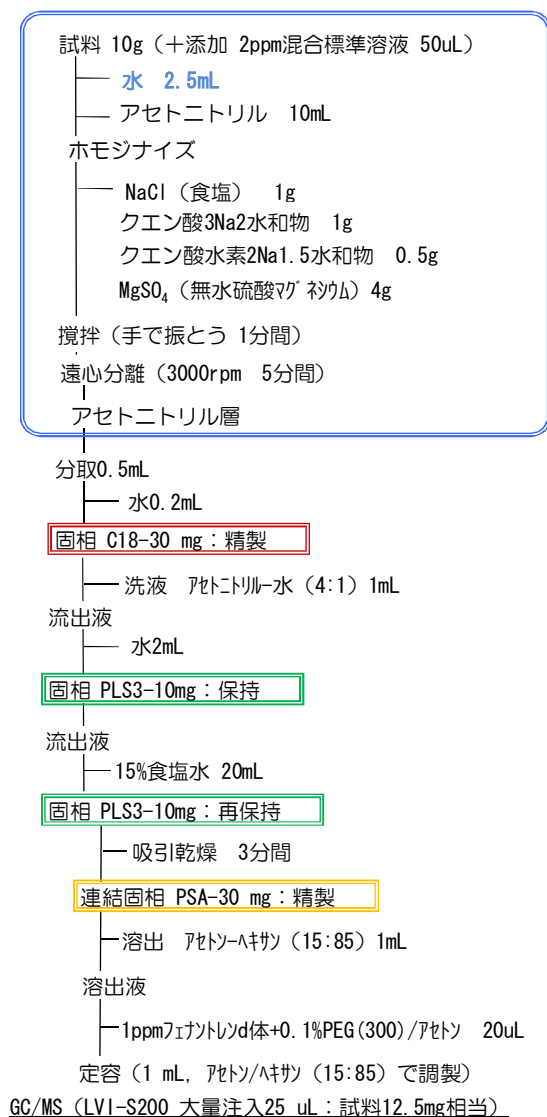


バナナ MA-GCB1

前処理フロー



目的/実験方法

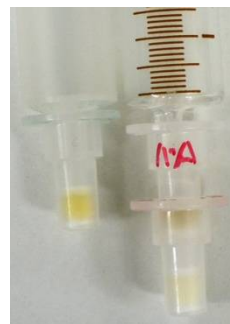
手作業による添加回収試験 (GC-B1法)

- 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)

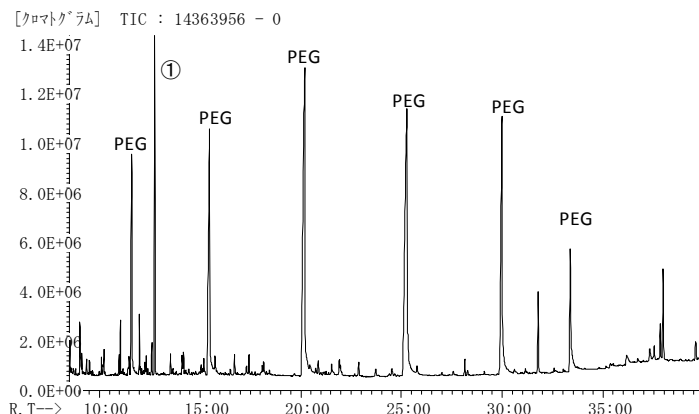


考察

大きな夾雑ピークは無く、概ね良好な回収率を得ることができた。

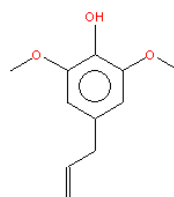
未知検体からクロロフェナピル、クロロピリホスが発見された。

Scan Chromatogram



【夾雑成分】

① Methoxyeugenol



STQ-KIT
For STQ Method

Sample



Information

水分 : 75.1%
脂質 : 0.2%
脂肪酸 : 0 %

水分量が少ないため抽出時に水2.5mLを添加。

バナナは、果柄部を除去したものを皮ごと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	115.0	151	Fluthiacet-methyl	113.1	226	Profenofos	111.0
2	3-Hydroxycarbofuran	33.8	77	Cypermethrin-4	132.3	152	Flutolanil	114.7	227	Prohydrojasmon-1	103.3
3	4,4'-Dichlorobenzophenone	111.2	78	Cyproconazole-1	109.6	153	Flutriafol	75.1	228	Prohydrojasmon-2	St-
4	Acephate	ND	79	Cyproconazole-2	123.0	154	Fluvalinate-1	112.6	229	Prometryn	112.5
5	Acetamipride	ND	80	DEF(tribufos)	113.9	155	Fluvalinate-2	116.2	230	Propachlor	107.5
6	Acetochlor	107.0	81	Deltamethrin	141.7	156	Formothion	99.4	231	Propanil	82.2
7	Acrinathrin	115.6	82	Demeton-S-methyl	ND	157	Fosthiazate-1	105.0	232	Propaphos	80.8
8	Alachlor	116.7	83	Diallate-1	105.8	158	Fosthiazate-2	110.9	233	Propargite(BPPS)	111.0
9	Allethrin-1,2	St-	84	Diallate-2	107.5	159	Halfenprox	93.2	234	Propazine	108.4
10	Allethrin-3,4	108.4	85	Diazinone	110.7	160	Hexaconazole	114.8	235	Propiconazole-1	111.0
11	Ametryn	112.6	86	Dichlofenthion	109.0	161	Hexazinone	69.3	236	Propiconazole-2	110.5
12	Anilofos	112.4	87	Dichlofluanid	117.0	162	Imazamethabenz methyl	81.8	237	Propoxur	103.0
13	Aramite-3	115.1	88	Dichlorvos	61.0	163	Imibenconazole	102.1	238	Propyzamide	105.9
14	Aramite-4	125.4	89	Diclocymet-1	103.8	164	Imibenconazole-des-benzyl	45.9	239	Prothiophos	106.2
15	Atrazine	109.1	90	Diclocymet-2	108.1	165	Iprobenfos	110.8	240	Pyraclofos	109.6
16	Azaconazole	108.9	91	Diclofop-methyl	114.5	166	Iprodione	113.2	241	Pyraflufen-ethyl	108.9
17	Azinphos-Methyl	112.9	92	Dicloran	119.1	167	Isazophos	106.4	242	Pyrazophos	116.5
18	Benalaxyl	119.4	93	Dicrtofios	ND	168	Isofenphos	113.7	243	Pyributicarb	106.8
19	Bendiocarb	107.4	94	Diethofencarb	116.3	169	Isofenphos P=O	115.8	244	Pyridaben	106.3
20	Benfluranlin	114.0	95	Difenoconazole-1	110.9	170	Isoprocab	68.0	245	Pyridafenthion	106.9
21	Benfuresate	110.2	96	Difenoconazole-2	110.6	171	Isoprothiolane	117.3	246	Pyrifeno-x-1	106.1
22	Benoxacor	115.4	97	Diflufenican	105.3	172	Isoxathion	118.0	247	Pyrifeno-x-2	107.9
23	BHC-alpha	108.1	98	Dimepiperate	112.0	173	Isoxathion-ox	118.4	248	Pyrimethanil	109.6
24	BHC-beta	99.7	99	Dimethametryn	112.7	174	Kresoxim-methyl	114.6	249	Pyrimidifen	105.3
25	BHC-gamma	106.8	100	Dimethenamid	115.2	175	Lenacil	89.8	250	Pyriminobac-methyl-1	115.4
26	BHC-delta	103.9	101	Dimethipin	102.1	176	Malathion	118.1	251	Pyriminobac-methyl-2	112.9
27	Bifenox	110.2	102	Dimethoate	38.4	177	Mecarbam	St-	252	Pyriproxyfen	117.7
28	Bifenthrin	105.5	103	Dimethylvinphos-z	117.4	178	Mefenacet	112.2	253	Pyroquilon	53.3
29	Bitertanol-1	97.5	104	Dioxathion	36.2	179	Mefenpyr-diethyl	112.6	254	Quinoclamine	106.8
30	Bitertanol-2	80.8	105	Diphenamide	116.7	180	Mepronil	115.2	255	Quinolphos	107.8
31	Bromacil	66.3	106	Disulfoton	ND	181	Metalaxyl	103.8	256	Quinomethionate	83.6
32	Bromobutide	116.9	107	Disulfoton sulfone	118.0	182	Methamidophos	ND	257	Quinoxifen	105.9
33	Bromofos methyl	110.2	108	Edifenphos	118.3	183	Methidathion	114.4	258	Quintozen	104.9
34	Bromophos-ethyl	112.8	109	Endosulfan	105.4	184	Methiocarb	118.4	259	Resmethrin-1	St-
35	Bromopropylate	115.3	110	Endosulfan II	99.6	185	Methoprene-1	St-	260	Resmethrin-2	89.6
36	Bupimate	114.4	111	Endosulfan sulfate	116.3	186	Methoprene-2	106.8	261	Silafluofen	85.0
37	Buprofezin	109.9	112	EPN	112.9	187	Methoxychlor	114.7	262	Simazin	95.6
38	Butachlor	108.7	113	Epoxiconazole	111.4	188	Metolachlor	119.2	263	Simetryn	107.3
39	Butamifos	115.0	114	EPTC	104.6	189	Metaminostrobin-e	113.5	264	Spirodiclofen	113.5
40	Butylate	101.1	115	Esprocarb	113.0	190	Metaminostrobin-z	112.0	265	Spiroxamine-1	105.0
41	Cadusafos	105.3	116	Ethalfuralin	118.7	191	Mevinphos	32.3	266	Spiroxamine-2	109.7
42	Cafenstrole	104.6	117	Ethiofencarb	ND	192	Monocrotophos	ND	267	TCMTB	117.1
43	Captafol	St-	118	Ethion	116.3	193	Myclobutanil	110.7	268	Tebuconazole	110.1
44	Captan	107.1	119	Ethofumesate	117.8	194	Napropamide	114.2	269	Tebufenpyrad	108.7
45	Carbaril	121.3	120	Ethoprophos	109.1	195	Nitrothal-isopropyl	103.9	270	Tecnazene	112.5
46	Carbofuran	106.5	121	Etofenprox	106.9	196	Norflurazon	91.4	271	Tefluthrine	103.7
47	Carboxin	52.3	122	Ettoxazole	115.9	197	Oryzalin	St-	272	Terbacil	93.5
48	Carfentrazone ethyl	116.2	123	Etrinfos	107.2	198	Oxadiazon	116.2	273	Terbufos	59.9
49	Chlorbenside	85.0	124	Fenamidone	107.3	199	Oxadixyl	88.9	274	Terbutryn	116.1
50	Chlorbufam	83.8	125	Fenamiphol	92.8	200	Oxyfluorfen	113.5	275	Tetrachlorvinphos	116.7
51	Chlorethoxyphos	109.1	126	Fenarimol	112.8	201	p,p'-DDD	113.5	276	Tetraconazole	110.8
52	Chlorfenapyr	224.4	127	Fenbuconazole	100.0	202	p,p'-DDE	97.0	277	Tetradifon	116.2
53	Chlorfenson	114.0	128	Fenchlorphos	108.4	203	Paclobutrazol	109.6	278	Thenylchlor	112.8
54	Chlorfenvinphos-1	103.8	129	Fenitrothion	118.3	204	Parathion	106.9	279	Thiobencarb	117.8
55	Chlorfenvinphos-2	117.9	130	Fenobucarb	116.5	205	Parathion-methyl	108.6	280	Thiometon	ND
56	Chlorobenzilate	116.9	131	Fenothiocarb	113.6	206	Penconazole	112.4	281	Tolclofos-methyl	103.8
57	Chloroneb	99.0	132	Fenoxanil	115.6	207	Pendimethalin	112.5	282	Tolfenpyrad	109.6
58	Chlorpropham	111.3	133	Fenprothrin	117.3	208	Permethrin-cis	100.5	283	Toriadimefon	113.1
59	Chlorpyrifos	157.2	134	Fenpropemorph	112.2	209	Permethrin-trans	104.4	284	Triadimenol-1	101.4
60	Chlorpyrifos-methyl	108.8	135	Fensulfotthion	119.0	210	Perthane	107.1	285	Triadimenol-2	86.0
61	Chlorthal-dimethyl	113.1	136	Fenthion	83.7	211	Phenothrin-1	81.2	286	Triallate	97.2
62	Chlozolinate	115.9	137	Fenvalerate-1	109.9	212	Phenothrin-2	110.9	287	Triazophos	109.5
63	Cinidon-ethyl	114.9	138	Fenvalerate-2	111.1	213	Phenthoate	116.1	288	Tricyclazole	ND
64	Clomazone	114.5	139	FIPRONIL	112.0	214	Phorate	74.0	289	Trifloxystrobin	121.4
65	Cyanazine	102.3	140	Flamprop-methyl	111.8	215	Phosalone	120.7	290	Trifluralin	110.0
66	Cyanophos	105.8	141	Fluacrypyrim	113.2	216	Phosmet	119.2	291	Thifluzamide	67.2
67	Cyfluthrin-1	83.2	142	Flucythrinate-1	115.3	217	Phosphamidon	95.3	292	Uniconazole	108.0
68	Cyfluthrin-2	104.2	143	Flucythrinate-2	116.6	218	Phthalide	118.1	293	Vinclozoline	101.7
69	Cyfluthrin-3	120.8	144	Fludioxonil	50.0	219	Picolinafen	114.1	294	XMC	110.8
70	Cyfluthrin-4	109.1	145	Flufenpyl-ethyl	113.7	220	Piperonyl butoxide	114.3	295	Zoxamide	123.8
71	Cyhalofop-butyl	115.9	146	Flumiclorac-pentyl	108.5	221	Piperophos	104.6			
72	Cyhalothrin-1	115.7	147	Flumioxazin	106.7	222	Pirimicarb	76.6			
73	Cyhalothrin-2	108.1	148	Fluquinacozazole	112.9	223	Pirimiphos methyl	108.9			
74	Cypermethrin-1	109.1	149	Fluridone	57.0	224	Pretilachlor	114.2			
75	Cypermethrin-2	126.4	150	Flusilazole	113.5	225	Procymidone	108.3			

* PEG共注に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