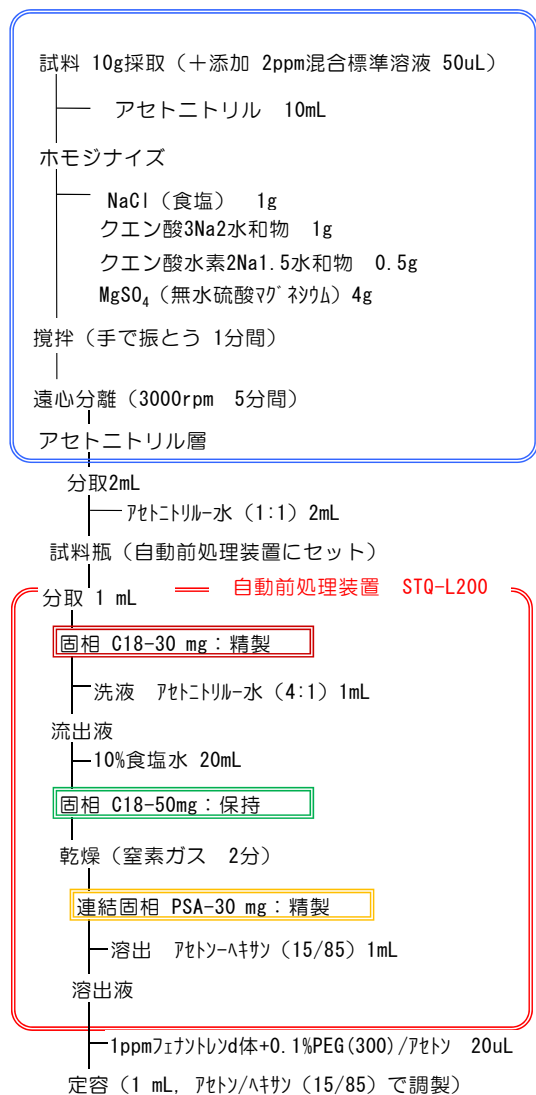


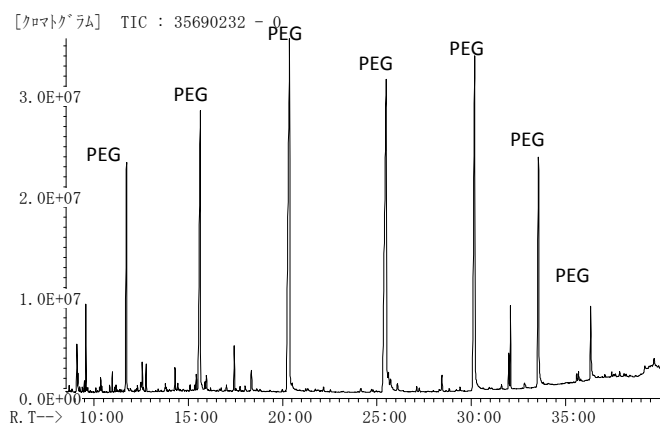
ミニトマト L-GCB1

前処理フロー



GC/MS (LVI-S200 大量注入25 μ L : 試料12.5mg相当)

Scan Chromatogram

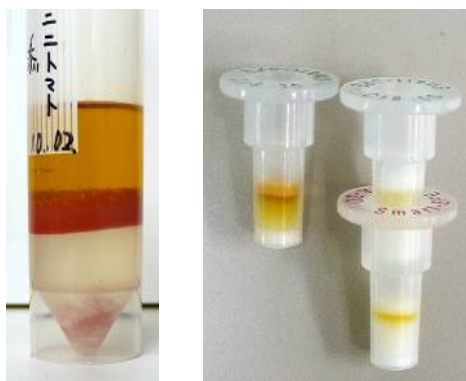


目的/実験方法

自動前処理装置STQ-L200を用いた 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, C18-50+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。



STQ-L200
For STQ Method

Sample



Information

水分 : 91.0%
脂質 : 0.1%
脂肪酸 : 0.05%

ミニトマトは、へた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
STQ-L200
Smart-SPE C18-30
Smart-SPE C18-50
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-4	91.0	151	Flutolanil	106.2	226	Prohydrojasmon-1	97.8
2	3-Hydroxycarbofuran	ND	77	Cyproconazole-1	115.9	152	Flutriafol	100.5	227	Prohydrojasmon-2	115.4
3	4,4'-Dichlorobenzophenone	93.1	78	Cyproconazole-2	110.7	153	Fluvalinate-1	85.4	228	Prometryn	104.7
4	Acephate	ND	79	DEF(tribufos)	87.4	154	Fluvalinate-2	85.1	229	Propachlor	105.9
5	Acetamipride	ND	80	Deltamethrin	92.9	155	Formothion	43.8	230	Propanil	119.9
6	Acetochlor	105.8	81	Demeton-S-methyl	85.4	156	Fosthiazate-1	111.9	231	Propaphos	113.4
7	Acrinathrin	91.1	82	Diallate-1	91.9	157	Fosthiazate-2	110.5	232	Propargite(BPPS)	81.9
8	Alachlor	100.8	83	Diallate-2	93.5	158	Halfenprox	83.9	233	Propazine	107.6
9	Allethrin-1,2	St-	84	Diazinone	100.5	159	Hexaconazole	109.6	234	Propiconazole-1	117.3
10	Allethrin-3,4	92.8	85	Dichlofenthion	86.6	160	Hexazinone	54.8	235	Propiconazole-2	108.7
11	Ametryn	106.0	86	Dichlofluanid	36.4	161	Imazamethabenz methyl	86.1	236	Propoxur	64.9
12	Anilofos	118.7	87	Dichlorvos	44.0	162	Imibenconazole	109.3	237	Propyzamide	101.3
13	Aramite-3	97.8	88	Diclocymet-1	106.5	163	Imibenconazole-des-benzyl	31.1	238	Prothiophos	81.1
14	Aramite-4	91.6	89	Diclocymet-2	115.0	164	Iprobenfos	107.1	239	Pyraclufos	108.3
15	Atrazine	103.2	90	Diclofop-methyl	92.4	165	Iprodione	95.6	240	Pyraflufen-ethyl	107.5
16	Azaconazole	106.4	91	Dicloran	100.7	166	Isazophos	100.7	241	Pyrazophos	109.6
17	Azinphos-Methyl	123.9	92	Dicrototos	ND	167	Isofenphos	105.6	242	Pyributicarb	92.1
18	Benalaxyl	112.7	93	Diethofencarb	108.5	168	Isofenphos P=O	109.3	243	Pyridaben	92.8
19	Bendiocarb	84.9	94	Difenoconazole-1	109.5	169	Isoprocarbe	103.6	244	Pyridafenthion	122.9
20	Benfluranlin	90.0	95	Difenoconazole-2	107.0	170	Isoprothiolane	108.4	245	Pyrifenoxy-1	98.8
21	Benfuresate	106.4	96	Diflufenican	101.5	171	Isoxathion	87.6	246	Pyrifenoxy-2	96.5
22	Benoxacor	106.9	97	Dimepiperate	97.6	172	Isoxathion-ox	112.4	247	Pyrimethanil	101.4
23	BHC-alpha	97.9	98	Dimethametryn	105.9	173	Kresoxim-methyl	103.6	248	Pyrimidifen	99.8
24	BHC-beta-gamma	93.3	99	Dimethenamid	113.1	174	Lenacil	94.6	249	Pyriminobac-methyl-1	112.5
25	BHC-delta	89.9	100	Dimethipin	113.6	175	Malathion	104.6	250	Pyriminobac-methyl-2	108.6
26	Bifenox	108.5	101	Dimethoate	ND	176	Mecarbam	105.6	251	Pyriproxyfen	91.3
27	Bifenthrin	86.3	102	Dimethylvinphos-z	115.9	177	Mefenacet	112.2	252	Pyroquilon	38.7
28	Bitertanol-1	113.3	103	Dioxathion	92.7	178	Mefenpyr-diethyl	108.5	253	Quinoclamine	ND
29	Bitertanol-2	105.8	104	Diphenamide	109.7	179	Mepronil	110.0	254	Quinolphos	101.1
30	Bromacil	ND	105	Disulfoton	104.7	180	Metalaxyl	116.0	255	Quinomethionate	80.0
31	Bromobutide	99.5	106	Disulfoton sulfone	101.3	181	Methamidophos	ND	256	Quinoxyfen	86.1
32	Bromofos methyl	89.5	107	Edifenphos	116.7	182	Methidathion	105.2	257	Quintozen	84.7
33	Bromophos-ethyl	80.4	108	Endosulfan	82.0	183	Methiocarb	95.0	258	Resmethrin-1	92.2
34	Bromopropylate	95.5	109	Endosulfan II	98.7	184	Methoprene-1	78.1	259	Resmethrin-2	90.7
35	Bupimate	108.9	110	Endosulfan sulfate	109.6	185	Methoprene-2	76.5	260	Silafuofen	69.1
36	Buprofezin	101.9	111	EPN	106.4	186	Methoxychlor	91.1	261	Simazin	41.6
37	Butachlor	95.2	112	Epoxiconazole	111.9	187	Metolachlor	108.0	262	Simetryn	93.4
38	Butamifos	97.5	113	EPTC	95.7	188	Metominostrobin-e	112.8	263	Spirodiclofen	86.9
39	Butylate	85.4	114	Esprocarb	89.8	189	Metominostrobin-z	110.9	264	Spiroxamine-1	98.8
40	Cadusafos	107.8	115	Ethalfuralin	95.0	190	Mevinphos	ND	265	Spiroxamine-2	113.8
41	Cafenstrole	110.7	116	Ethiofencarb	129.4	191	Monocrotophos	ND	266	TCMTB	76.8
42	Captafol	St-	117	Ethion	94.6	192	Myclobutanil	110.4	267	Tebuconazole	110.1
43	Captan	57.7	118	Ethofumesate	104.7	193	Napropamide	110.2	268	Tebufenpyrad	98.7
44	Carbaril	83.4	119	Ethoprophos	107.2	194	Nitrothal-isopropyl	95.9	269	Tecnazene	92.7
45	Carbofuran	81.5	120	Etofenprox	86.2	195	Norflurazon	104.3	270	Tefluthrine	84.4
46	Carboxin	120.9	121	Etoxazole	89.2	196	Oryzalin	St-	271	Terbacil	30.7
47	Carfentrazone ethyl	108.1	122	Etrinfos	100.4	197	Oxadiazone	96.9	272	Terbufos	89.1
48	Chlorbendide	75.8	123	Fenamidone	117.6	198	Oxadixyl	62.4	273	Terbutryn	104.7
49	Chlorbufam	89.5	124	Fenamiphos	111.0	199	Oxyfluorfe	93.1	274	Tetrachlorvinphos	107.7
50	Chlorethoxyphos	88.6	125	Fenarimol	110.5	200	p,p'-DDD	85.8	275	Tetraconazole	111.8
51	Chlorfenapyr	94.3	126	Fenbuconazole	108.4	201	p,p'-DDE	75.9	276	Tetradifon	92.1
52	Chlorfenfos	103.4	127	Fenchlorphos	93.4	202	Pacllobutrazol	104.1	277	Thenylchlor	109.1
53	Chlorfenvinphos-1	98.8	128	Fenitrothion	103.0	203	Parathion	99.9	278	Thiobencarb	98.7
54	Chlorfenvinphos-2	107.9	129	Fenobucarb	107.4	204	Parathion-methyl	106.0	279	Thiometon	118.6
55	Chlorobenzilate	102.4	130	Fenothiocarb	100.9	205	Penconazole	113.3	280	Tolclofos-methyl	99.1
56	Chloroneb	98.1	131	Fenoxanil	105.2	206	Pendimethalin	88.9	281	Tolfenpyrad	93.1
57	Chlorpropham	112.1	132	Fenpropathrin	90.9	207	Permethrin-cis	87.5	282	Toriadimefon	107.9
58	Chlorpyrifos	86.8	133	Fenpropemorph	99.7	208	Permethrin-trans	88.8	283	Triadimenol-1	105.6
59	Chlorpyrifos-methyl	94.4	134	Fensulfthion	105.0	209	Perthane	89.7	284	Triadimenol-2	110.7
60	Chlorthal-dimethyl	98.9	135	Fenthion	103.2	210	Phenothrin-1	93.5	285	Triallate	81.2
61	Chlozolate	100.7	136	Fenvalerate-1	88.7	211	Phenothrin-2	87.0	286	Triazophos	116.4
62	Cinidon-ethyl	104.1	137	Fenvalerate-2	90.6	212	Phenthoate	100.9	287	Tricyclazole	69.5
63	Clomazone	107.2	138	FIPRONIL	107.6	213	Phorate	100.9	288	Trifloxystrobin	106.5
64	Cyanazine	65.0	139	Flamprop-methyl	109.2	214	Phosalone	103.5	289	Trifluralin	89.6
65	Cyanophos	106.2	140	Fluacrypyrim	109.6	215	Phosmet	108.7	290	Thifluzamide	70.3
66	Cyfluthrin-1	76.6	141	Flucythrinate-1	92.9	216	Phosphamidon	89.0	291	Uniconazole	112.4
67	Cyfluthrin-2	87.6	142	Flucythrinate-2	93.4	217	Phthalide	102.7	292	Vinclozoline	106.3
68	Cyfluthrin-3	85.6	143	Fludioxonil	98.3	218	Picolinafen	100.7	293	XMC	93.4
69	Cyfluthrin-4	98.9	144	Flufenpyl-ethyl	107.5	219	Piperonyl butoxide	103.3	294	Zoxamide	98.1
70	Cyhalofop-butyl	104.8	145	Flumiclorac-pentyl	99.9	220	Piperophos	111.4			
71	Cyhalothrin-1	97.2	146	Flumioxazin	116.3	221	Pirimicarb	76.7			
72	Cyhalothrin-2	95.5	147	Fluquinconazole	109.7	222	Pirimiphos methyl	93.3			
73	Cypermethrin-1	85.5	148	Fluridone	95.0	223	Pretilachlor	104.5			
74	Cypermethrin-2	97.3	149	Flusilazole	111.5	224	Procymidone	103.9			
75	Cypermethrin-3	87.8	150	Fluthiacet-methyl	104.8	225	Profenofos	109.3			

*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-