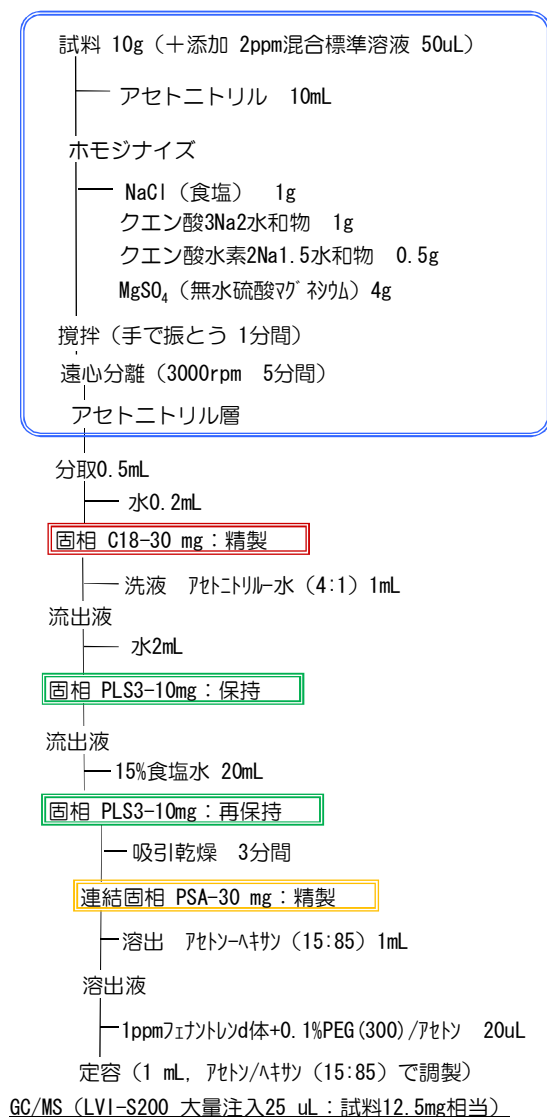


日本梨（二十世紀）MA-GCB1

前処理フロー



GC/MS (LVI-S200 大量注入25 μL : 試料12.5mg相当)

目的/実験方法

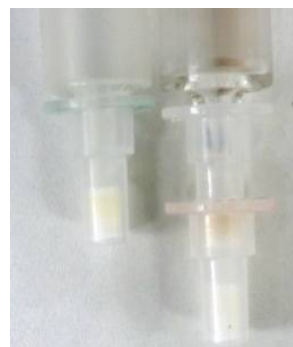
手作業による添加回収試験 (GC-B1法)

- 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
 - ・20ppbフェナントレンド体 + 20ppmPEG + 農薬混合標準溶液 (アセトン-ヘキサン)
 - * フェナントレンド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 (C18-30, PLS+PSA)

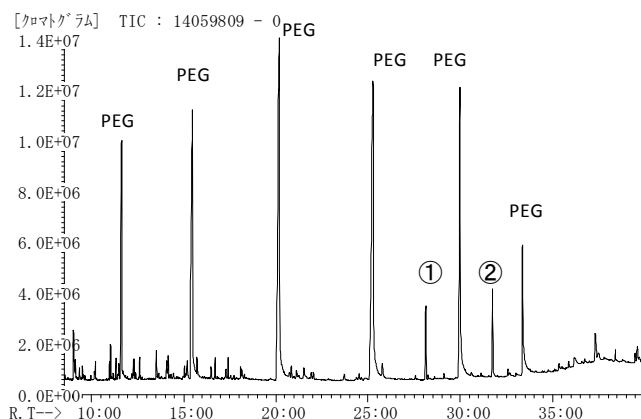


考察

大きな夾雑ピークは無く、概ね良好な回収率を得ることができた。

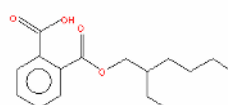
未知検体からクレソキシムメチル、ペルメトリンが検出された。

Scan Chromatogram



【夾雑成分】

① Monoethylhexyl phthalate



②Erucylamide



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、フードプロセッサで細切。

AISTI SCIENCE

Product

LVI-S200
Smart-SPE C18-30
Smart-SPE PLS3-10
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アソート黒田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	ND	76	Cypermethrin-3	81.6	151	Fluthiacet-methyl	75.5	226	Profenofos	96.1
2	3-Hydroxycarbofuran	St-	77	Cypermethrin-4	97.0	152	Flutolanil	94.5	227	Prohydrojasmon-1	93.5
3	4,4'-Dichlorobenzophenone	94.0	78	Cyproconazole-1	91.0	153	Flutriafol	55.6	228	Prohydrojasmon-2	St-
4	Acephate	ND	79	Cyproconazole-2	84.6	154	Fluvalinate-1	86.8	229	Prometryn	96.9
5	Acetamidpride	ND	80	DEF(tribufos)	97.9	155	Fluvalinate-2	92.9	230	Propachlor	99.5
6	Acetochlor	98.0	81	Deltamethrin	St-	156	Formothion	80.4	231	Propanil	67.3
7	Acrinathrin	86.3	82	Demeton-S-methyl	ND	157	Fosthiazate-1	90.5	232	Propaphos	68.8
8	Alachlor	100.5	83	Diallate-1	96.9	158	Fosthiazate-2	82.7	233	Propargite(BPPS)	84.9
9	Allethrin-1,2	St-	84	Diallate-2	99.2	159	Halfenprox	91.4	234	Propazine	97.0
10	Allethrin-3,4	88.5	85	Diazinone	99.7	160	Hexaconazole	86.9	235	Propiconazole-1	93.0
11	Ametryn	96.6	86	Dichlofenthion	97.2	161	Hexazinone	55.8	236	Propiconazole-2	108.5
12	Anilofos	99.9	87	Dichlofluaniid	St-	162	Imazamethabenz methyl	44.4	237	Propoxur	79.4
13	Aramite-3	97.1	88	Dichlorvos	66.7	163	Imibenconazole	St-	238	Propyzamide	93.2
14	Aramite-4	62.4	89	Diclocymet-1	97.1	164	Imibenconazole-des-benzyl	ND	239	Prothiophos	94.4
15	Atrazine	95.2	90	Diclocymet-2	87.9	165	Iprobenfos	93.9	240	Pyraclofos	91.4
16	Azaconazole	84.3	91	Diclofop-methyl	90.0	166	Iprodione	77.7	241	Pyraflufen-ethyl	94.5
17	Azinphos-Methyl	102.1	92	Dicloran	89.0	167	Isazophos	105.6	242	Pyrazophos	88.2
18	Benalaxyl	93.2	93	Dicrotofos	ND	168	Isofenphos	92.5	243	Pyributicarb	84.9
19	Bendiocarb	72.7	94	Diethofencarb	98.8	169	Isofenphos P=O	93.4	244	Pyridaben	92.1
20	Benfluranlin	101.6	95	Difenoconazole-1	91.3	170	Isoprocarbe	96.5	245	Pyridafenthion	84.1
21	Benfuresate	100.8	96	Difenoconazole-2	92.0	171	Isoprothiolane	94.1	246	Pyrifeno-1	92.3
22	Benoxacor	97.0	97	Diflufenican	95.8	172	Isoxathion	88.5	247	Pyrifeno-2	92.6
23	BHC-alpha	98.7	98	Dimepiperate	94.6	173	Isoxathion-ox	93.1	248	Pyrimethanil	91.9
24	BHC-beta	86.6	99	Dimethametryn	94.9	174	Kresoxim-methyl	93.3	249	Pyrimidifen	87.1
25	BHC-gamma	88.1	100	Dimethenamid	99.6	175	Lenacil	70.3	250	Pyriminobac-methyl-1	98.3
26	BHC-delta	95.6	101	Dimethipin	88.1	176	Malathion	98.6	251	Pyriminobac-methyl-2	94.2
27	Bifenox	84.6	102	Dimethoate	34.2	177	Mecarbam	St-	252	Pyriproxyfen	96.3
28	Bifenthrin	90.3	103	Dimethylvinphos-z	98.0	178	Mefenacet	94.1	253	Pyroquilon	46.6
29	Bitertanol-1	74.9	104	Dioxathion	42.5	179	Mefenpyr-diethyl	98.3	254	Quinoclamine	80.1
30	Bitertanol-2	54.2	105	Diphenamide	96.8	180	Mepronil	95.7	255	Quinolphos	102.7
31	Bromacil	47.6	106	Disulfoton	ND	181	Metalaxyl	91.0	256	Quinomethionate	67.5
32	Bromobutide	97.2	107	Disulfoton sulfone	101.5	182	Methamidophos	ND	257	Quinoxyfen	88.4
33	Bromofos methyl	95.1	108	Edifenphos	94.9	183	Methidathion	96.9	258	Quintozen	99.1
34	Bromophos-ethyl	96.9	109	Endosulfan	100.8	184	Methiocarb	62.0	259	Resmethrin-1	St-
35	Bromopropylate	98.4	110	Endosulfan II	82.6	185	Methoprene-1	St-	260	Resmethrin-2	78.9
36	Bupimate	101.5	111	Endosulfan sulfate	113.4	186	Methoprene-2	82.8	261	Silafluofen	78.0
37	Buprofezin	93.0	112	EPN	85.8	187	Methoxychlor	98.5	262	Simazin	77.6
38	Butachlor	95.3	113	Epoxiconazole	91.4	188	Metolachlor	101.1	263	Simetryn	89.5
39	Butamifos	91.1	114	EPTC	98.3	189	Metominostrobin-e	95.7	264	Spirodiclofen	92.8
40	Butylate	92.7	115	Esprocarb	97.0	190	Metominostrobin-z	90.7	265	Spiroxamine-1	99.3
41	Cadusafos	99.8	116	Ethalfuralin	102.0	191	Mevinphos	30.7	266	Spiroxamine-2	91.6
42	Cafenstrole	87.6	117	Ethiofencarb	ND	192	Monocrotophos	ND	267	TCMTB	107.8
43	Captafol	St-	118	Ethion	98.6	193	Myclobutanil	90.8	268	Tebuconazole	89.3
44	Captan	211.1	119	Ethofumesate	96.5	194	Napropamide	91.6	269	Tebufenpyrad	89.5
45	Carbaril	51.5	120	Ethoprophos	97.6	195	Nitrothal-isopropyl	91.1	270	Tecnazene	92.0
46	Carbofuran	71.3	121	Etofenprox	92.7	196	Norflurazon	79.4	271	Tefluthrine	94.3
47	Carboxin	38.6	122	Etoxazole	91.3	197	Oryzalin	St-	272	Terbacil	65.4
48	Carfentrazone ethyl	94.0	123	Etrinfos	97.8	198	Oxadiazone	96.4	273	Terbufos	56.1
49	Chlorbenside	80.3	124	Fenamidone	95.7	199	Oxadixyl	64.2	274	Terbutryn	95.3
50	Chlorbufam	78.9	125	Fenamiphos	73.3	200	Oxyfluorfen	94.8	275	Tetrachlorvinphos	95.8
51	Chlorethoxyphos	97.4	126	Fenarimol	82.4	201	p,p'-DDD	93.4	276	Tetraconazole	90.4
52	Chlorfenapyr	92.8	127	Fenbuconazole	79.9	202	p,p'-DDE	85.9	277	Tetradifon	94.4
53	Chlorfenson	91.6	128	Fenchlorphos	97.3	203	Paclobutrazol	85.0	278	Thenylchlor	92.6
54	Chlorfenvinphos-1	88.0	129	Fenitrothion	97.0	204	Parathion	95.7	279	Thiobencarb	97.8
55	Chlorfenvinphos-2	91.4	130	Fenobucarb	101.0	205	Parathion-methyl	100.1	280	Thiometon	ND
56	Chlorobenzilate	92.4	131	Fenothiocarb	96.4	206	Penconazole	90.8	281	Tolclofos-methyl	109.3
57	Chloroneb	82.9	132	Fenoxanil	95.8	207	Pendimethalin	102.0	282	Tolfenpyrad	95.0
58	Chlorpropham	107.2	133	Fenpropathrin	99.5	208	Permethrin-cis	89.7	283	Toriadimefon	95.6
59	Chlorpyrifos	94.9	134	Fenpropemorph	93.3	209	Permethrin-trans	91.6	284	Triadimenol-1	85.3
60	Chlorpyrifos-methyl	97.7	135	Fensulfothion	101.2	210	Perthane	93.1	285	Triadimenol-2	69.8
61	Chlorthal-dimethyl	98.0	136	Fenthion	70.2	211	Phenothrin-1	75.6	286	Triallate	93.8
62	Chlzolinate	96.7	137	Fenvalerate-1	90.1	212	Phenothrin-2	93.0	287	Triazophos	70.6
63	Cinidon-ethyl	89.3	138	Fenvalerate-2	96.7	213	Phenthoate	122.4	288	Tricyclazole	ND
64	Clomazone	98.4	139	FIPRONIL	92.0	214	Phorate	72.2	289	Trifloxystrobin	96.2
65	Cyanazine	78.0	140	Flamprop-methyl	99.4	215	Phosalone	100.7	290	Trifluralin	99.9
66	Cyanophos	98.3	141	Fluacrypyrim	93.7	216	Phosmet	97.7	291	Thifluzamide	42.0
67	Cyfluthrin-1	51.6	142	Flucythrinate-1	95.6	217	Phosphamidon	82.6	292	Uniconazole	78.9
68	Cyfluthrin-2	93.8	143	Flucythrinate-2	99.4	218	Phthalide	99.9	293	Vinclozoline	99.8
69	Cyfluthrin-3	92.0	144	Fludioxonil	35.4	219	Picolinafen	97.3	294	XMC	92.1
70	Cyfluthrin-4	97.2	145	Flufenpyl-ethyl	96.1	220	Piperonyl butoxide	90.1	295	Zoxamide	100.5
71	Cyhalofop-butyl	98.6	146	Flumiclorac-pentyl	92.5	221	Piperophos	93.3			
72	Cyhalothrin-1	96.5	147	Flumioxazin	78.8	222	Pirimicarb	75.3			
73	Cyhalothrin-2	94.4	148	Fluquinconazole	95.5	223	Pirimiphos methyl	97.2			
74	Cypermethrin-1	95.5	149	Fluridone	46.1	224	Pretilachlor	93.5			
75	Cypermethrin-2	73.8	150	Flusilazole	91.7	225	Procymidone	92.0			

*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