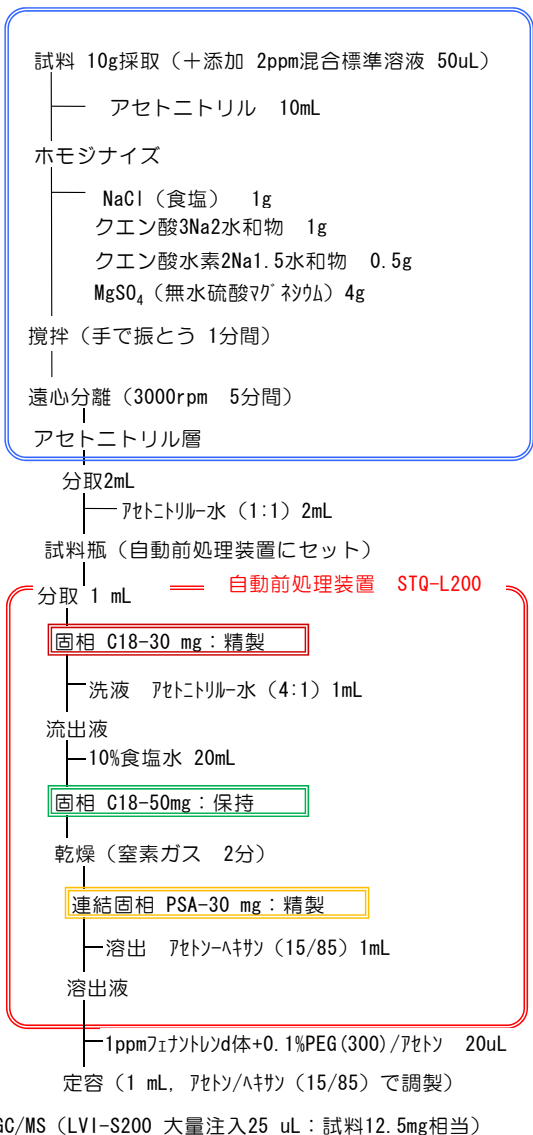


枝豆（冷凍食品、ゆで済） L – G C B 1

前処理フロー

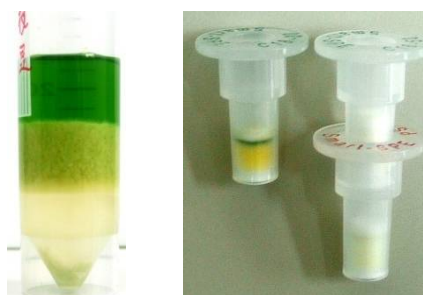


目的/実験方法

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。

未知検体からエトフェンブロックスが検出された。



STQ-L200

For STQ Method

Sample



Information

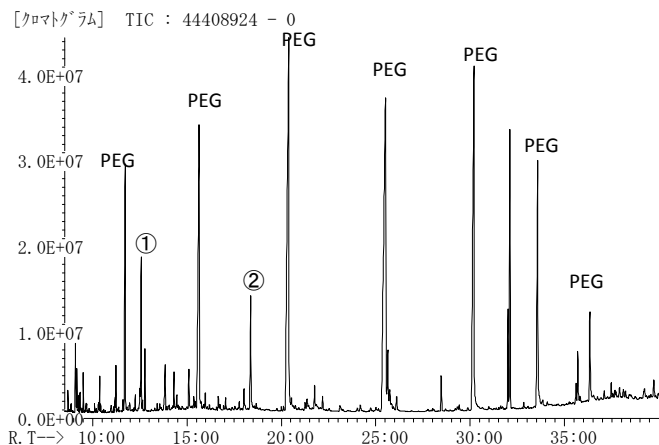
水分：72.1%（ゆで）

脂質：6.1%（ゆで）

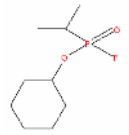
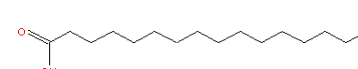
脂肪酸：5.58%（ゆで）

枝豆は、花梗を除去したものをフードプロセッサーで細切。

Scan Chromatogram



【夾雑成分】

- ① Cyclohexyl isopropylphosphonofluoridate
 
- ② Palmitic acid
 

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

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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	80.2	151	Flutolanil	88.1	226	Prohydrojasmon-1	89.5
2	3-Hydroxycarbofuran	67.4	77	Cyproconazole-1	86.7	152	Flutriafol	48.5	227	Prohydrojasmon-2	St-
3	4,4'-Dichlorobenzophenone	82.8	78	Cyproconazole-2	82.0	153	Fluvalinate-1	89.6	228	Prometryn	84.4
4	Acephate	ND	79	DEF(tribufos)	83.3	154	Fluvalinate-2	84.1	229	Propachlor	88.8
5	Acetamipride	ND	80	Deltamethrin	91.9	155	Formothion	85.5	230	Propanil	88.1
6	Acetochlor	86.5	81	Demeton-S-methyl	ND	156	Fosthiazate-1	86.7	231	Propaphos	65.0
7	Acrinathrin	85.6	82	Diallate-1	86.9	157	Fosthiazate-2	90.0	232	Propargite(BPPS)	83.2
8	Alachlor	87.0	83	Diallate-2	91.6	158	Halfenprox	74.3	233	Propazine	90.3
9	Allethrin-1,2	St-	84	Diazinone	81.2	159	Hexaconazole	77.2	234	Propiconazole-1	84.6
10	Allethrin-3,4	79.1	85	Dichlofenthion	83.6	160	Hexazinone	56.3	235	Propiconazole-2	86.8
11	Ametryn	86.2	86	Dichlofluanid	ND	161	Imazamethabenz methyl	50.5	236	Propoxur	81.1
12	Anilofos	94.4	87	Dichlorvos	57.5	162	Imibenconazole	69.0	237	Propyzamide	83.8
13	Aramite-3	91.9	88	Diclocymet-1	80.2	163	Imibenconazole-des-benzyl	ND	238	Prothiophos	80.2
14	Aramite-4	93.2	89	Diclocymet-2	84.2	164	Iprobenfos	91.4	239	Pyraclufos	86.7
15	Atrazine	91.1	90	Diclofop-methyl	88.4	165	Iprodione	90.4	240	Pyraflufen-ethyl	85.8
16	Azaconazole	85.1	91	Dicloran	90.7	166	Isazophos	90.2	241	Pyrazophos	90.9
17	Azinphos-Methyl	100.6	92	Dicrotufos	ND	167	Isafenphos	89.9	242	Pyributicarb	81.6
18	Benalaxyl	89.1	93	Diethofencarb	94.6	168	Isafenphos P=O	95.1	243	Pyridaben	82.9
19	Bendiocarb	95.0	94	Difenoconazole-1	77.4	169	Isoprocarbe	84.3	244	Pyridafenthion	91.4
20	Benfluranlin	89.2	95	Difenoconazole-2	83.0	170	Isoprothiolane	91.1	245	Pyrifenoxy-1	81.7
21	Benfuresate	96.2	96	Diflufenican	84.6	171	Isoxathion	99.8	246	Pyrifenoxy-2	77.6
22	Benoxacor	90.5	97	Dimepiperate	80.6	172	Isoxathion-ox	88.8	247	Pyrimethanil	79.8
23	BHC-alpha	87.2	98	Dimethametryn	86.8	173	Kresoxim-methyl	86.3	248	Pyrimidifen	78.2
24	BHC-beta-gamma	78.8	99	Dimethenamid	90.2	174	Lenacil	61.1	249	Pyriminobac-methyl-1	89.8
25	BHC-delta	80.9	100	Dimethipin	97.8	175	Malathion	88.2	250	Pyriminobac-methyl-2	90.7
26	Bifenox	88.1	101	Dimethoate	ND	176	Mecarbam	83.9	251	Pyriproxyfen	89.0
27	Bifenthrin	80.0	102	Dimethylvinphos-z	91.9	177	Mefenacet	87.1	252	Pyroquilon	51.7
28	Bitertanol-1	64.4	103	Dioxathion	95.8	178	Mefenpyr-diethyl	88.6	253	Quinoclamine	66.3
29	Bitertanol-2	56.0	104	Diphenamide	90.4	179	Mepronil	91.6	254	Quinolphos	86.0
30	Bromacil	51.5	105	Disulfoton	ND	180	Metalaxyl	82.3	255	Quinomethionate	64.5
31	Bromobutide	90.0	106	Disulfoton sulfone	92.8	181	Methamidophos	ND	256	Quinoxyfen	72.9
32	Bromofos methyl	84.5	107	Edifenphos	84.9	182	Methidathion	90.1	257	Quintozen	77.1
33	Bromophos-ethyl	80.9	108	Endosulfan	75.4	183	Methiocarb	101.8	258	Resmethrin-1	38.3
34	Bromopropylate	86.4	109	Endosulfan II	85.9	184	Methoprene-1	94.3	259	Resmethrin-2	34.8
35	Bupimate	91.1	110	Endosulfan sulfate	72.8	185	Methoprene-2	75.1	260	Silafluofen	58.0
36	Buprofezin	87.5	111	EPN	82.9	186	Methoxychlor	84.4	261	Simazin	72.9
37	Butachlor	85.6	112	Epoxiconazole	86.5	187	Metolachlor	91.1	262	Simetryn	79.2
38	Butamifos	86.9	113	EPTC	77.1	188	Metaminostrobin-e	89.9	263	Spirodiclofen	74.5
39	Butylate	79.4	114	Esprocarb	87.2	189	Metaminostrobin-z	81.8	264	Spiroxamine-1	47.2
40	Cadusafos	92.3	115	Ethalfuralin	86.5	190	Mevinphos	ND	265	Spiroxamine-2	40.1
41	Cafenstrole	86.6	116	Ethiofencarb	ND	191	Monocrotophos	ND	266	TCMTB	St-
42	Captafol	St-	117	Ethion	94.3	192	Myclobutanil	82.1	267	Tebuconazole	79.9
43	Captan	ND	118	Ethofumesate	97.5	193	Napropamide	94.6	268	Tebufenpyrad	87.0
44	Carbaril	96.8	119	Ethoprophos	92.9	194	Nitrothal-isopropyl	85.7	269	Tecnazene	80.4
45	Carbofuran	87.7	120	Etofenprox	80.1	195	Norflurazon	63.5	270	Tefluthrine	86.7
46	Carboxin	ND	121	Etoxazole	86.5	196	Oryzalin	St-	271	Terbacil	68.0
47	Carfentrazone ethyl	93.6	122	Etrinfos	86.7	197	Oxadiazone	92.0	272	Terbufos	69.5
48	Chlorbenside	65.1	123	Fenamidone	82.5	198	Oxadixyl	61.9	273	Terbutryn	86.5
49	Chlorbufam	89.3	124	Fenamiphos	66.1	199	Oxyfluorfene	87.8	274	Tetrachlorvinphos	88.5
50	Chlorethoxyphos	89.4	125	Fenarimol	67.9	200	p,p'-DDD	82.6	275	Tetraconazole	87.6
51	Chlorfenapyr	85.9	126	Fenbuconazole	65.5	201	p,p'-DDE	69.3	276	Tetraodon	82.7
52	Chlorfenson	85.9	127	Fenchlorphos	84.0	202	Pacllobutrazol	85.8	277	Thenylchlor	89.0
53	Chlorfenvinphos-1	92.5	128	Fenitrothion	93.1	203	Parathion	89.3	278	Thiobencarb	88.9
54	Chlorfenvinphos-2	84.9	129	Fenobucarb	93.9	204	Parathion-methyl	90.6	279	Thiometon	ND
55	Chlorobenzilate	88.6	130	Fenothiocarb	91.0	205	Penconazole	86.2	280	Tolclofos-methyl	87.8
56	Chloroneb	80.6	131	Fenoxanil	90.7	206	Pendimethalin	81.9	281	Tolfenpyrad	87.7
57	Chlorpropham	88.4	132	Fenpropathrin	91.6	207	Permethrin-cis	78.3	282	Toridimefon	89.7
58	Chlorpyrifos	88.4	133	Fenpropemorph	87.5	208	Permethrin-trans	83.4	283	Triadimenol-1	78.9
59	Chlorpyrifos-methyl	87.2	134	Fensulfthion	92.3	209	Perthane	83.5	284	Triadimenol-2	77.9
60	Chlorthal-dimethyl	86.1	135	Fenthion	62.5	210	Phenothrin-1	87.4	285	Triallate	81.9
61	Chlozolate	102.9	136	Fenvalerate-1	83.3	211	Phenothrin-2	86.0	286	Triazophos	88.9
62	Cinidon-ethyl	84.3	137	Fenvalerate-2	84.0	212	Pherithoate	84.5	287	Tricyclazole	ND
63	Clomazone	92.3	138	FIPRONIL	79.2	213	Phorate	61.5	288	Trifloxystrobin	97.0
64	Cyanazine	76.9	139	Flamprop-methyl	89.1	214	Phosalone	92.7	289	Trifluralin	86.3
65	Cyanophos	90.0	140	Fluacrypyrim	96.0	215	Phosmet	100.3	290	Thifluzamide	39.3
66	Cyfluthrin-1	51.7	141	Flucythrinate-1	90.9	216	Phosphamidon	70.7	291	Uniconazole	79.2
67	Cyfluthrin-2	85.9	142	Flucythrinate-2	94.3	217	Phthalide	86.3	292	Vinclozoline	90.8
68	Cyfluthrin-3	91.1	143	Fludioxonil	37.1	218	Picolinafen	86.8	293	XMC	89.4
69	Cyfluthrin-4	86.0	144	Flufenpyl-ethyl	94.5	219	Piperonyl butoxide	88.5	294	Zoxamide	80.9
70	Cyhalofop-butyl	93.9	145	Flumiclorac-pentyl	89.7	220	Piperophos	93.1			
71	Cyhalothrin-1	96.2	146	Flumioxazin	71.6	221	Pirimicarb	54.0			
72	Cyhalothrin-2	88.3	147	Fluquinconazole	84.2	222	Pirimiphos methyl	92.8			
73	Cypermethrin-1	92.9	148	Fluridone	38.3	223	Pretilachlor	91.0			
74	Cypermethrin-2	86.9	149	Flusilazole	85.2	224	Procymidone	89.8			
75	Cypermethrin-3	69.4	150	Fluthiacet-methyl	69.8	225	Profenofos	92.1			

*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-