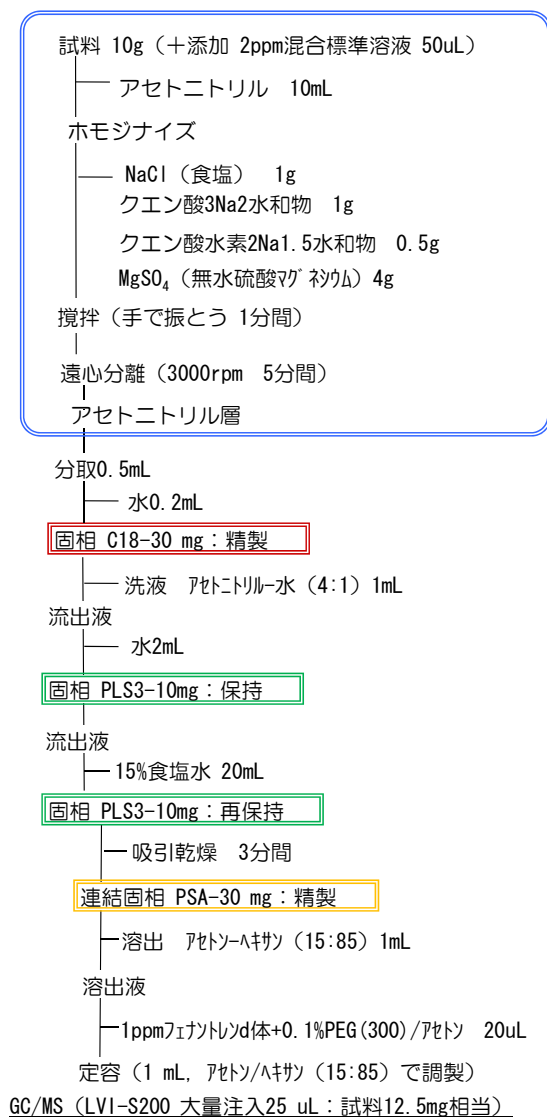


こねぎ MA-GCB1



STQ-KIT
For STQ Method

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-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。

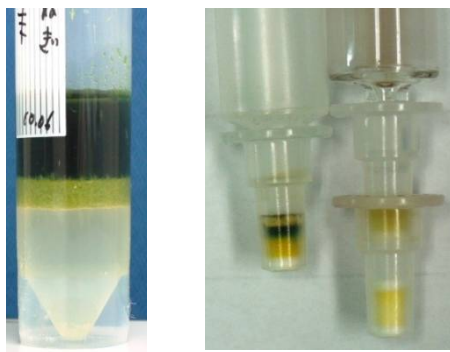
Sample



Information

水分 : 91.3%
脂質 : 0.3%
脂肪酸 : 0.00%

①遠心分離後 ②固相 (C18-30, PLS+PSA)

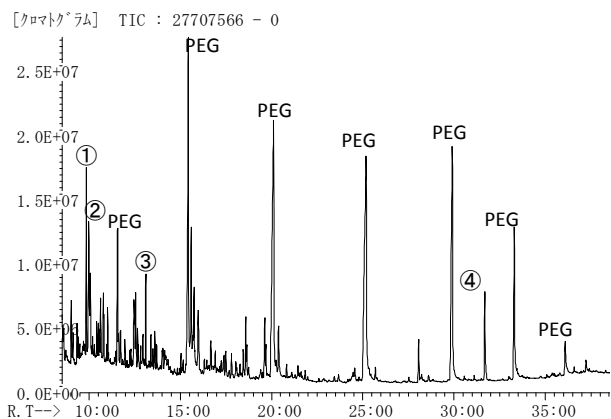


考察

RT16分付近でプロハイドロジャスモン1のピークに夾雑ピーク(SCANにはピーク出ない)が重なり、解析に影響を与えている。

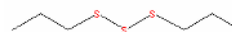
SCANクロマトグラムでは前半に夾雑ピークが多く出ているが、実際の解析では上記以外大きな夾雑ピークが重なる事は無く、概ね良好な回収率を得ることができた。

Scan Chromatogram



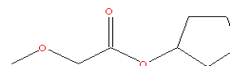
【夾雑成分】

① Propyl trisulfide

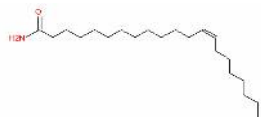


② 不明

③ Methoxyacetic



④ Erucylamide



AISTI SCIENCE

Product

LVI-S200
Smart-SPE C18-30
Smart-SPE PLS3-10
Smart-SPE PSA-30

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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	81.3	151	Fluthiacet-methyl	51.7	226	Profenofos	90.4
2	3-Hydroxycarbofuran	St-	77	Cypermethrin-4	94.5	152	Flutolanil	96.6	227	Prohydrojasmon-1	72.6
3	4,4'-Dichlorobenzophenone	94.5	78	Cyproconazole-1	97.3	153	Flutriafol	54.5	228	Prohydrojasmon-2	St-
4	Acephate	ND	79	Cyproconazole-2	93.5	154	Fluvalinate-1	104.3	229	Prometryn	96.0
5	Acetamidpride	ND	80	DEF(tribufos)	100.4	155	Fluvalinate-2	111.9	230	Propachlor	106.8
6	Acetochlor	102.5	81	Deltamethrin	119.8	156	Formothion	114.1	231	Propanil	75.9
7	Acrinathrin	146.0	82	Demeton-S-methyl	81.6	157	Fosthiazate-1	104.6	232	Propaphos	86.2
8	Alachlor	91.6	83	Diallate-1	102.5	158	Fosthiazate-2	101.9	233	Propargite(BPPS)	71.7
9	Allethrin-1,2	St-	84	Diallate-2	91.9	159	Halfenprox	77.4	234	Propazine	89.6
10	Allethrin-3,4	88.4	85	Diazinone	96.0	160	Hexaconazole	100.0	235	Propiconazole-1	117.7
11	Ametryn	97.4	86	Dichlofenthion	94.1	161	Hexazinone	50.0	236	Propiconazole-2	88.6
12	Anilofos	58.4	87	Dichlofluaniid	St-	162	Imazamethabenz methyl	74.1	237	Propoxur	82.2
13	Aramite-3	80.8	88	Dichlorvos	54.0	163	Imibenconazole	66.3	238	Propyzamide	86.4
14	Aramite-4	79.9	89	Diclocymet-1	92.6	164	Imibenconazole-des-benzyl	35.9	239	Prothiophos	98.4
15	Atrazine	91.0	90	Diclocymet-2	104.1	165	Iprobenfos	106.1	240	Pyraclufos	73.7
16	Azaconazole	88.4	91	Diclofop-methyl	88.9	166	Iprodione	129.5	241	Pyraflufen-ethyl	87.5
17	Azinphos-Methyl	40.2	92	Dicloran	124.8	167	Isazophos	100.8	242	Pyrazophos	82.1
18	Benalaxyl	96.0	93	Dicrtofos	ND	168	Isofenphos	115.3	243	Pyributicarb	117.1
19	Bendiocarb	100.7	94	Diethofencarb	105.3	169	Isofenphos P=O	112.5	244	Pyridaben	87.6
20	Benfluraniln	154.2	95	Difenoconazole-1	74.1	170	Isoprocarbe	85.4	245	Pyridafenthion	89.6
21	Benfuresate	96.2	96	Difenoconazole-2	73.5	171	Isoprothiolane	98.6	246	Pyrifenoxy-1	94.2
22	Benoxacor	119.1	97	Diflufenican	91.6	172	Isoxathion	80.7	247	Pyrifenoxy-2	91.2
23	BHC-alpha	100.1	98	Dimepiperate	100.8	173	Isoxathion-ox	115.5	248	Pyrimethanil	82.9
24	BHC-beta	92.7	99	Dimethametryn	96.8	174	Kresoxim-methyl	94.1	249	Pyrimidifen	85.2
25	BHC-gamma	95.4	100	Dimethenamid	94.5	175	Lenacil	63.1	250	Pyriminobac-methyl-1	101.6
26	BHC-delta	121.5	101	Dimethipin	93.5	176	Malathion	105.0	251	Pyriminobac-methyl-2	96.7
27	Bifenox	130.9	102	Dimethoate	ND	177	Mecarbam	95.6	252	Pyriproxyfen	91.5
28	Bifenthrin	80.1	103	Dimethylvinphos-z	98.9	178	Mefenacet	91.6	253	Pyroquilon	33.4
29	Bitertanol-1	67.7	104	Dioxathion	75.4	179	Mefenpyr-diethyl	95.8	254	Quinoclamine	87.9
30	Bitertanol-2	57.2	105	Diphenamide	94.6	180	Mepronil	104.8	255	Quinolphos	86.7
31	Bromacil	49.5	106	Disulfoton	98.0	181	Metalaxyl	84.4	256	Quinomethionate	84.0
32	Bromobutide	109.5	107	Disulfoton sulfone	100.1	182	Methamidophos	ND	257	Quinoxyfen	81.5
33	Bromofos methyl	86.2	108	Edifenphos	105.4	183	Methidathion	83.9	258	Quintozen	80.7
34	Bromophos-ethyl	87.1	109	Endosulfan	82.1	184	Methiocarb	129.9	259	Resmethrin-1	St-
35	Bromopropylate	94.7	110	Endosulfan II	90.4	185	Methoprene-1	125.0	260	Resmethrin-2	78.4
36	Bupimate	90.8	111	Endosulfan sulfate	85.9	186	Methoprene-2	34.7	261	Silaflufen	68.7
37	Buprofezin	78.7	112	EPN	118.5	187	Methoxychlor	80.4	262	Simazin	78.0
38	Butachlor	90.8	113	Epoxiconazole	92.4	188	Metolachlor	97.2	263	Simetryn	94.0
39	Butamifos	124.4	114	EPTC	90.5	189	Metaminostrobin-e	95.6	264	Spirodiclofen	87.7
40	Butylate	86.6	115	Esprocarb	93.5	190	Metaminostrobin-z	97.4	265	Spiroxamine-1	75.1
41	Cadusafos	101.2	116	Ethalfuralin	161.2	191	Mevinphos	ND	266	Spiroxamine-2	101.6
42	Cafenstrole	101.9	117	Ethiofencarb	116.3	192	Monocrotophos	ND	267	TCMTB	St-
43	Captafol	St-	118	Ethion	101.1	193	Myclobutanil	84.2	268	Tebuconazole	91.2
44	Captan	St-	119	Ethofumesate	93.1	194	Napropamide	98.3	269	Tebufenpyrad	89.6
45	Carbaril	133.6	120	Ethoprophos	108.2	195	Nitrothal-isopropyl	140.9	270	Tecnazene	116.4
46	Carbofuran	94.0	121	Etofenprox	85.9	196	Norflurazon	67.2	271	Tefluthrine	86.5
47	Carboxin	82.6	122	Etoxazole	87.4	197	Oryzalin	St-	272	Terbacil	70.9
48	Carfentrazone ethyl	106.7	123	Etrimfos	96.2	198	Oxadiazone	88.2	273	Terbufos	101.1
49	Chlorbenside	99.0	124	Fenamidone	94.6	199	Oxadixyl	54.6	274	Terbutryn	98.5
50	Chlorbufam	116.0	125	Fenamiphos	87.9	200	Oxyfluorfen	139.7	275	Tetrachlorvinphos	76.6
51	Chlorethoxyphos	111.1	126	Fenarimol	87.9	201	p,p'-DDD	94.4	276	Tetraconazole	106.9
52	Chlorfenapyr	82.7	127	Fenbuconazole	64.7	202	p,p'-DDE	73.2	277	Tetradifon	89.2
53	Chlorfenson	91.4	128	Fenchlorphos	90.3	203	Pacllobutrazol	96.8	278	Thenylchlor	85.3
54	Chlorfenvinphos-1	98.8	129	Fenitrothion	116.1	204	Parathion	147.2	279	Thiobencarb	100.8
55	Chlorfenvinphos-2	91.8	130	Fenobucarb	99.3	205	Parathion-methyl	123.7	280	Thiometon	98.0
56	Chlorobenzilate	94.7	131	Fenothiocarb	94.3	206	Penconazole	118.8	281	Tolclofos-methyl	93.9
57	Chloroneb	78.6	132	Fenoxanil	96.0	207	Pendimethalin	155.5	282	Tolfenpyrad	90.5
58	Chlorpropham	95.8	133	Fenpropathrin	85.9	208	Permethrin-cis	83.0	283	Toridimefon	107.2
59	Chlorpyrifos	95.8	134	Fenpropemorph	84.5	209	Permethrin-trans	87.3	284	Triadimenol-1	86.3
60	Chlorpyrifos-methyl	95.6	135	Fensulfthion	110.6	210	Perthane	90.3	285	Triadimenol-2	83.1
61	Chlorthal-dimethyl	90.7	136	Fenthion	96.1	211	Phenothrin-1	79.7	286	Triallate	98.0
62	Chlozolinate	99.3	137	Fenvalerate-1	102.2	212	Phenothrin-2	88.1	287	Triazophos	96.4
63	Cinidon-ethyl	89.8	138	Fenvalerate-2	71.2	213	Phenthoate	102.5	288	Tricyclazole	ND
64	Clomazone	93.2	139	FIPRONIL	101.9	214	Phorate	119.6	289	Trifloxystrobin	113.2
65	Cyanazine	71.4	140	Flamprop-methyl	93.7	215	Phosalone	89.1	290	Trifluralin	146.8
66	Cyanophos	78.4	141	Fluacrypyrim	93.5	216	Phosmet	70.7	291	Thifluzamide	43.2
67	Cyfluthrin-1	57.6	142	Flucythrinate-1	95.4	217	Phosphamidon	70.0	292	Uniconazole	96.0
68	Cyfluthrin-2	126.7	143	Flucythrinate-2	90.4	218	Phthalide	104.1	293	Vinclozoline	88.7
69	Cyfluthrin-3	87.0	144	Fludioxonil	ND	219	Picolinafen	95.3	294	XMC	97.7
70	Cyfluthrin-4	54.6	145	Flufenpyl-ethyl	102.1	220	Piperonyl butoxide	86.3	295	Zoxamide	St-
71	Cyhalofop-butyl	96.0	146	Flumiclorac-pentyl	96.9	221	Piperophos	99.0			
72	Cyhalothrin-1	102.0	147	Flumioxazin	34.3	222	Pirimicarb	58.6			
73	Cyhalothrin-2	80.2	148	Fluquinconazole	93.5	223	Pirimiphos methyl	95.6			
74	Cypermethrin-1	93.6	149	Fluridone	36.2	224	Pretilachlor	92.4			
75	Cypermethrin-2	97.3	150	Flusilazole	97.6	225	Procymidone	83.9			

*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