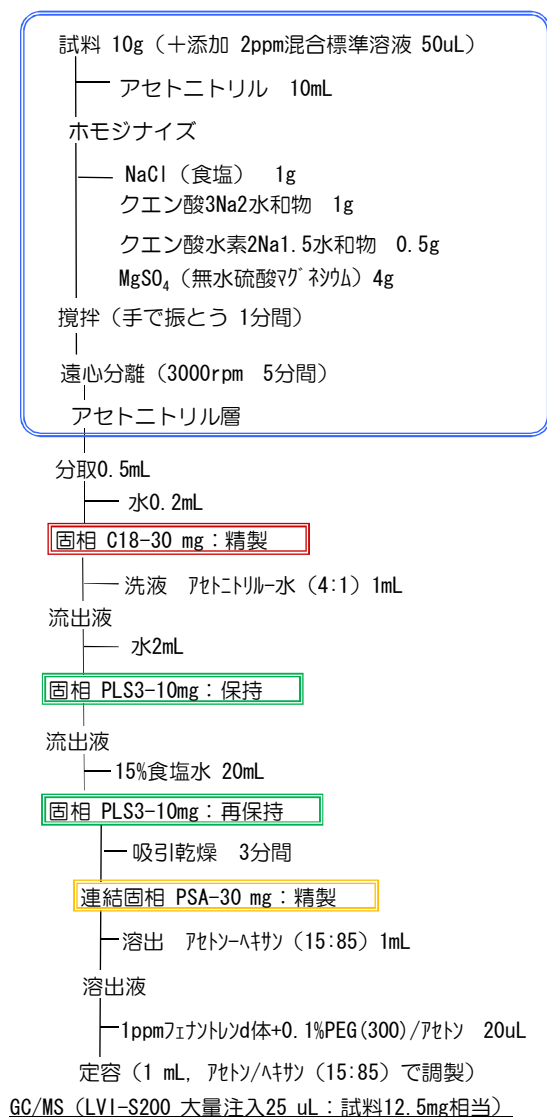


ミニトマト MA-GCB1

前処理フロー



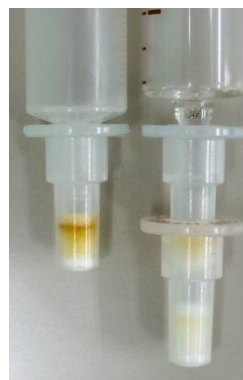
目的/実験方法

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

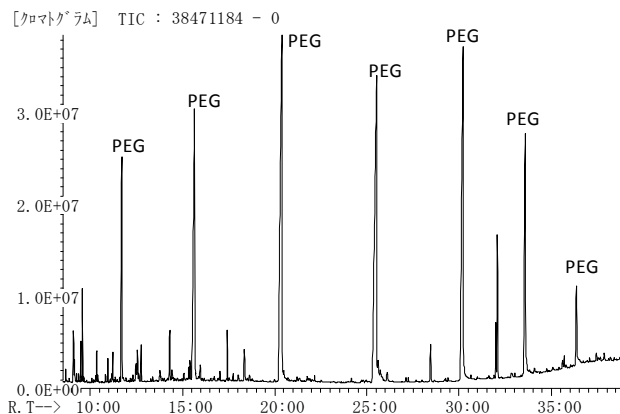
②固相 (C18-30, PLS+PSA)



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。

Scan Chromatogram



STQ-KIT
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
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-4	111.4	151	Flutolanil	108.4	226	Prohydrojasmon-1	112.1
2	3-Hydroxycarbofuran	ND	77	Cyproconazole-1	108.5	152	Flutriafol	56.1	227	Prohydrojasmon-2	118.8
3	4,4'-Dichlorobenzophenone	101.5	78	Cyproconazole-2	104.4	153	Fluvalinate-1	123.7	228	Prometryn	109.4
4	Acephate	ND	79	DEF(tribufos)	102.3	154	Fluvalinate-2	123.4	229	Propachlor	98.0
5	Acetamipride	ND	80	Deltamethrin	104.8	155	Formothion	83.0	230	Propanil	107.1
6	Acetochlor	110.3	81	Demeton-S-methyl	50.9	156	Fosthiazate-1	101.8	231	Propaphos	83.3
7	Acrinathrin	119.1	82	Diallate-1	105.4	157	Fosthiazate-2	111.4	232	Propargite(BPPS)	96.9
8	Alachlor	116.5	83	Diallate-2	112.6	158	Halfenprox	96.0	233	Propazine	108.4
9	Allethrin-1,2	48.1	84	Diazinone	104.1	159	Hexaconazole	103.7	234	Propiconazole-1	105.9
10	Allethrin-3,4	106.5	85	Dichlofenthion	98.7	160	Hexazinone	60.4	235	Propiconazole-2	105.0
11	Ametryn	105.9	86	Dichlofluanid	48.1	161	Imazamethabenz methyl	76.9	236	Propoxur	92.6
12	Anilofos	110.0	87	Dichlorvos	61.1	162	Imibenconazole	105.4	237	Propyzamide	107.1
13	Aramite-3	103.9	88	Diclocymet-1	109.4	163	Imibenconazole-des-benzyl	ND	238	Prothiophos	100.9
14	Aramite-4	100.1	89	Diclocymet-2	109.7	164	Iprobenfos	108.7	239	Pyraclofos	108.4
15	Atrazine	101.4	90	Diclofop-methyl	105.4	165	Iprodione	126.7	240	Pyraflufen-ethyl	105.8
16	Azaconazole	106.2	91	Dicloran	107.2	166	Isazophos	110.1	241	Pyrazophos	111.3
17	Azinphos-Methyl	124.6	92	Dicrotofos	ND	167	Isofenphos	102.1	242	Pyributicarb	96.8
18	Benalaxyl	108.2	93	Diethofencarb	113.0	168	Isofenphos P=O	114.7	243	Pyridaben	101.9
19	Bendiocarb	109.5	94	Difenoconazole-1	105.2	169	Isoprocarb	103.9	244	Pyridafenthion	116.4
20	Benfluranlin	102.4	95	Difenoconazole-2	104.8	170	Isoprothiolane	106.5	245	Pyrifenox-1	103.5
21	Benfuresate	115.8	96	Diflufenican	106.7	171	Isoxathion	101.7	246	Pyrifenox-2	103.4
22	Benoxacor	105.7	97	Dimepiperate	103.9	172	Isoxathion-ox	122.1	247	Pyrimethanil	100.4
23	BHC-alpha	101.3	98	Dimethametryn	108.1	173	Kresoxim-methyl	107.2	248	Pyrimidifen	101.7
24	BHC-beta-gamma	99.9	99	Dimethenamid	107.3	174	Lenacil	68.3	249	Pyriminobac-methyl-1	113.9
25	BHC-delta	104.8	100	Dimethipin	132.3	175	Malathion	112.2	250	Pyriminobac-methyl-2	109.2
26	Bifenox	113.8	101	Dimethoate	36.3	176	Mecarbam	110.3	251	Pyriproxyfen	108.1
27	Bifenthrin	98.1	102	Dimethylvinphos-z	114.9	177	Mefenacet	111.9	252	Pyroquilon	51.0
28	Bitertanol-1	82.8	103	Dioxathion	107.1	178	Mefenpyr-diethyl	109.5	253	Quinoclamine	82.1
29	Bitertanol-2	62.8	104	Diphenamide	108.4	179	Mepronil	112.9	254	Quinolophos	114.0
30	Bromacil	46.4	105	Disulfoton	ND	180	Metalaxyl	99.2	255	Quinomethionate	81.6
31	Brombutide	109.0	106	Disulfoton sulfone	115.0	181	Methamidophos	ND	256	Quinoxifen	96.7
32	Bromofos methyl	105.1	107	Edifenphos	115.2	182	Methidathion	106.5	257	Quintozen	103.0
33	Bromophos-ethyl	99.4	108	Endosulfan	89.6	183	Methiocarb	108.3	258	Resmethrin-1	101.3
34	Bromopropylate	105.2	109	Endosulfan II	91.1	184	Methoprene-1	109.3	259	Resmethrin-2	100.9
35	Bupimate	116.2	110	Endosulfan sulfate	102.0	185	Methoprene-2	97.6	260	Silafluofen	80.4
36	Buprofezin	110.0	111	EPN	105.3	186	Methoxychlor	102.4	261	Simazin	83.1
37	Butachlor	98.3	112	Epoxiconazole	109.4	187	Metolachlor	111.6	262	Simetryn	96.7
38	Butamifos	107.9	113	EPTC	104.6	188	Metominostrobin-e	108.8	263	Spirodiclofen	94.9
39	Butylate	94.2	114	Esprocarb	103.1	189	Metominostrobin-z	105.2	264	Spiroxamine-1	107.3
40	Cadusafos	113.0	115	Ethalfuralin	101.0	190	Mevinphos	30.6	265	Spiroxamine-2	104.7
41	Cafenstrole	118.1	116	Ethiofencarb	67.7	191	Monocrotophos	ND	266	TCMTB	101.7
42	Captafol	88.7	117	Ethion	111.0	192	Myclobutanil	107.3	267	Tebuconazole	104.8
43	Captan	79.3	118	Ethofumesate	109.3	193	Napropamide	110.1	268	Tebufenpyrad	103.7
44	Carbaril	109.7	119	Ethoprophos	110.8	194	Nitrothal-isopropyl	111.5	269	Tecnazene	95.8
45	Carbofuran	98.7	120	Etofenprox	102.4	195	Norflurazon	75.6	270	Tefluthrine	97.3
46	Carboxin	79.8	121	Etoxazole	103.3	196	Oryzalin	St-	271	Terbacil	71.8
47	Carfentrazone ethyl	109.3	122	Etrinfos	107.1	197	Oxadiazone	110.6	272	Terbufos	66.6
48	Chlorbenside	78.2	123	Fenamidone	109.5	198	Oxadixyl	66.3	273	Terbutryn	106.6
49	Chlorbufam	85.5	124	Fenamiphos	91.5	199	Oxyfluorfen	110.0	274	Tetrachlorvinphos	111.5
50	Chlorethoxyphos	103.9	125	Fenarimol	92.7	200	p,p'-DDD	99.4	275	Tetraconazole	108.3
51	Chlorfenapyr	107.7	126	Fenbuconazole	85.2	201	p,p'-DDE	90.5	276	Tetradifon	101.1
52	Chlorfenson	108.0	127	Fenchlorphos	102.5	202	Paclobutrazol	104.8	277	Thenylchlor	109.3
53	Chlorfenvinphos-1	99.3	128	Fenitrothion	106.4	203	Parathion	108.0	278	Thiobencarb	103.2
54	Chlorfenvinphos-2	107.3	129	Fenobucarb	111.0	204	Parathion-methyl	134.1	279	Thiometon	45.8
55	Chlorobenzilate	108.0	130	Fenothiocarb	108.3	205	Penconazole	114.2	280	Tolclofos-methyl	109.6
56	Chloroneb	99.7	131	Fenoxanil	107.7	206	Pendimethalin	102.6	281	Tolfenpyrad	102.3
57	Chlorpropham	109.9	132	Fenpropathrin	110.1	207	Permethrin-cis	97.0	282	Toriadimefon	109.6
58	Chlorpyrifos	106.2	133	Fenpropemorph	105.6	208	Permethrin-trans	100.1	283	Triadimenol-1	99.7
59	Chlorpyrifos-methyl	106.4	134	Fensulfothion	113.0	209	Perthane	103.1	284	Triadimenol-2	91.6
60	Chlorthal-dimethyl	102.9	135	Fenthion	71.6	210	Phenothrin-1	109.9	285	Triallate	97.8
61	Chlozolate	115.9	136	Fenvalerate-1	102.5	211	Phenothrin-2	103.7	286	Triazophos	112.2
62	Cinidon-ethyl	109.9	137	Fenvalerate-2	104.8	212	Phenthoate	102.3	287	Tricyclazole	34.7
63	Clomazone	109.5	138	FIPRONIL	104.3	213	Phorate	72.6	288	Trifloxystrobin	101.1
64	Cyanazine	91.0	139	Fiamprop-methyl	111.4	214	Phosalone	114.4	289	Trifluralin	104.4
65	Cyanophos	108.5	140	Fluacrypyrim	111.1	215	Phosmet	119.0	290	Thifluzamide	34.5
66	Cyfluthrin-1	93.2	141	Flucythrinate-1	107.0	216	Phosphamidon	81.4	291	Uniconazole	106.8
67	Cyfluthrin-2	107.9	142	Flucythrinate-2	110.9	217	Phthalide	104.3	292	Vinclozoline	110.2
68	Cyfluthrin-3	109.1	143	Fludioxonil	117.8	218	Picolinafen	105.2	293	XMC	96.3
69	Cyfluthrin-4	116.5	144	Flufenpyl-ethyl	117.5	219	Piperonyl butoxide	108.4	294	Zoxamide	135.4
70	Cyhalofop-butyl	110.4	145	Flumiclorac-pentyl	112.9	220	Piperophos	111.7			
71	Cyhalothrin-1	112.6	146	Flumioxazin	97.7	221	Pirimicarb	65.0			
72	Cyhalothrin-2	105.7	147	Fluquinconazole	129.6	222	Pirimiphos methyl	107.2			
73	Cypermethrin-1	112.2	148	Fluridone	32.9	223	Pretilachlor	106.6			
74	Cypermethrin-2	114.0	149	Flusilazole	108.5	224	Procymidone	109.5			
75	Cypermethrin-3	105.6	150	Fluthiacet-methyl	120.5	225	Profenofos	108.7			

*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-