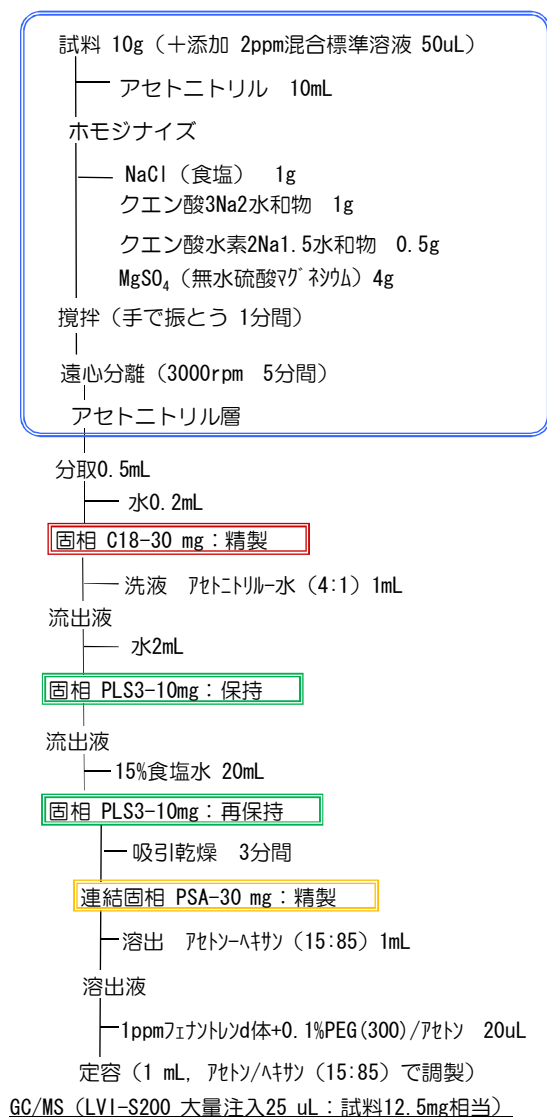


レタス MA-GCB1

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。

①遠心分離後



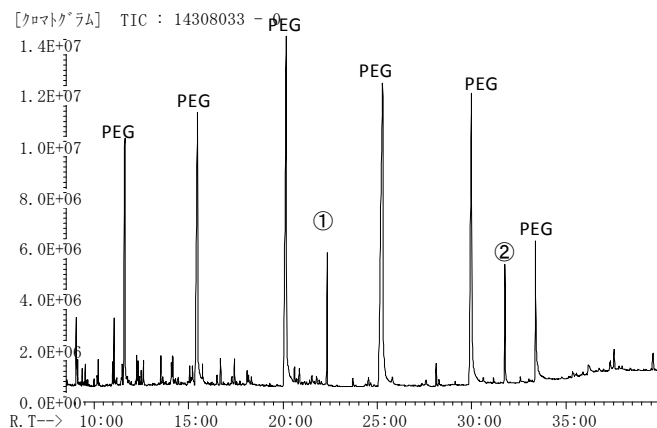
②固相 (C18-30, PLS+PSA)



考察

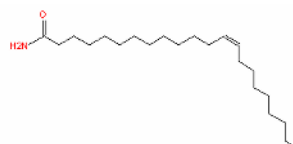
大きな夾雑ピークは無く、回収率は概ね良好である。

Scan Chromatogram



【夾雑成分】

- ① 不明
- ② Erucylamide



STQ-KIT
For STQ Method

Sample



Information

水分 : 95.9%
脂質 : 0.1%
脂肪酸 : 0.04%

レタスは外側変質葉及びしんを除去したものを、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
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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	119.1	151	Fluthiacet-methyl	98.1	226	Profenofos	82.1
2	3-Hydroxycarbofuran	St-	77	Cypermethrin-4	121.0	152	Flutolanil	101.1	227	Prohydrojasmon-1	96.1
3	4,4'-Dichlorobenzophenone	91.6	78	Cyproconazole-1	103.5	153	Flutriafol	70.4	228	Prohydrojasmon-2	St-
4	Acephate	ND	79	Cyproconazole-2	93.1	154	Fluvalinate-1	118.1	229	Prometryn	95.0
5	Acetamipride	ND	80	DEF(tribufos)	108.5	155	Fluvalinate-2	119.6	230	Propachlor	97.1
6	Acetochlor	98.5	81	Deltamethrin	52.7	156	Formothion	139.2	231	Propanil	79.2
7	Acrinathrin	119.3	82	Demeton-S-methyl	ND	157	Fosthiazate-1	86.0	232	Propaphos	72.3
8	Alachlor	96.6	83	Diallate-1	93.3	158	Fosthiazate-2	92.3	233	Propargite(BPPS)	98.9
9	Allethrin-1,2	St-	84	Diallate-2	99.6	159	Halfenprox	89.9	234	Propazine	94.8
10	Allethrin-3,4	95.3	85	Diazinone	96.3	160	Hexaconazole	101.0	235	Propiconazole-1	109.4
11	Ametryn	94.6	86	Dichlofenthion	96.2	161	Hexazinone	63.1	236	Propiconazole-2	98.5
12	Anilofos	102.1	87	Dichlofluanid	ND	162	Imazamethabenz methyl	77.7	237	Propoxur	90.8
13	Aramite-3	113.6	88	Dichlorvos	60.5	163	Imibenconazole	84.2	238	Propyzamide	95.1
14	Aramite-4	44.3	89	Diclocymet-1	93.1	164	Imibenconazole-des-benzyl	43.0	239	Prothiophos	97.6
15	Atrazine	94.6	90	Diclocymet-2	97.3	165	Iprobenfos	102.1	240	Pyraclofos	100.4
16	Azaconazole	95.3	91	Diclofop-methyl	100.4	166	Iprodione	147.5	241	Pyraflufen-ethyl	96.0
17	Azinphos-Methyl	119.1	92	Dicloran	96.2	167	Isazophos	92.2	242	Pyrazophos	100.9
18	Benalaxyl	98.7	93	Dicrotofos	ND	168	Isofenphos	93.9	243	Pyributicarb	94.5
19	Bendiocarb	113.1	94	Diethofencarb	91.2	169	Isofenphos P=O	98.2	244	Pyridaben	104.1
20	Benfluranlin	94.4	95	Difenoconazole-1	93.1	170	Isoprocarbe	95.2	245	Pyridafenthion	101.0
21	Benfuresate	99.0	96	Difenoconazole-2	90.8	171	Isoprothiolane	105.1	246	Pyrifenoxy-1	91.9
22	Benoxacor	97.7	97	Diflufenican	95.2	172	Isoxathion	112.1	247	Pyrifenoxy-2	98.1
23	BHC-alpha	90.9	98	Dimepiperate	97.5	173	Isoxathion-ox	121.3	248	Pyrimethanil	93.2
24	BHC-beta	91.7	99	Dimethametryn	98.6	174	Kresoxim-methyl	76.5	249	Pyrimidifen	94.5
25	BHC-gamma	94.0	100	Dimethenamid	96.8	175	Lenacil	74.0	250	Pyriminobac-methyl-1	103.8
26	BHC-delta	121.7	101	Dimethipin	93.1	176	Malathion	104.4	251	Pyriminobac-methyl-2	101.8
27	Bifenox	113.7	102	Dimethoate	32.1	177	Mecarbam	St-	252	Pyriproxyfen	103.1
28	Bifenthrin	95.7	103	Dimethylvinphos-z	98.5	178	Mefenacet	103.1	253	Pyroquilon	52.7
29	Bitertanol-1	81.7	104	Dioxathion	46.8	179	Mefenpyr-diethyl	97.3	254	Quinoclamine	78.9
30	Bitertanol-2	64.6	105	Diphenamide	98.3	180	Mepronil	103.6	255	Quinolophos	93.8
31	Bromacil	51.8	106	Disulfoton	ND	181	Metalaxyl	94.3	256	Quinomethionate	89.2
32	Bromobutide	98.5	107	Disulfoton sulfone	113.9	182	Methamidophos	ND	257	Quinoxifen	91.8
33	Bromofos methyl	94.6	108	Edifenphos	102.9	183	Methidathion	104.2	258	Quintozen	88.1
34	Bromophos-ethyl	99.6	109	Endosulfan	81.8	184	Methiocarb	134.5	259	Resmethrin-1	St-
35	Bromopropylate	100.8	110	Endosulfan II	83.5	185	Methoprene-1	St-	260	Resmethrin-2	55.4
36	Bupimate	106.2	111	Endosulfan sulfate	111.0	186	Methoprene-2	89.1	261	Silafluofen	75.0
37	Buprofezin	98.9	112	EPN	101.5	187	Methoxychlor	98.0	262	Simazin	85.0
38	Butachlor	95.6	113	Epoxiconazole	96.7	188	Metolachlor	100.4	263	Simetryn	90.0
39	Butamifos	114.1	114	EPTC	79.6	189	Metominostrobin-e	108.8	264	Spirodiclofen	81.4
40	Butylate	88.9	115	Esprocarb	98.1	190	Metominostrobin-z	105.1	265	Spiroxamine-1	91.2
41	Cadusafos	97.8	116	Ethalfuralin	88.7	191	Mevinphos	ND	266	Spiroxamine-2	90.2
42	Cafenstrole	105.9	117	Ethiofencarb	39.6	192	Monocrotophos	ND	267	TCMTB	St-
43	Captafol	St-	118	Ethion	111.8	193	Myclobutanil	95.5	268	Tebuconazole	97.4
44	Captan	St-	119	Ethofumesate	101.0	194	Napropamide	108.0	269	Tebufenpyrad	98.7
45	Carbaril	164.0	120	Ethoprophos	99.9	195	Nitrothal-isopropyl	101.8	270	Tecnazene	93.2
46	Carbofuran	97.6	121	Etofenprox	96.3	196	Norflurazon	75.7	271	Tefluthrine	92.6
47	Carboxin	45.4	122	Etoazale	106.2	197	Oryzalin	St-	272	Terbacil	74.8
48	Carfentrazone ethyl	103.2	123	Etrinfos	94.2	198	Oxadiazone	102.5	273	Terbufos	54.1
49	Chlorbenside	72.4	124	Fenamidone	90.1	199	Oxadixyl	70.2	274	Terbutryn	95.2
50	Chlorbufam	63.7	125	Fenamiphos	82.9	200	Oxyfluorfen	122.2	275	Tetrachlorvinphos	97.3
51	Chlorethoxyphos	94.7	126	Fenarimol	92.1	201	p,p'-DDD	97.3	276	Tetraconazole	98.7
52	Chlorfenapyr	98.7	127	Fenbuconazole	86.6	202	p,p'-DDE	88.2	277	Tetradifon	101.0
53	Chlorfenson	104.7	128	Fenchlorphos	93.4	203	Paclobutrazol	99.9	278	Thenylchlor	101.3
54	Chlorfenvinphos-1	94.1	129	Fenitrothion	101.2	204	Parathion	100.0	279	Thiobencarb	97.6
55	Chlorfenvinphos-2	103.0	130	Fenobucarb	99.0	205	Parathion-methyl	96.6	280	Thiometon	ND
56	Chlorobenzilate	95.6	131	Fenothiocarb	101.7	206	Penconazole	98.6	281	Tolclofos-methyl	98.3
57	Chloroneb	91.8	132	Fenoxanil	108.0	207	Pendimethalin	99.4	282	Tolfenpyrad	98.4
58	Chlorpropham	97.5	133	Fenpropathrin	108.4	208	Permethrin-cis	93.8	283	Toriadimefon	96.7
59	Chlorpyrifos	92.3	134	Fenpropemorph	93.9	209	Permethrin-trans	100.2	284	Triadimenol-1	91.8
60	Chlorpyrifos-methyl	94.9	135	Fensulfotthion	104.1	210	Perthane	99.2	285	Triadimenol-2	67.8
61	Chlorthal-dimethyl	94.0	136	Fenthion	70.5	211	Phenothrin-1	85.3	286	Triallate	85.6
62	Chlozoline	114.1	137	Fenvalerate-1	99.9	212	Phenothrin-2	98.4	287	Triazophos	94.6
63	Cinidon-ethyl	97.8	138	Fenvalerate-2	107.9	213	Phenthoate	81.9	288	Tricyclazole	ND
64	Ciomezone	99.3	139	FIPRONIL	91.4	214	Phorate	56.6	289	Trifloxystrobin	113.1
65	Cyanazine	83.1	140	Flamprop-methyl	97.9	215	Phosalone	108.0	290	Trifluralin	97.1
66	Cyanophos	94.8	141	Fluacrypyrim	96.1	216	Phosmet	151.7	291	Thifluzamide	51.5
67	Cyfluthrin-1	ND	142	Flucythrinate-1	102.9	217	Phosphamidon	85.8	292	Uniconazole	90.9
68	Cyfluthrin-2	107.0	143	Flucythrinate-2	103.8	218	Phthalide	94.5	293	Vinclozoline	94.3
69	Cyfluthrin-3	111.3	144	Fludioxonil	42.5	219	Picolinafen	105.2	294	XMC	93.5
70	Cyfluthrin-4	100.4	145	Flufenpyl-ethyl	99.3	220	Piperonyl butoxide	99.5	295	Zoxamide	167.4
71	Cyhalofop-butyl	106.3	146	Flumiclorac-pentyl	105.6	221	Piperophos	103.1			
72	Cyhalothrin-1	107.4	147	Flumioxazin	88.9	222	Pirimicarb	71.8			
73	Cyhalothrin-2	104.2	148	Fluquinconazole	110.7	223	Pirimiphos methyl	95.6			
74	Cypermethrin-1	99.4	149	Fluridone	47.8	224	Pretilachlor	96.4			
75	Cypermethrin-2	113.4	150	Flusilazole	107.3	225	Procymidone	90.7			

*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