox	238.2	102	Dimethoate	88.7	177	Mecarbam	St-	252	Pyriproxyfen	78.4
28	Bifenthrin	81.3	103	Dimethylvinphos-z	86.0	178	Mefenacet	72.3	253	Pyroquilon	78.8
29	Bitertanol-1	63.9	104	Dioxathion	31.6	179	Mefenpyr-diethyl	84.6	254	Quinoclamine	156.3
30	Bitertanol-2	67.2	105	Diphenamide	84.1	180	Mepronil	78.8	255	Quinolophos	80.9
31	Bromacil	82.8	106	Disulfoton	76.7	181	Metalaxyl	81.7	256	Quinomethionate	ND
32	Bromobutide	81.4	107	Disulfoton sulfone	90.4	182	Methamidophos	70.2	257	Quinoxyfen	67.9
33	Bromofos methyl	77.1	108	Edifenphos	82.0	183	Methidathion	83.4	258	Quintozen	135.3
34	Bromophos-ethyl	77.2	109	Endosulfan	67.5	184	Methiocarb	101.5	259	Resmethrin-1	St-
35	Bromopropylate	84.1	110	Endosulfan II	74.0	185	Methoprene-I	St-	260	Resmethrin-2	78.0
36	Bupimate	78.4	111	Endosulfan sulfate	97.3	186	Methoprene-2	74.8	261	Silaflofen	75.3
37	Buprofezin	81.1	112	EPN	232.5	187	Methoxychlor	85.8	262	Simazin	72.4
38	Butachlor	86.1	113	Epoxiconazole	83.1	188	Metolachlor	84.0	263	Simetryn	79.8
39	Butamifos	120.5	114	EPTC	83.8	189	Metominostrobin-e	81.1	264	Spirodiclofen	133.8
40	Butylate	82.8	115	Esprocarb	77.8	190	Metominostrobin-z	85.0	265	Spiroxamine-1	87.1
41	Cadusafos	87.2	116	Ethalfuralin	288.9	191	Mevinphos	89.5	266	Spiroxamine-2	83.8
42	Cafenstrole	99.2	117	Ethiofencarb	106.1	192	Monocrotophos	80.4	267	TCMTB	104.1
43	Captafol	St-	118	Ethion	78.1	193	Myclobutanil	75.7	268	Tebuconazole	66.1
44	Captan	St-	119	Ethofumesate	87.6	194	Napropamide	80.5	269	Tebufenpyrad	80.5
45	Carbaril	123.8	120	Ethoprophos	75.1	195	Nitrothal-isopropyl	406.1	270	Tecnazene	116.8
46	Carbofuran	92.3	121	Etofenprox	78.7	196	Norflurazon	81.0	271	Tefluthrine	78.3
47	Carboxin	97.3	122	Etoxazole	81.5	197	Oryzalin	St-	272	Terbacil	87.6
48	Carfentrazone ethyl	71.6	123	Etrimefos	82.6	198	Oxadiazone	77.6	273	Terbufos	62.0
49	Chlorbenside	64.7	124	Fenamidone	86.0	199	Oxadixyl	79.9	274	Terbutryn	79.8
50	Chlorbufam	49.6	125	Fenamiphos	80.4	200	Oxyfluorfen	99.4	275	Tetrachlorvinphos	82.7
51	Chlorethoxyphos	78.5	126	Fenarimol	71.3	201	p,p'-DDD	81.1	276	Tetraconazole	77.9
52	Chlorfenapyr	81.5	127	Fenbuconazole	80.4	202	p,p'-DDE	75.2	277	Triadifon	84.2
53	Chlorfenson	75.7	128	Fenchlorphos	77.3	203	Pacllobutrazol	63.8	278	Thenylchlor	75.3
54	Chlorfenvinphos-1	83.8	129	Fenitrothion	113.8	204	Parathion	197.9	279	Thiobencarb	80.4
55	Chlorfenvinphos-2	80.3	130	Fenobucarb	83.1	205	Parathion-methyl	244.7	280	Thiometon	83.7
56	Chlorobenzilate	80.5	131	Fenothiocarb	82.2	206	Penconazole	76.6	281	Tolclofos-methyl	80.6
57	Chloroneb	75.9	132	Fenoxanil	82.6	207	Pendimethalin	243.2	282	Tolfenpyrad	79.3
58	Chlorpropham	82.7	133	Fenpropathrin	78.7	208	Permethrin-cis	78.0	283	Toriadimefon	87.3
59	Chlorpyrifos	77.5	134	Fenpropemorph	86.6	209	Permethrin-trans	76.2	284	Triadimenol-1	66.7
60	Chlorpyrifos-methyl	84.3	135	Fensulfothion	73.0	210	Perthane	77.1	285	Triadimenol-2	51.3
61	Chlorthal-dimethyl	82.0	136	Fenthion	78.1	211	Phenothrin-1	71.1	286	Triallate	73.1
62	Chlozolinate	81.6	137	Fenvalerate-1	76.8	212	Phenothrin-2	78.6	287	Triazophos	72.3
63	Cinidon-ethyl	94.4	138	Fenvalerate-2	94.6	213	Phenthoate	73.8	288	Tricyclazole	70.6
64	Clomazone	86.8	139	FIPRONIL	90.3	214	Phorate	79.9	289	Trifloxystrobin	84.0
65	Cyanazine	72.6	140	Flamprop-methyl	79.2	215	Phosalone	73.8	290	Trifluralin	231.1
66	Cyanophos	79.6	141	Fluacrypyrim	82.9	216	Phosmet	100.6	291	Thifluzamide	80.6
67	Cyfluthrin-1	62.0	142	Flucythrinate-1	69.2	217	Phosphamidon	85.9	292	Uniconazole	76.7
68	Cyfluthrin-2	79.4	143	Flucythrinate-2	85.6	218	Phthalide	75.6	293	Vinclozoline	77.5
69	Cyfluthrin-3	93.3	144	Fludioxonil	79.0	219	Picolinafen	80.2	294	XMC	86.2
70	Cyfluthrin-4	75.1	145	Flufenpyl-ethyl	97.8	220	Piperonyl butoxide	82.0	295	Zoxamide	132.5
71	Cyhalofop-butyl	86.4	146	Flumiclorac-pentyl	105.4	221	Piperophos	80.5			
72	Cyhalothrin-1	74.6	147	Flumioxazin	106.9	222	Pirimicarb	76.0			
73	Cyhalothrin-2	77.9	148	Fluquinconazole	88.4	223	Pirimiphos methyl	78.3			
74	Cypermethrin-1	77.4	149	Fluridone	83.6	224	Pretilachlor	84.7			
75	Cypermethrin-2	96.1	150	Flusilazole	64.4	225	Procymidone	78.1			

*PEG共注入標準溶液による絶対検量線を使用 回収率30%未満は ND スタンダードNDは St- 回収率150%以上は