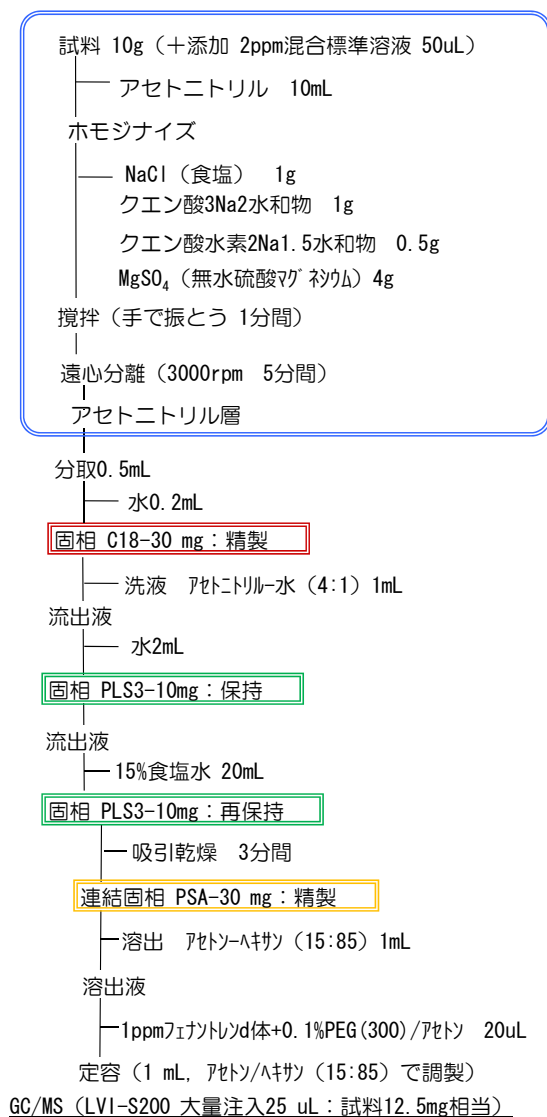


ほうれん草 MA-GCB1

前処理フロー

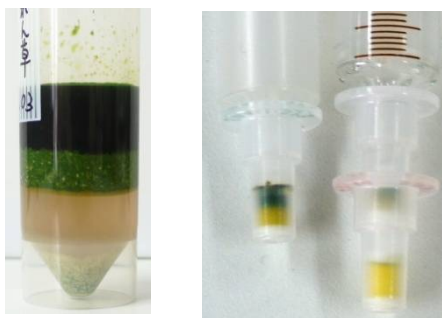


目的/実験方法

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)

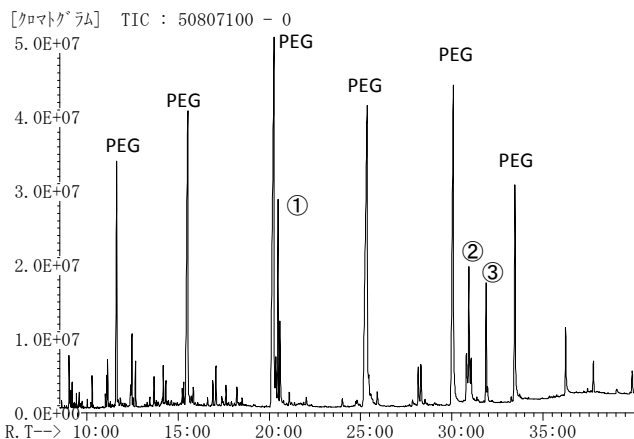


考察

RT20.5分付近でトリアジメノール1のピークに夾雑ピーク (SCANにはピーク出ない、フィトール) が重なり、解析に影響を与えている。

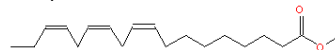
その他は大きな夾雑ピークは無く、概ね良好な回収率を得ることができた。

Scan Chromatogram



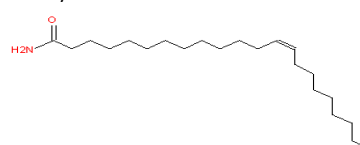
【夾雑成分】

- ① Methyl linolenate



- ② 不明

- ③ Erucylamide



STQ-KIT
For STQ Method

Sample



Information

水分 : 92.4%
脂質 : 0.4%
脂肪酸 : 0.23%

ほうれん草は、赤色根部を含み、ひげ根および変質葉を除去したものを、フードプロセッサーで細切。

AISTI SCIENCE

Product

LVI-S200
Smart-SPE C18-30
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
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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-4	93.6	151	Flutolanil	97.1	226	Prohydrojasmon-1	78.3
2	3-Hydroxycarbofuran	54.8	77	Cyproconazole-1	95.6	152	Flutriafol	82.7	227	Prohydrojasmon-2	St-
3	4,4'-Dichlorobenzophenone	95.6	78	Cyproconazole-2	95.0	153	Fluvalinate-1	92.4	228	Prometryn	88.5
4	Acephate	ND	79	DEF(tribufos)	91.1	154	Fluvalinate-2	94.2	229	Propachlor	79.0
5	Acetamipride	ND	80	Deltamethrin	90.5	155	Formothion	76.0	230	Propanil	94.4
6	Acetochlor	76.7	81	Demeton-S-methyl	31.3	156	Fosthiazate-1	76.4	231	Propaphos	77.8
7	Acrinathrin	107.8	82	Diallate-1	86.5	157	Fosthiazate-2	80.7	232	Propargite(BPPS)	86.3
8	Alachlor	91.9	83	Diallate-2	99.1	158	Halfenprox	87.6	233	Propazine	92.8
9	Allethrin-1,2	St-	84	Diazinone	86.3	159	Hexaconazole	93.8	234	Propiconazole-1	95.4
10	Allethrin-3,4	86.2	85	Dichlofenthion	90.6	160	Hexazinone	47.5	235	Propiconazole-2	95.5
11	Ametryn	87.8	86	Dichlofluanid	ND	161	Imazamethabenz methyl	58.6	236	Propoxur	66.1
12	Anilofos	114.0	87	Dichlorvos	44.0	162	Imibenconazole	92.5	237	Propyzamide	90.9
13	Aramite-3	96.2	88	Diclocymet-1	85.9	163	Imibenconazole-des-benzyl	ND	238	Prothiophos	93.7
14	Aramite-4	99.9	89	Diclocymet-2	91.2	164	Iprobenfos	94.0	239	Pyraclufos	96.2
15	Atrazine	85.1	90	Diclofop-methyl	96.4	165	Iprodione	98.2	240	Pyraflufen-ethyl	96.6
16	Azaconazole	87.9	91	Dicloran	90.3	166	Isazophos	92.5	241	Pyrazophos	99.9
17	Azinphos-Methyl	107.7	92	Dicrotofos	ND	167	Isofenphos	97.8	242	Pyributicarb	92.8
18	Benalaxyl	102.1	93	Diethofencarb	93.5	168	Isofenphos P=O	99.2	243	Pyridaben	103.4
19	Bendiocarb	79.1	94	Difenoconazole-1	92.7	169	Isoprocarbe	79.3	244	Pyridafenthion	98.4
20	Benfluranlin	93.0	95	Difenoconazole-2	95.5	170	Isoprothiolane	92.4	245	Pyrifeno-x1	81.9
21	Benfuresate	95.5	96	Diflufenican	95.7	171	Isoxathion	84.3	246	Pyrifeno-x2	87.3
22	Benoxacor	87.0	97	Dimepiperate	83.5	172	Isoxathion-ox	70.9	247	Pyrimethanil	84.7
23	BHC-alpha	95.8	98	Dimethametryn	95.0	173	Kresoxim-methyl	94.1	248	Pyrimidifen	92.4
24	BHC-beta-gamma	81.8	99	Dimethenamid	89.1	174	Lenacil	73.7	249	Pyriminobac-methyl-1	95.6
25	BHC-delta	98.6	100	Dimethipin	84.3	175	Malathion	97.0	250	Pyriminobac-methyl-2	91.8
26	Bifenox	111.9	101	Dimethoate	ND	176	Mecarbam	85.5	251	Pyriproxyfen	102.7
27	Bifenthrin	86.2	102	Dimethylvinphos-z	94.3	177	Mefenacet	106.4	252	Pyroquilon	40.6
28	Bitertanol-1	107.6	103	Dioxathion	84.2	178	Mefenpyr-diethyl	97.7	253	Quinoclamine	80.5
29	Bitertanol-2	96.2	104	Diphenamide	91.2	179	Mepronil	103.0	254	Quinolophos	82.7
30	Bromacil	52.4	105	Disulfoton	ND	180	Metalaxyl	75.9	255	Quinomethionate	75.2
31	Bromobutide	90.4	106	Disulfoton sulfone	97.8	181	Methamidophos	ND	256	Quinoxifen	89.2
32	Bromofos methyl	96.7	107	Edifenphos	98.2	182	Methidathion	93.0	257	Quintozen	92.6
33	Bromophos-ethyl	93.6	108	Endosulfan	83.9	183	Methiocarb	97.5	258	Resmethrin-1	St-
34	Bromopropylate	99.2	109	Endosulfan II	87.8	184	Methoprene-1	116.2	259	Resmethrin-2	81.9
35	Bupimate	94.0	110	Endosulfan sulfate	91.6	185	Methoprene-2	68.2	260	Silaflofen	75.6
36	Buprofezin	97.0	111	EPN	100.4	186	Methoxychlor	79.0	261	Simazin	64.5
37	Butachlor	83.4	112	Epoxiconazole	94.8	187	Metolachlor	94.5	262	Simetryn	75.6
38	Butamifos	98.2	113	EPTC	81.4	188	Metominostrobin-e	93.4	263	Spirodiclofen	90.9
39	Butylate	77.7	114	Esprocarb	95.1	189	Metominostrobin-z	91.7	264	Spiroxamine-1	70.5
40	Cadusafos	93.7	115	Ethalfuralin	90.5	190	Mevinphos	ND	265	Spiroxamine-2	72.0
41	Cafenstrole	110.9	116	Ethiofencarb	46.0	191	Monocrotophos	ND	266	TCMTB	40.8
42	Captafol	St-	117	Ethion	102.8	192	Myclobutanil	93.4	267	Tebuconazole	97.4
43	Captan	St-	118	Ethofumesate	92.3	193	Napropamide	98.3	268	Tebufenpyrad	100.5
44	Carbaril	95.5	119	Ethoprophos	89.9	194	Nitrothal-isopropyl	94.1	269	Tecnazene	87.7
45	Carbofuran	74.7	120	Etofenprox	93.9	195	Norflurazon	83.1	270	Tefluthrine	88.9
46	Carboxin	63.4	121	Etoazole	94.3	196	Oryzalin	ND	271	Terbacil	54.7
47	Carfentrazone ethyl	99.9	122	Etrimfos	92.3	197	Oxadiazone	93.4	272	Terbufos	66.8
48	Chlorbenside	76.6	123	Fenamidone	104.3	198	Oxadixyl	40.6	273	Terbutryn	93.7
49	Chlorbufam	81.5	124	Fenamiphos	86.6	199	Oxyfluorfen	96.9	274	Tetrachlorvinphos	98.7
50	Chlorethoxyphos	90.1	125	Fenarimol	97.8	200	p,p'-DDD	95.6	275	Tetraconazole	94.1
51	Chlorfenapyr	90.3	126	Fenbuconazole	95.0	201	p,p'-DDE	83.2	276	Tetradifon	92.2
52	Chlorfenson	95.1	127	Fenchlorphos	94.6	202	Pacllobutrazol	93.2	277	Thenylchlor	92.7
53	Chlorfenvinphos-1	86.7	128	Fenitrothion	101.3	203	Parathion	97.2	278	Thiobencarb	95.1
54	Chlorfenvinphos-2	92.9	129	Fenobucarb	89.6	204	Parathion-methyl	87.7	279	Thiometon	38.3
55	Chlorobenzilate	99.4	130	Fenothiocarb	92.3	205	Penconazole	94.2	280	Tolclofos-methyl	95.8
56	Chloroneb	81.9	131	Fenoxanil	95.8	206	Pendimethalin	94.1	281	Tolfenpyrad	95.0
57	Chlorpropham	93.1	132	Fenpropathrin	95.0	207	Permethrin-cis	99.8	282	Toriadimefon	96.2
58	Chlorpyrifos	96.8	133	Fenpropemorph	89.6	208	Permethrin-trans	99.2	283	Triadimenol-1	111.4
59	Chlorpyrifos-methyl	95.0	134	Fensulfotion	100.0	209	Perthane	95.3	284	Triadimenol-2	91.3
60	Chlorthal-dimethyl	94.1	135	Fenthion	74.8	210	Phenothrin-1	103.2	285	Triallate	85.9
61	Chlozolinate	96.8	136	Fenvalerate-1	90.8	211	Phenothrin-2	99.6	286	Triazophos	99.8
62	Cinidon-ethyl	98.6	137	Fenvalerate-2	89.2	212	Phenthoate	93.5	287	Tricyclazole	ND
63	Clomazone	93.1	138	FIPRONIL	94.3	213	Phorate	71.8	288	Trifloxystrobin	101.9
64	Cyanazine	74.3	139	Flamprop-methyl	95.6	214	Phosalone	103.5	289	Trifluralin	95.2
65	Cyanophos	93.2	140	Fluacrypyrim	95.7	215	Phosmet	102.7	290	Thifluzamide	68.0
66	Cyfluthrin-1	109.8	141	Flucythrinate-1	101.8	216	Phosphamidon	59.6	291	Uniconazole	98.7
67	Cyfluthrin-2	94.3	142	Flucythrinate-2	104.5	217	Phthalide	95.7	292	Vinclozoline	90.8
68	Cyfluthrin-3	97.4	143	Fludioxonil	67.6	218	Picolinafen	100.5	293	XMC	85.1
69	Cyfluthrin-4	104.1	144	Flufenpyl-ethyl	100.6	219	Piperonyl butoxide	95.3	294	Zoxamide	83.8
70	Cyhalofop-butyl	104.0	145	Flumiclorac-pentyl	104.4	220	Piperophos	100.2			
71	Cyhalothrin-1	102.5	146	Flumioxazin	96.6	221	Pirimicarb	38.3			
72	Cyhalothrin-2	99.6	147	Fluquinconazole	103.8	222	Pirimiphos methyl	95.2			
73	Cypermethrin-1	94.9	148	Fluridone	71.5	223	Pretilachlor	96.2			
74	Cypermethrin-2	109.3	149	Flusilazole	96.8	224	Procymidone	92.1			
75	Cypermethrin-3	95.4	150	Fluthiacet-methyl	92.9	225	Profenofos	98.0			

*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-