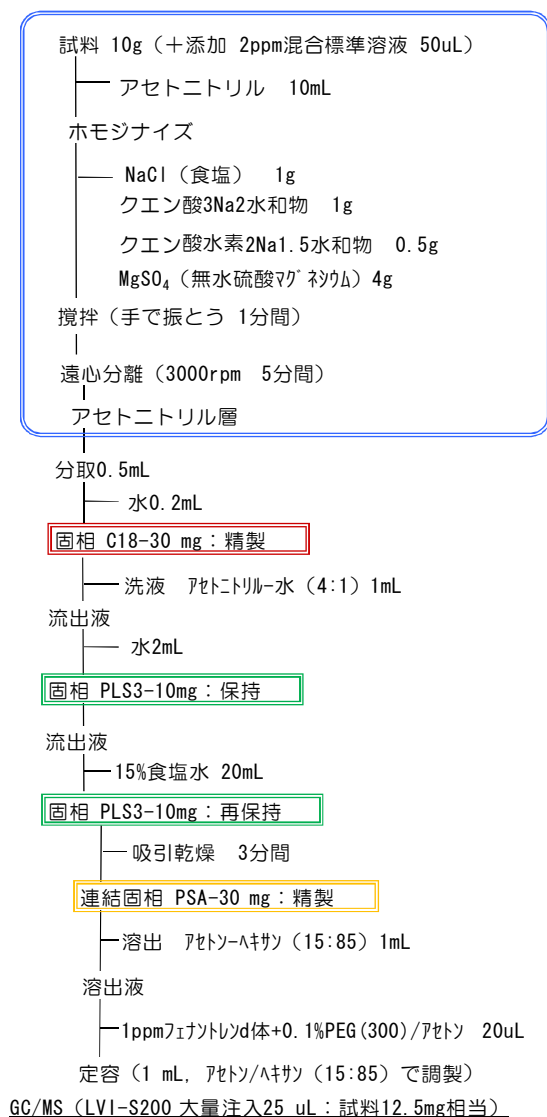


キャベツ MA-GCB1

前処理フロー



目的/実験方法

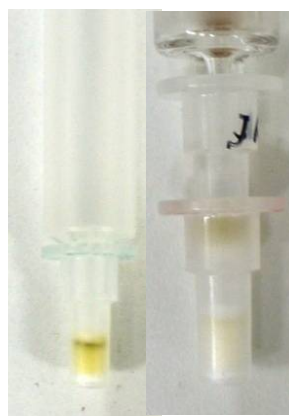
手作業による添加回収試験 (GC-B1法)

- 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d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d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)

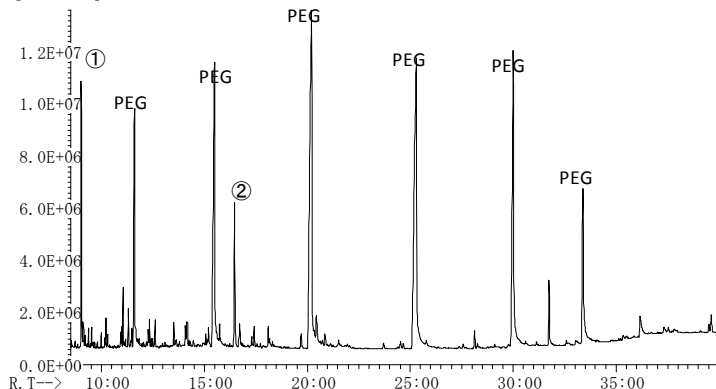


考察

大きな夾雑ピークは無く、やや低いものもあるが概ね良好な回収率を得ることができた。

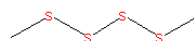
Scan Chromatogram

[クロマトグラム] TIC : 13609786 - 0

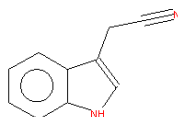


【夾雑成分】

① Dimethyl tetrasulfide



② Indoleacetonitrile



STQ-KIT

For STQ Method

Sample



Information

水分 : 92.7%
脂質 : 0.2%
脂肪酸 : 0.05%

キャベツは、外側変質葉及びしんを除いたものを4等分し、各々から1/2等分を集めたものをフードプロセッサーで細切。

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	96.3	151	Fluthiacet-methyl	48.6	226	Profenofos	79.0
2	3-Hydroxycarbofuran	St-	77	Cypermethrin-4	103.3	152	Flutolanil	88.3	227	Prohydrojasmon-1	79.9
3	4,4'-Dichlorobenzophenone	78.4	78	Cyproconazole-1	81.2	153	Flutriafol	53.1	228	Prohydrojasmon-2	St-
4	Acephate	ND	79	Cyproconazole-2	79.4	154	Fluvalinate-1	101.9	229	Prometryn	82.8
5	Acetamipride	ND	80	DEF(tribufos)	82.3	155	Fluvalinate-2	97.8	230	Propachlor	78.3
6	Acetochlor	87.6	81	Deltamethrin	85.8	156	Formothion	84.8	231	Propanil	65.6
7	Acrinathrin	86.2	82	Demeton-S-methyl	55.8	157	Fosthiazate-1	69.1	232	Propaphos	79.5
8	Alachlor	84.1	83	Diallate-1	81.7	158	Fosthiazate-2	73.8	233	Propargite(BPPS)	80.7
9	Allethrin-1,2	St-	84	Diallate-2	81.9	159	Halfenprox	75.9	234	Propazine	85.6
10	Allethrin-3,4	78.9	85	Diazinone	85.2	160	Hexaconazole	80.8	235	Propiconazole-1	84.4
11	Ametryn	81.0	86	Dichlofenthion	83.2	161	Hexazinone	43.0	236	Propiconazole-2	72.8
12	Anilofos	68.5	87	Dichlofluanid	ND	162	Imazamethabenz methyl	40.5	237	Propoxur	70.2
13	Aramite-3	79.0	88	Dichlorvos	43.1	163	Imibenconazole	49.8	238	Propyzamide	86.5
14	Aramite-4	57.7	89	Diclocymet-1	83.5	164	Imibenconazole-des-benzyl	34.7	239	Prothiophos	82.5
15	Atrazine	74.5	90	Diclocymet-2	88.1	165	Iprobenfos	87.8	240	Pyraclofos	80.1
16	Azaconazole	81.0	91	Diclofop-methyl	83.5	166	Iprodione	111.4	241	Pyraflufen-ethyl	81.2
17	Azinphos-Methyl	34.2	92	Dicloran	98.7	167	Isazophos	90.9	242	Pyrazophos	82.2
18	Benalaxyl	89.4	93	Dicrotofos	ND	168	Isofenphos	91.0	243	Pyributicarb	84.0
19	Bendiocarb	87.2	94	Diethofencarb	84.4	169	Isofenphos P=O	88.2	244	Pyridaben	78.1
20	Benfluranil	91.9	95	Difenoconazole-1	77.7	170	Isoprocabe	76.7	245	Pyridafenthion	84.3
21	Benfuresate	88.3	96	Difenoconazole-2	77.5	171	Isoprothiolane	91.5	246	Pyrifeno-1	70.0
22	Benoxacor	81.6	97	Diflufenican	79.3	172	Isoxathion	80.4	247	Pyrifeno-2	71.6
23	BHC-alpha	77.4	98	Dimepiperate	77.9	173	Isoxathion-ox	78.7	248	Pyrimethanil	79.7
24	BHC-beta	80.1	99	Dimethametryn	85.3	174	Kresoxim-methyl	85.8	249	Pyrimidifen	77.6
25	BHC-gamma	90.4	100	Dimethenamid	84.9	175	Lenacil	57.7	250	Pyriminobac-methyl-1	88.1
26	BHC-delta	97.2	101	Dimethipin	75.5	176	Malathion	89.7	251	Pyriminobac-methyl-2	87.8
27	Bifenox	97.9	102	Dimethoate	ND	177	Mecarbam	St-	252	Pyriproxyfen	83.2
28	Bifenthrin	81.6	103	Dimethylvinphos-z	81.4	178	Mefenacet	81.8	253	Pyroquilon	44.1
29	Bitertanol-1	65.4	104	Dioxathion	35.1	179	Mefenpyr-diethyl	83.6	254	Quinoclamine	63.9
30	Bitertanol-2	57.2	105	Diphenamide	86.0	180	Mepronil	90.5	255	Quinolophos	85.3
31	Bromacil	31.7	106	Disulfoton	65.4	181	Metalaxyl	83.7	256	Quinomethionate	84.3
32	Bromobutide	85.4	107	Disulfoton sulfone	102.4	182	Methamidophos	ND	257	Quinoxifen	77.6
33	Bromofos methyl	73.2	108	Edifenphos	86.8	183	Methidathion	83.9	258	Quintozen	75.5
34	Bromophos-ethyl	76.1	109	Endosulfan	85.4	184	Methiocarb	112.9	259	Resmethrin-1	St-
35	Bromopropylate	83.7	110	Endosulfan II	72.0	185	Methoprene-1	St-	260	Resmethrin-2	ND
36	Bupimate	81.4	111	Endosulfan sulfate	81.0	186	Methoprene-2	74.4	261	Silafluofen	70.1
37	Buprofezin	83.9	112	EPN	65.2	187	Methoxychlor	73.4	262	Simazin	60.6
38	Butachlor	83.0	113	Epoxiconazole	83.7	188	Metolachlor	86.2	263	Simetryn	70.0
39	Butamifos	97.8	114	EPTC	66.7	189	Metominostrobin-e	87.6	264	Spirodiclofen	57.5
40	Butylate	80.1	115	Esprocarb	83.8	190	Metominostrobin-z	86.9	265	Spiroxamine-1	75.0
41	Cadusafos	83.2	116	Ethalfuralin	82.4	191	Mevinphos	ND	266	Spiroxamine-2	84.1
42	Cafenstrole	93.0	117	Ethiofencarb	72.3	192	Monocrotophos	ND	267	TCMTB	St-
43	Captafol	St-	118	Ethion	82.4	193	Myclobutanil	87.7	268	Tebuconazole	82.5
44	Captan	St-	119	Ethofumesate	88.2	194	Napropamide	90.9	269	Tebufenpyrad	76.5
45	Carbaryl	132.6	120	Ethoprophos	85.6	195	Nitrothal-isopropyl	88.6	270	Tecnazene	89.4
46	Carbofuran	78.8	121	Etofenprox	83.0	196	Norflurazon	67.9	271	Tefluthrine	79.3
47	Carboxin	48.8	122	Etoazazole	83.4	197	Oryzalin	St-	272	Terbacil	61.7
48	Carfentrazone ethyl	79.2	123	Etrinfos	89.9	198	Oxadiazone	85.6	273	Terbufos	66.7
49	Chlorbenside	82.9	124	Fenamidone	82.4	199	Oxadixyl	51.9	274	Terbutryn	90.3
50	Chlorbufam	ND	125	Fenamiphos	84.6	200	Oxyfluorfen	92.5	275	Tetrachlorvinphos	78.8
51	Chlorethoxyphos	76.9	126	Fenarimol	76.8	201	p,p'-DDD	80.9	276	Tetraconazole	86.4
52	Chlorfenapyr	84.1	127	Fenbuconazole	74.6	202	p,p'-DDE	76.2	277	Tetradifon	73.8
53	Chlorfenson	91.8	128	Fenchlorphos	77.3	203	Paclobutrazol	84.6	278	Thenylchlor	64.6
54	Chlorfenvinphos-1	87.2	129	Fenitrothion	89.5	204	Parathion	101.3	279	Thiobencarb	86.3
55	Chlorfenvinphos-2	93.7	130	Fenobucarb	82.9	205	Parathion-methyl	95.7	280	Thiometon	65.5
56	Chlorobenzilate	85.1	131	Fenothiocarb	89.3	206	Penconazole	87.0	281	Tolclofos-methyl	84.7
57	Chloroneb	79.1	132	Fenoxanil	87.5	207	Pendimethalin	87.0	282	Tolfenpyrad	78.4
58	Chlorpropham	91.2	133	Fenpropathrin	87.3	208	Permethrin-cis	80.4	283	Toriadimefon	89.7
59	Chlorpyrifos	84.1	134	Fenpropemorph	82.3	209	Permethrin-trans	79.8	284	Triadimenol-1	79.2
60	Chlorpyrifos-methyl	81.1	135	Fensulfothion	94.8	210	Perthane	80.1	285	Triadimenol-2	59.5
61	Chlorthal-dimethyl	77.7	136	Fenthion	77.6	211	Phenothrin-1	65.0	286	Triallate	79.4
62	Chlozoline	90.1	137	Fenvalerate-1	92.5	212	Phenothrin-2	81.4	287	Triazophos	84.5
63	Cinidon-ethyl	80.7	138	Fenvalerate-2	87.8	213	Phenthoate	72.8	288	Tricyclazole	ND
64	Clomazone	88.3	139	FIPRONIL	75.8	214	Phorate	71.5	289	Trifloxystrobin	84.2
65	Cyanazine	69.6	140	Flamprop-methyl	95.9	215	Phosalone	77.2	290	Trifluralin	87.4
66	Cyanophos	83.0	141	Fluacrypyrim	84.8	216	Phosmet	78.1	291	Thifluzamide	38.9
67	Cyfluthrin-1	ND	142	Flucythrinate-1	85.9	217	Phosphamidon	57.5	292	Uniconazole	72.8
68	Cyfluthrin-2	92.8	143	Flucythrinate-2	86.7	218	Phthalide	57.8	293	Vinclozoline	83.0
69	Cyfluthrin-3	106.3	144	Fludioxonil	56.8	219	Picolinafen	81.6	294	XMC	78.0
70	Cyfluthrin-4	84.8	145	Flufenpyl-ethyl	85.3	220	Piperonyl butoxide	81.1	295	Zoxamide	ND
71	Cyhalofop-butyl	90.3	146	Flumiclorac-pentyl	82.6	221	Piperophos	86.1			
72	Cyhalothrin-1	85.3	147	Flumioxazin	74.2	222	Pirimicarb	43.7			
73	Cyhalothrin-2	88.5	148	Fluquinacozazole	90.8	223	Pirimiphos methyl	88.5			
74	Cypermethrin-1	82.2	149	Fluridone	44.4	224	Pretilachlor	78.1			
75	Cypermethrin-2	112.0	150	Flusilazole	85.6	225	Procymidone	87.3			

*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-