

**Wako products
for the Positive List System
in Japan**

Wako

Wako Pure Chemical Industries, Ltd.

Introduction of the positive list system

On May 29, 2006 the Ministry of Health, Labour and Welfare (MHLW) introduced the positive list system for agricultural chemicals remaining in foods to prohibit the distribution of foods that contain agricultural chemicals above a certain level if maximum residue limits (MRLs) have not been established. The agricultural chemicals include pesticides, feed additives and veterinary drugs.

Before the enforcement of the positive list system, the number of the chemicals for which MRLs were established was 283. Basically, even foods found to contain chemicals for which MRLs were not established were not enjoined from distribution.

In the positive list system, about 800 agricultural chemicals' provisional MRLs are established. If chemicals for which MRLs are not established, foods found to contain chemicals above the uniform limits, 0.01ppm, are enjoined from domestic distribution.

In this way all the agricultural chemicals are regulated by some kind of residue limits in the positive list system.

For details : <http://www.mhlw.go.jp/english/topics/foodsafety/positivelist060228/introduction.html>

Contents

1. Mixture standard solution for the positive list system's multiresidue methods

Mixture Standard Solution for Positive List System's Multiresidue Methods	1
---	---

2. The list of Wako's reference materials for the positive list system

-List of Pesticides and Veterinary drugs for which MRLs are currently established and no Provisional MRLs are proposed	17
-List of Chemicals for which the Provisional MRLs will be set	18
-List of Agricultural Chemicals shall not be detected in any food	29

3. Other related products

Solid-phase extraction and products for LC/MS method	31
--	----

1. Mixture standard solution for the positive list system's multiresidue methods



www.bopro.com

宝柏·中国

Mixture Standard Solution for Positive List System's Multiresidue Methods

Catalog No.	Description	Pkg. Size	Number of Components	Brevity Code
161-22961 167-22963	Pesticide Mixture Standard Solution PL-1-1 (20 µg/mL each Acetone Solution)	1ml×5A 1ml	32	P · PL-1
168-22971 164-22973	Pesticide Mixture Standard Solution PL-2-1 (20 µg/mL each Acetone Solution)	1ml×5A 1ml	31	P · PL-2
165-22981 161-22983	Pesticide Mixture Standard Solution PL-3-1 (20 µg/mL each Acetone Solution)	1ml×5A 1ml	29	P · PL-3
162-22991 168-22993	Pesticide Mixture Standard Solution PL-4-1 (20 µg/mL each Acetone Solution)	1ml×5A 1ml	37	P · PL-4
169-23001 165-23003	Pesticide Mixture Standard Solution PL-5-1 (20 µg/mL each Acetone Solution)	1ml×5A 1ml	37	P · PL-5
166-23011 162-23013	Pesticide Mixture Standard Solution PL-6-1 (20 µg/mL each Acetone Solution)	1ml×5A 1ml	37	P · PL-6
163-23021 169-23023	Pesticide Mixture Standard Solution PL-7-2 (20 µg/mL each Acetonitrile Solution)	1ml×5A 1ml	29	P · PL-7
160-23031 166-23033	Pesticide Mixture Standard Solution PL-8-1 (20 µg/mL each Acetonitrile Solution)	1ml×5A 1ml	21	P · PL-8
167-23041 163-23043	Pesticide Mixture Standard Solution PL-9-1 (20 µg/mL each Acetone Solution)	1ml×5A 1ml	18	P · PL-9
164-23051 160-23053	Pesticide Mixture Standard Solution PL-10-1 (20 µg/mL each Acetone Solution)	1ml×5A 1ml	9	P · PL-10
220-01681 226-01683	Veterinary Drug Mixture Standard Solution PL-1-2 (20 µg/mL each Methanol Solution)	1ml×5A 1ml	22	V · PL-1
227-01691 223-01693	Veterinary Drug Mixture Standard Solution PL-2-1 (20 µg/mL each Methanol Solution)	1ml×5A 1ml	24	V · PL-2

The compositions of these products are based on Multiresidue Methods notified by MHLW on November 29, 2005

Reference URL of multiresidue method : <http://www.mhlw.go.jp/english/topics/foodsafety/positivelist060228/dl/060526-1a.pdf>

Examples of products combinations for Multiresidue Methods

Examples of products combinations for Multiresidue Methods	Corresponding Products (Brevity Code)
Multiresidue Method for Agricultural Chemicals by GC/MS (Agricultural Products)	P · PL-1, P · PL-2, P · PL-3, P · PL-4, P · PL-5, P · PL-6
Multiresidue Method I for Agricultural Chemicals by LC/MS (Agricultural Products)	P · PL-7
Multiresidue Method II for Agricultural Chemicals by LC/MS (Agricultural Products)	P · PL-8
Multiresidue Method for Agricultural Chemicals by GC/MS (Animal and Fishery Products) [muscle, fat, liver, kidney and fishery products]	P · PL-1, P · PL-2, P · PL-3, P · PL-9
Multiresidue Method for Agricultural Chemicals by GC/MS (Animal and Fishery Products) [milk, egg and honey]	P · PL-1, P · PL-2, P · PL-3, P · PL-9, P · PL-10
Multiresidue Method I for Veterinary Drugs, Etc. by HPLC (Animal and Fishery Products)	V · PL-1, V · PL-2
Multiresidue Method II for Veterinary Drugs, Etc. by HPLC (Animal and Fishery Products)	V · PL-2

Analysis Examples of Pesticide Mixture Standard Solution PL-1 ~ PL-6 and PL-9 ~ PL-10

● Analytical conditions ●

[System]

Shimadzu QP-2010

[GC]

Column : Rtx-5MS

Length/30m, Inner diameter/0.32mm, Liquid phase film thickness/0.25 μ m

Column temperature :

● P·PL-1 ~ P·PL-6, P·PL-9

80°C (1min.) \rightarrow 20°C/min. \rightarrow 180°C \rightarrow 5°C/min. \rightarrow 300°C (10min.)

● P·PL-10

50°C (1min.) \rightarrow 20°C/min. \rightarrow 180°C \rightarrow 5°C/min. \rightarrow 300°C (10 min.)

Injection : 260°C Splitless injection

Linear velocity : 55cm/sec.

[MS]

Ionization mode : EI

Interface : 280°C

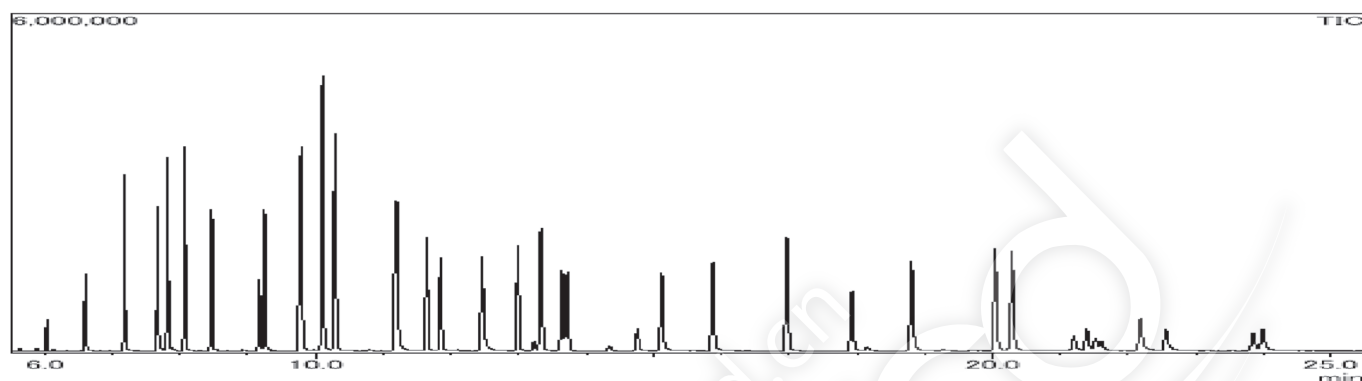
Ion source : 230°C

Injection volume : 1 μ L

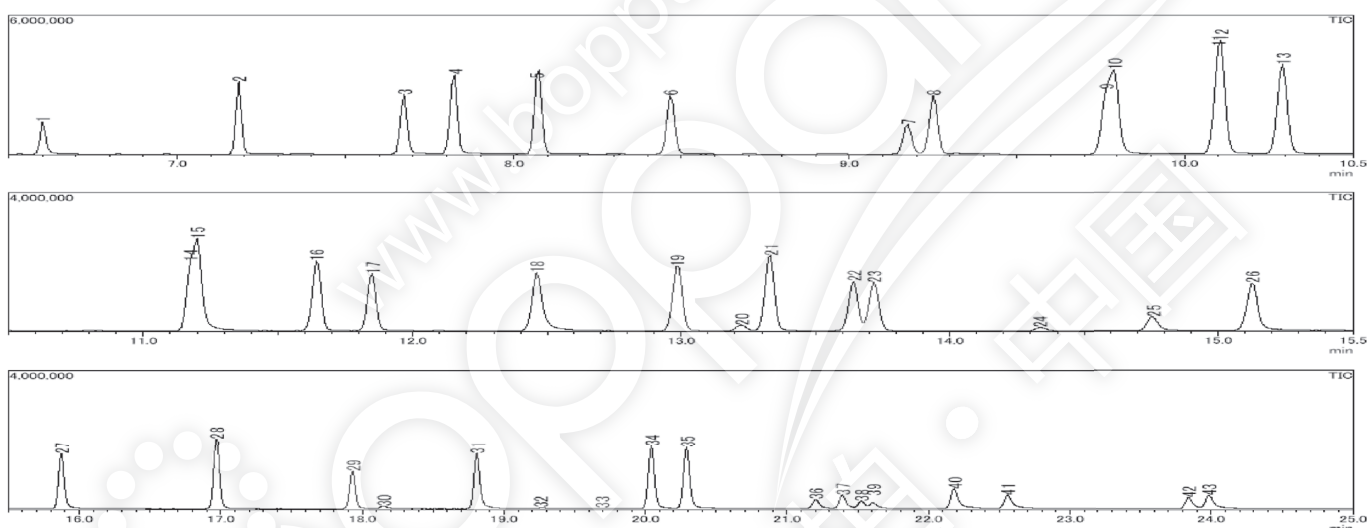
Pesticide Mixture Standard Solution PL-1-1

Wako Cat. # (161-22961:1mlX5 167-22963:1ml)

GC/MS Chromatogram



Scale-up Chromatogram



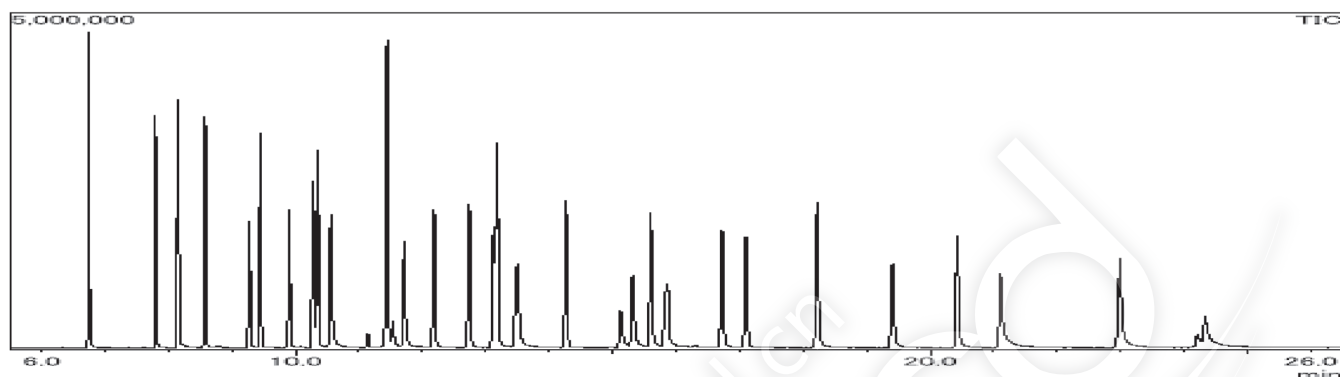
32 compounds, 20 µg/ml each in Acetone

Peak No.	Component Name	Monitoring Ions (m/z)			Peak No.	Component Name	Monitoring Ions (m/z)		
1	Omethoate	156	110	141	18	Fenamiphos	303	217	
2	Trifluralin	306	264		19	Oxadiazon	175	302	344
3	Dimethoate	87	125		21	Kresoxim-methyl	116	206	
4	Atrazine	200	215		22	Chlorfenapyr	364	328	
5	Terbufos	231	288	153	23	β -Endosulfan (β -Benzoepin)	195	241	
6	Tefluthrin	177	197	383	25,33	Pyrethrin I, II	123	133	162
7,9	Spiroxamin	100	126				107	133	160
		100	101	126	26	Norflurazon	145	303	173
8	Chlorpyrifosmethyl	288	288		27	Diffluencan	266	394	
10	Terbutryn (Prebane)	226	241		28	Bifenthrin	181	166	
11	Benthiocarb	100	257		29	Azinphos-methyl	160	132	
12	Malathion (Malathon)	173	158		31	Fenarimol (Bloc)	139	330	251
13	Fenpropimorph	128	129	303	34	trans-Permethrin	183	163	
14	Pendimethalin	252	281		35	cis-Permethrin	183	163	
15	Penconazole	159	248		36-39	Cyfluthrin	163	226	206
16	Procymidone	283	285		40,41	Flucythrinate	199	451	
17	Methidathion (DMTP)	145	85	302	42,43	Fluvalinate	250	252	

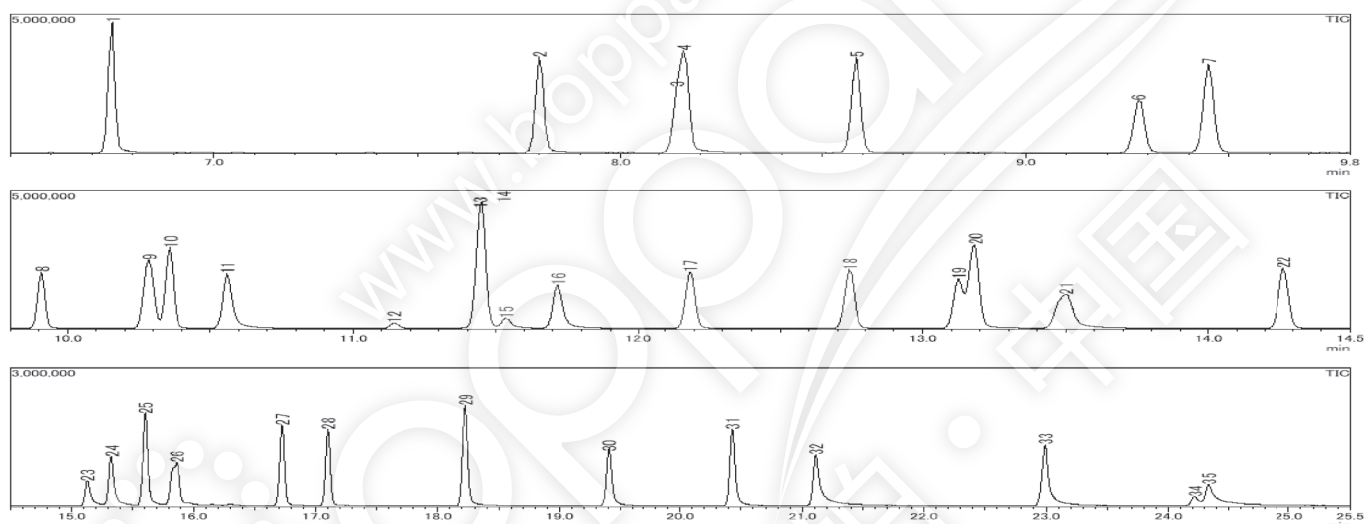
Pesticide Mixture Standard Solution PL-2-1

Wako Cat. # (168-22971:1mlX5 164-22973:1ml)

GC/MS Chromatogram



Scale-up Chromatogram



31 compounds, 20 μ g/ml each in Acetone

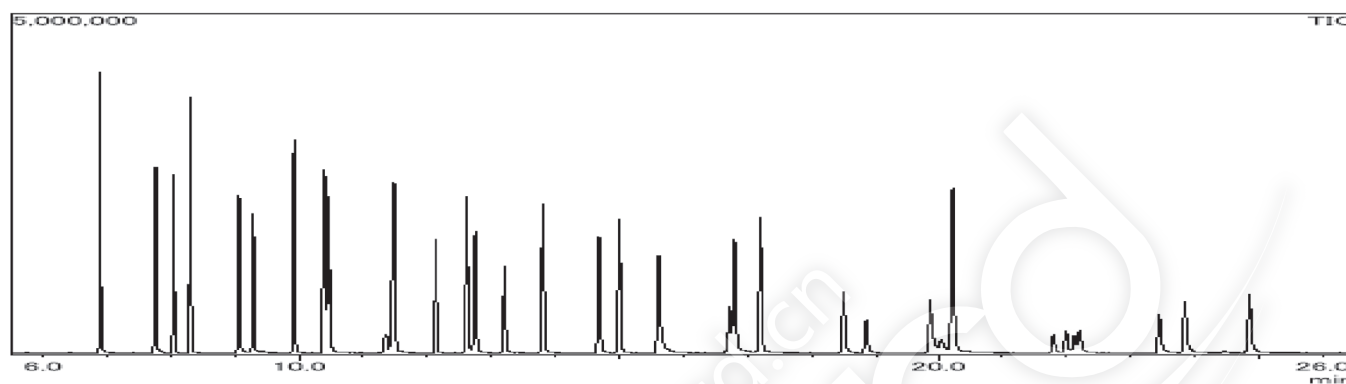
Peak No.	Component Name	Monitoring Ions (m/z)			Peak No.	Component Name	Monitoring Ions (m/z)		
1	Propoxur (PHC)	110	152		18	Isoprothiolane	118	290	
2	Carbofuran	164	149		19	Myclobutanil	179	150	
3	Quintozene (PCNB)	237	295		20	Buprofezin	105	172	
4	Propyzamide	173	255		21	Cyproconazole	222	139	
5	Triallate	268	128		22	Ethion	231	384	
6	Vinclozolin	285	212		23,24	Propiconazole	173	259	
7	Alachlor	160	188		25	Hexazinone	171	252	128
8	Fenitrothion (MEP)	277	260		26	Propargite (BPPS)	173	150	
9	Metolachlor	162	238		27	Phosmet (PMP)	160	161	133
10	Fenthion (MPP)	278	169		28	Methoxychlor	227	274	228
11	Isofenphos Oxon	229	314		29	Pyriproxyfen	136	226	
12,14	Chlorfenvinphos (E-,Z-) (α -CVP, β -CVP)	267	323		30	Pyraclofos	360	194	
		267	323		31	Fluquinconazole	340	108	
13	Isofenphos	213	255		32	Fenbuconazole	129	198	
15,16	Triadimenol	112	168		33	Fluridone	328	329	
17	Tetrachlorvinphos (CVMP)	329	331		34,35	Difenoconazole	323	265	

Pesticide Mixture Standard Solution PL-3-1

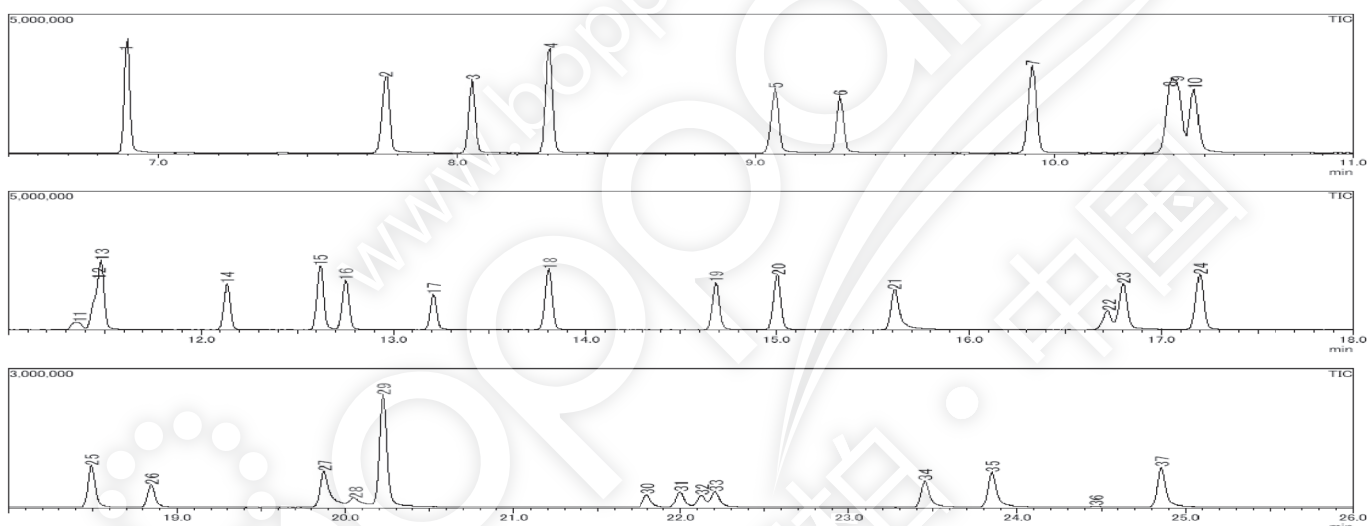
Wako Cat. #

(165-22981:1ml×5 161-22983:1ml)

GC/MS Chromatogram



Scale-up Chromatogram



29 compounds, 20 μ g/ml each in Acetone

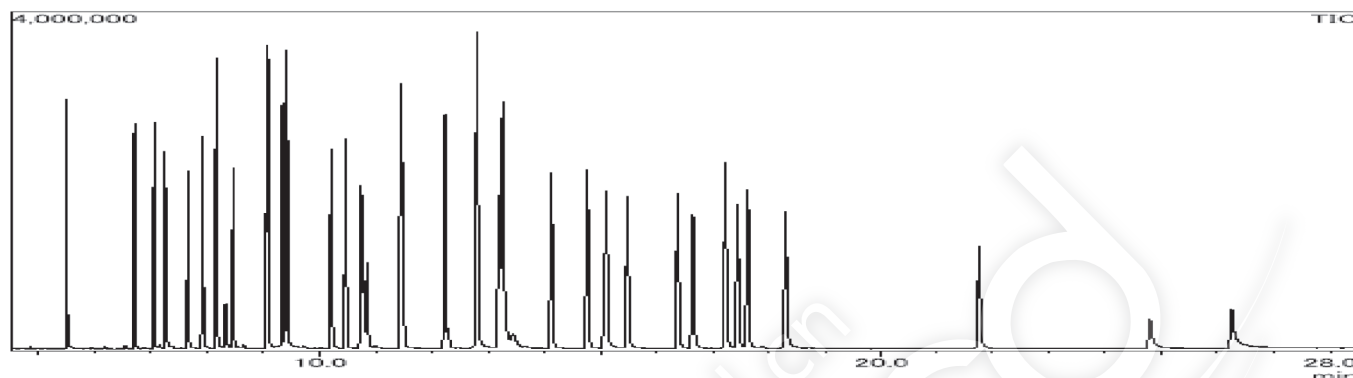
Peak No.	Component Name	Monitoring Ions (m/z)			Peak No.	Component Name	Monitoring Ions (m/z)		
1	Ethoprophos (Ethoprop)	158	200	139	17	Oxyfluorfen	252	361	300
2	Simazine (CAT)	201	173		18	Chlorobenzilate	139	251	
3	γ -BHC (Lindane)	181	219		19	Triazophos	161	257	
4	Diazinon	137	152	304	20	Quinoxifen	237	272	307
5	Propanil (DCPA)	161	217		21	Tebuconazole	125	250	
6	Methylparathion	125	233	263	22	Acetamiprid	166	221	
7	Pirimiphos-methyl	290	276	305	23	Phenisebromolate	341	183	
8	Chlorpyrifos	197	286	314	24	Fenpropathrin	181	265	349
9	Parathion	291	235		25,26	Cyhalothrin	181	197	208
10	Triadimefon	208	181		27,28	Bitertanol	170	168	
11,12	Allethrin (Bioallethrin)	123	136				170	168	112
13	Fipronil	367	369	351	29	Pyridaben	147	309	
14	α -Endosulfan (α -Benzoepin)	195	241		30-33	Cypermethrin	163	181	165
15	Flutolanil	173	323		34,35	Fenvalerate	125	419	225
16	Profenofos	139	337	374	36,37	Deltamethrin	181	253	

Pesticide Mixture Standard Solution PL-4-1

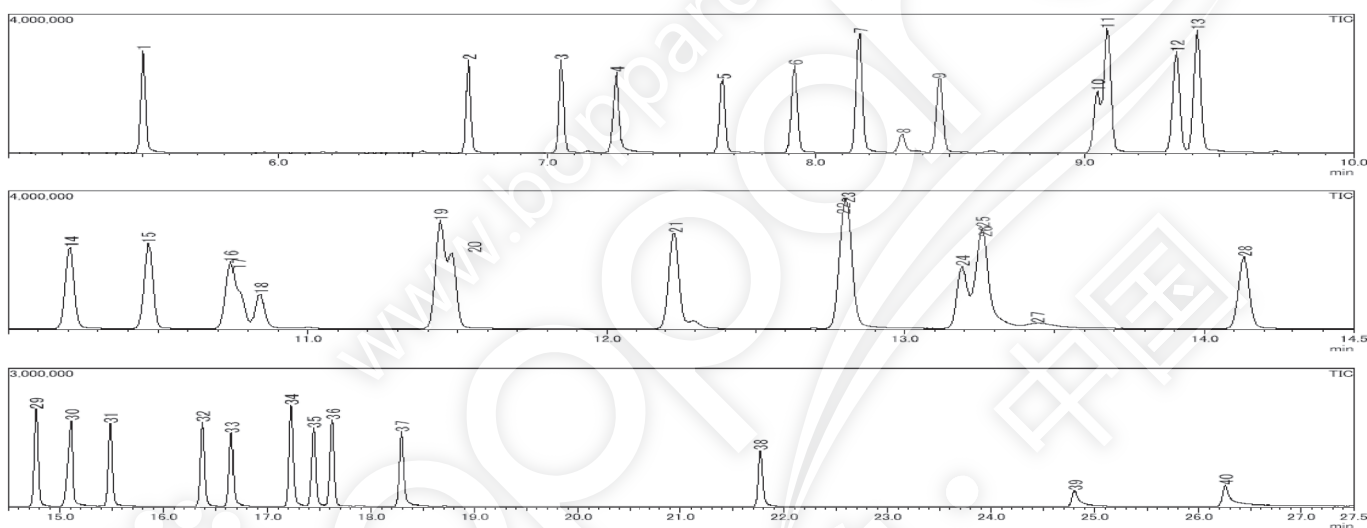
Wako Cat. #

(162-22991:1ml×5 168-22993:1ml)

GC/MS Chromatogram



Scale-up Chromatogram



37 compounds, 20 μ g/ml each in Acetone

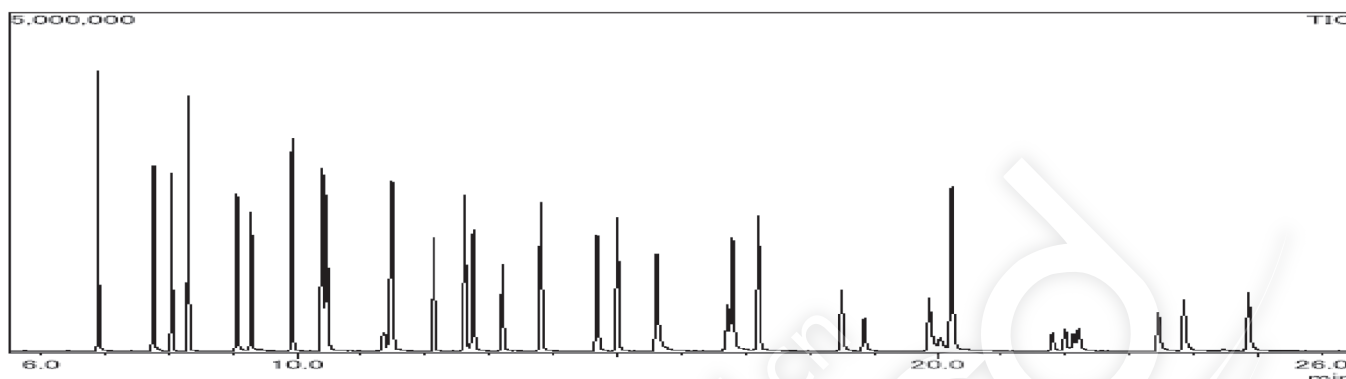
Peak No.	Component Name	Monitoring Ions (m/z)			Peak No.	Component Name	Monitoring Ions (m/z)		
1	Mevinphos	127	109	192	22	Uniconazole P	234	236	
2	Tecnazene	203	215	261	23	Pretilachlor	162	238	262
3	Ethalfuralin	276	316		24	Azakonazole	217	173	219
4	Monocrotophos	127	192		25	Bupirimate	273	208	316
5	Dicloran (CNA)	206	208	176	26,27	Imazamethabenz Methyl Ester	144	245	256
6	β -BHC	181	183	219	28	(Z)-Pyriminobac-methyl	302	256	303
7	Pyroquilon	173	130	172	29	Fluacrypyrim	145	320	189
8,10	Phosphamidon	264	193		30	Lenacil	153	154	110
9	δ -BHC	181	183	219	31	(E)-Pyriminobac-methyl	302	256	303
11	Dimethenamid	154	230	203	32	Mefenpyr - diethyl	253	255	299
12	Tolclofos-methyl	265	267	125	33	Pyridaphenthion	340	199	188
13	Ametryn	227	212		34	Etoazole	141	359	300
14	Diethofencarb	225	267		35	Anilofos	125	334	184
15	Chlorthal-dimethyl (Dacthal)	301	299	332	36	Tetradifon	159	229	356
16	Fthalide	243	241	272	37	Mefenacet	192	120	
17,18	Fosthiazate	139	166	283	38	Halfenprox	263	265	183
19	Dimepiperate	119	145		39	Tralomethrin	181	253	
20	Phenthoate (PAP)	274	246		40	Imibenconazole	253	375	
21	Butachlor	176	237						

Pesticide Mixture Standard Solution PL-5-1

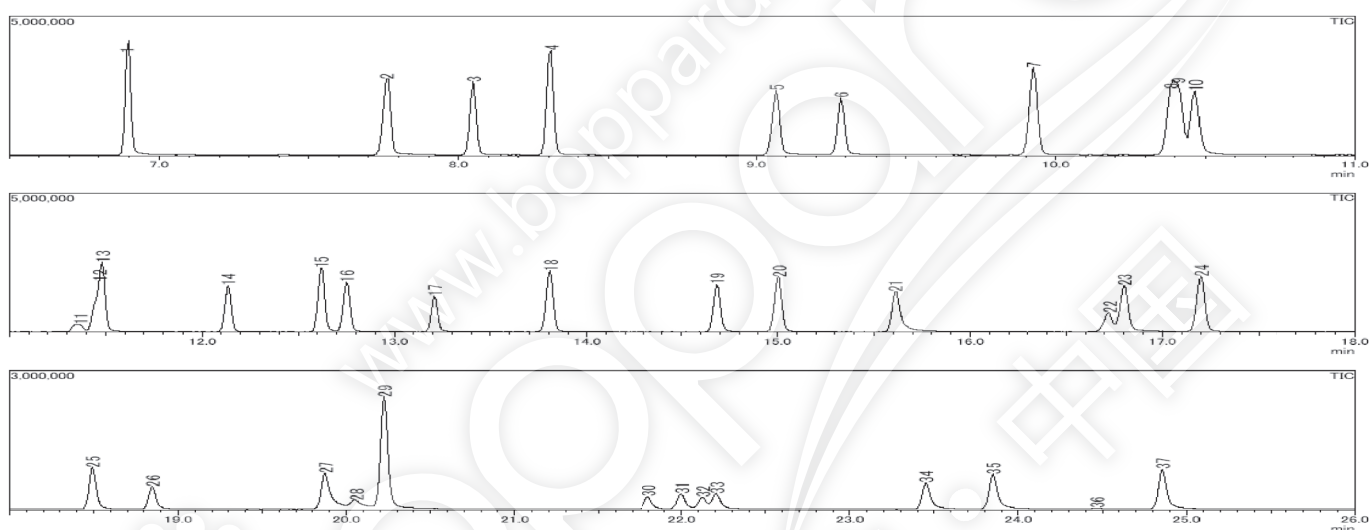
Wako Cat. #

(169-23001:1mlX5 165-23003:1ml)

GC/MS Chromatogram



Scale-up Chromatogram



37 compounds, 20 µg/ml each in Acetone

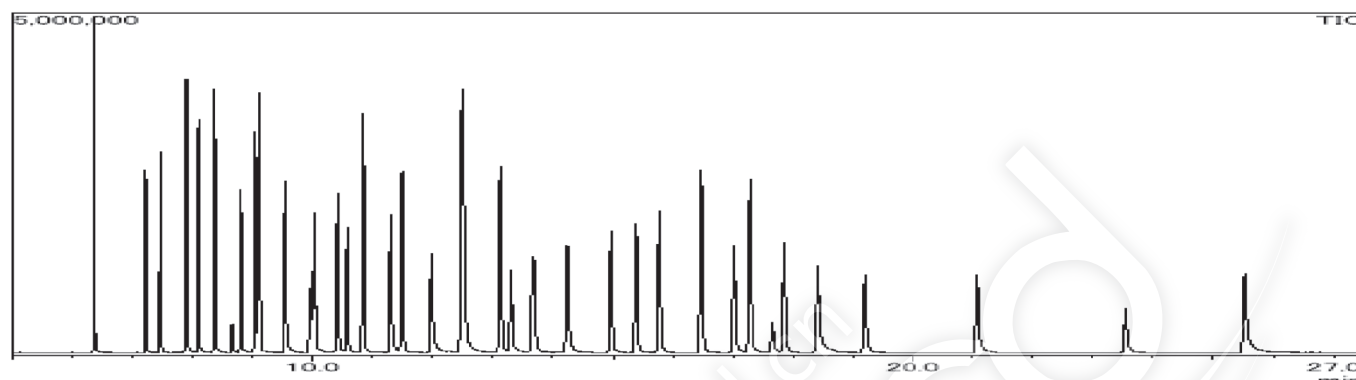
Peak No.	Component Name	Monitoring Ions (m/z)			Peak No.	Component Name	Monitoring Ions (m/z)		
1	Isoprocarb (MIPC)	121	136		22	Prothiofos	309	267	
2	Propachlor	120	176		23	Tricyclazole	189	118	
3	Chloroprotham (Chloro IPC)	127	171	213	24	Tribfos (DEF)	169	202	
4	Cadusafos	159	158	114	25	Imibenconazole-debenzyl	235	270	128
5	Pyrimethanil	198	199		26	Isoxathion	177	313	
6	Terbacil	161	160	117	27	Fensulfotion	293	308	
7	Iprobenfos (IBP)	204	246		28	Mepronil	119	269	133
8	Benfuresate	163	121	256	29	Benalaxyl	148	206	228
9	Acetochlor	146	162	223	30	Pyraflufen-ethyl	412	414	349
10	Simetryn	213	155	170	31	Thenylchlor	127	288	141
11	Prometryn	241	184	226	32,18*	Zoxamide	187	189	258
12	Esprocarb	222	162				187	242	
13	(Z)-Dimethylvinphos	295	297		33	EPN	157	169	185
14	Tetraconazole	336	338		34	Bifenox	341	343	310
15	Bromophos	331	329		35	Phosalone	182	121	367
16	Dimethametryn	212	255	71	36,37	Acrinathrin	181	289	208
17,19	Diclocymet	277	221		38	Ethofenprox	163	135	
20	(E)-Pyrifenoxy	262	294	264	39	Flumiclorac - pentyl	423	353	308
21	Fenothiocarb	72	160		40	Fluthiacet-methyl	403	405	

Pesticide Mixture Standard Solution PL-6-1

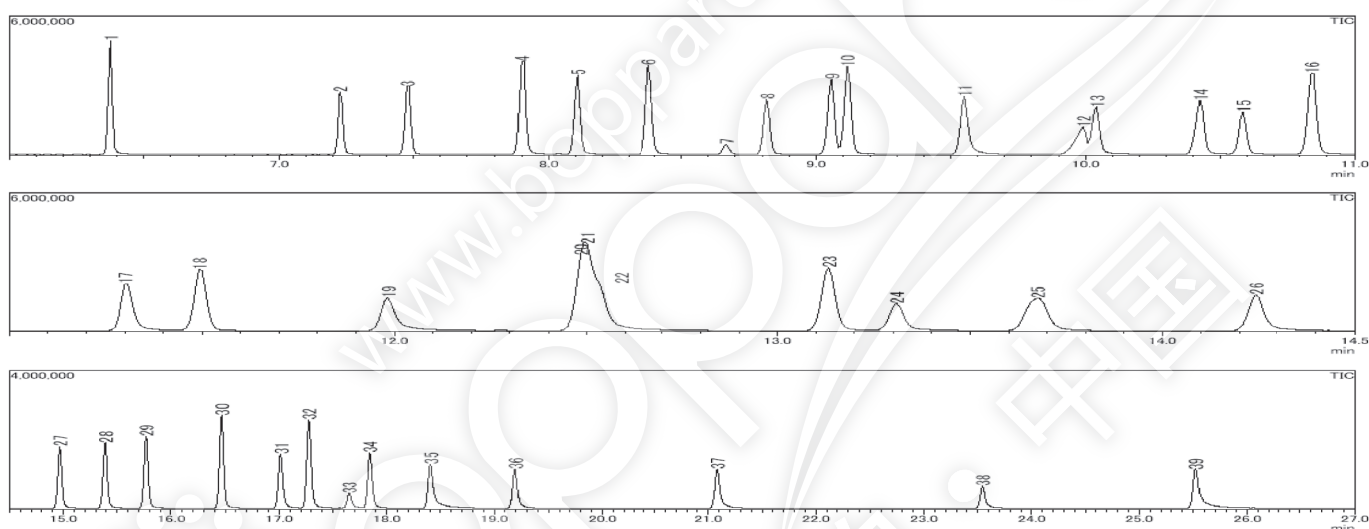
Wako Cat. #

(166-23011:1mlX5 162-23013:1ml)

GC/MS Chromatogram



Scale-up Chromatogram



37 compounds, 20 µg/ml each in Acetone

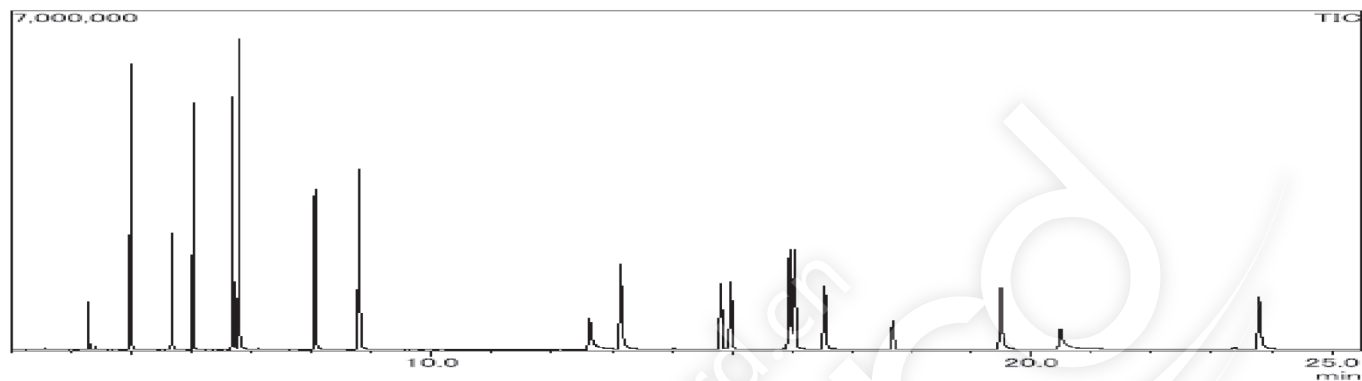
Peak No.	Component Name	Monitoring Ions (m/z)			Peak No.	Component Name	Monitoring Ions (m/z)		
1	XMC	122	107		21	Butamifos	286	200	
2	Benfluralin (Bethrodine)	292	264	276	22	Hexaconazole	214	216	231
3	α-BHC	181	221	219	23	Flamprop - methyl	105	276	
4	Propazine	214	229	172	24	Thifluzamide	194	166	449
5	Cyanophos (CYAP)	109	243	125	25	Fenoxanil	189	293	328
6,7	Prohydrojasmon	153	184		26	Oxadixyl	163	132	233
8	Benoxacor	120	259	176	27	Edifenphos (EDDP)	173	201	310
9	Dichlofenthion (ECP)	279	223	162	28	Trifloxystrobin	116	131	222
10	Bromobutide	119	232		29	Diclofop - methyl	340	253	281
11	Mefenoxam	206	249	234	30	Pyributicarb	165	108	181
12	Bromacil	205	190		31	Piperophos	122	140	
13	Quinoclamine (ACN)	172	209		32	Tebufenpyrad	318	276	333
14	Cyanazine	225	240	198	33,34	Phenothrin (Sumithrin)	123	183	
15	Nitrothal - isopropyl	236	194	254	35	Cyhalofop-butyl	256	357	229
16	Diphenamid	167	239	165	36	Pyrazophos	221	232	373
17	(Z)-Pyrifenox	262	294	264	37	Cafenstrole	100	188	
18	Quinalphos	146	157	298	38	Flumioxazin	354	287	355
19	Paclobutrazol	236	238	138	39	Tolfenpyrad	383	385	
20	Napropamide	128	100						

Pesticide Mixture Standard Solution PL-9-1

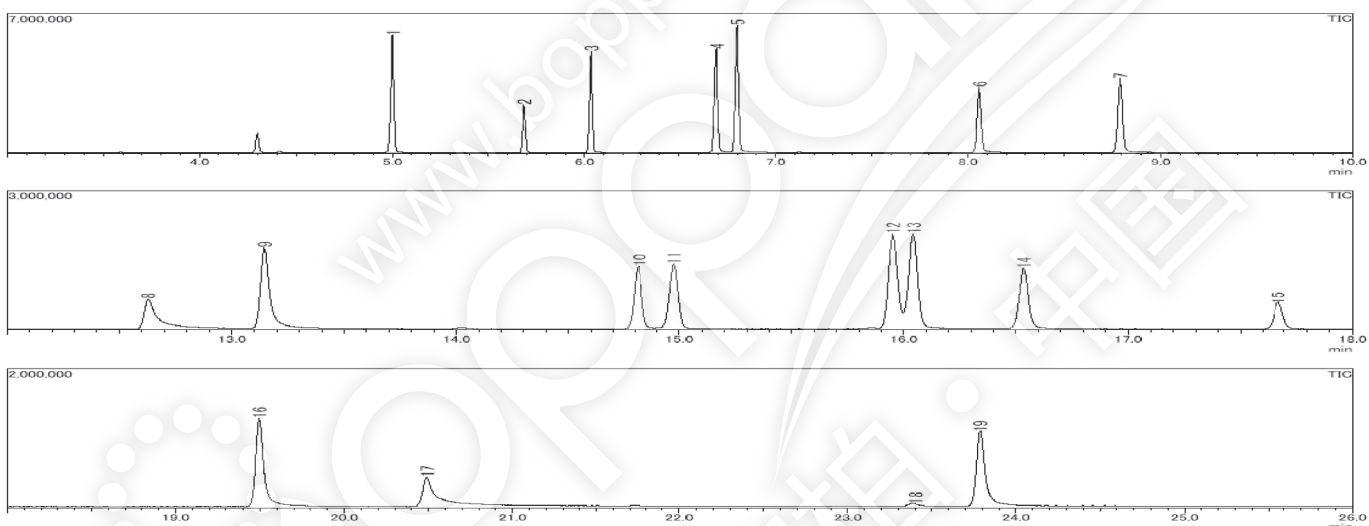
Wako Cat. #

(167-23041:1ml×5 163-23043:1ml)

GC/MS Chromatogram



Scale-up Chromatogram



18 compounds, 20 μ g/ml each in Acetone

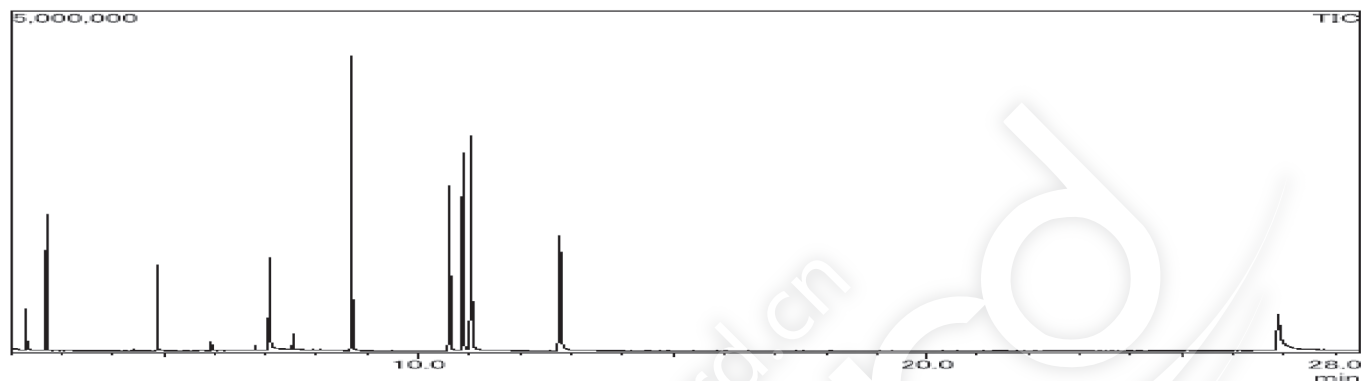
Peak No.	Component Name	Monitoring Ions (m/z)			Peak No.	Component Name	Monitoring Ions (m/z)		
1	EPTC	128	132	189	10	Famphur	218	217	125
2	Etridiazole (Echlomezol)	211	183	246	11	Endosulfan Sulfate (Benzoepin Sulfate)	272	387	422
3	Chloroneb	191	193	206	12	Piperonyl Butoxide	176	177	
4	Fenobucarb (BPMC)	121	150		13	Bioresmethrin	123	171	143
5	Diphenylamine	169	168	167	14	Iprodione	314	316	
6	Propetamphos	138	236	194	15	Iprodione Metabolite	329	331	
7	Pirimicarb	166	238		16	Fenoxaprop-ethyl	288	361	261
8	Imazalil	215	217	173	17	Prochloraz	180	308	266
9	Flusilazole	233	206	315	18,19	Esfenvalerate (Fenvalerate)	225	419	

Pesticide Mixture Standard Solution PL-10-1

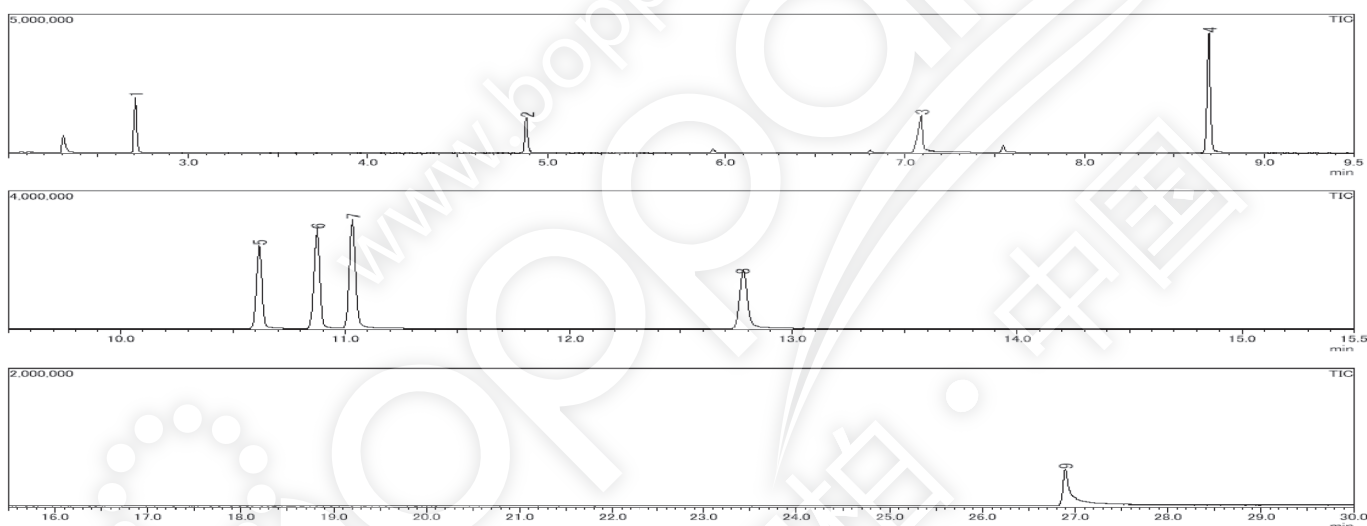
Wako Cat. #

(164-23051:1ml×5 160-23053:1ml)

GC/MS Chromatogram



Scale-up Chromatogram



9

compounds, 20 μ g/ml each in Acetone

Peak No.	Component Name	Monitoring Ions (m/z)			Peak No.	Component Name	Monitoring Ions (m/z)		
1	Aldicarb (deg.)	68	115	100	6	Carbaryl (NAC)	144	115	116
2	Aldoxycarb (Aldicarb sulfone) (deg.)	68	80		7	Metalaxyl	206	249	
3	Acephate	136	94		8	Thiabendazole	201	174	
4	Bendiocarb	151	166	223	9	Azoxystrobin	344	388	
5	Metribuzin	198	144						

Analysis Examples of Pesticide Mixture Standard Solution PL-7、 PL-8

for Multiresidue Method by LC/MS

and

Veterinary Drug Mixture Standard Solution PL-1、 PL-2

for Multiresidue Method for Veterinary Drugs, Etc. by HPLC

● Analytical conditions ● (P · PL-7、 P · PL-8)

[HPLC]

Column : Wakopak® Wakosil-II 3C18 HG 2.0x150mm

Eluent : A) 5mM CH₃COONH₄ in H₂O

B) 5mM CH₃COONH₄ in CH₃OH

Gradient :

Time	B conc.
0-1min.	15-40%
1-3.5min.	40%
3.5-6min.	40-50%
6-8min.	50-55%
8-17.5min.	55-95%
17.5-30min.	95%
30-40min.	15%

Flow rate : 0.2ml/min at 40°C

Injection volume : 0.1ppm 3μl

[MS/MS]

ESI, MRM

IonSpray Voltage : 5500V(pos)

-4500V(neg mode)

Temperature : 400°C

Curtein Gas : 20

CollisonGas : 3

Ion Source Gas 1 : 50

Ion Source Gas 2 : 80

System : 3200Q TRAP (ABI)

● Analytical conditions ● (V · PL-1、 V · PL-2)

[HPLC]

Column : Wakopak® Wakosil-II 3C18 HG, 3.0x150mm

Eluent : A) 0.1% Formic Acid in CH₃CN

B) 0.1% Formic Acid in H₂O

Gradient :

Time (min)	A(%)	B(%)
0	1	99
35	100	0
40	100	0

Flow rate : 0.2ml/min at 40°C

Injection volume : 0.1ppm 4μl

[MS/MS]

ESI, MRM

IonSpray Voltage : 5500V(pos)

-4500V(neg mode)

Temperature : 400°C(pos mode)

500°C(neg mode)

Curtein Gas : 20

CollisonGas : 6

Ion Source Gas 1 : 50

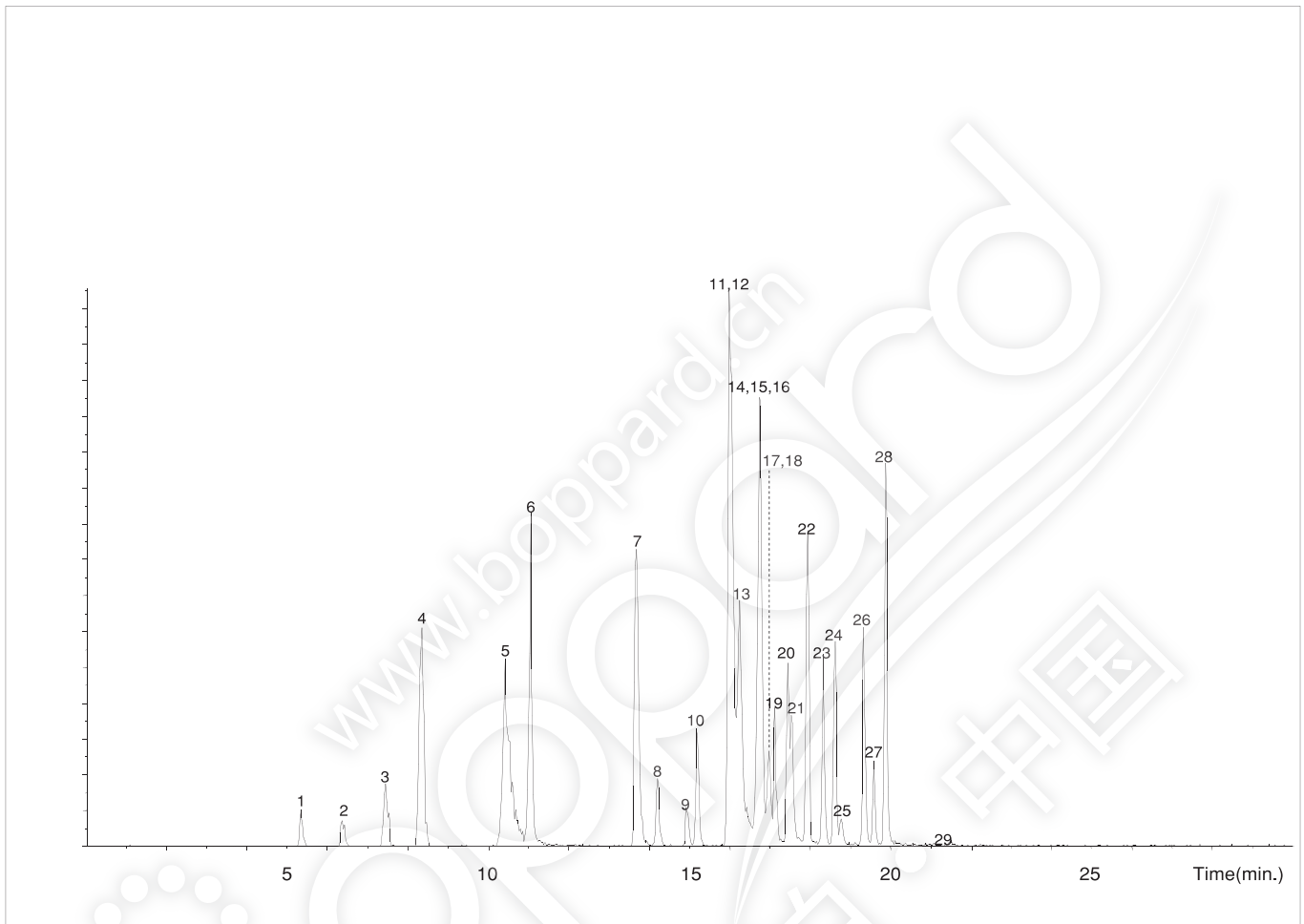
Ion Source Gas 2 : 80

System : 3200Q TRAP (ABI)

Pesticide Mixture Standard Solution PL-7-2

Wako Cat. # (163-23021:1ml×5 169-23023:1ml)

LC/MS/MS Chromatogram (Positive Mode/MRM)



Column : Wakopak® Wakosil-II 3C18 HG 2.0x150mm

29 compounds, 20 μ g/ml each in Acetonitrile

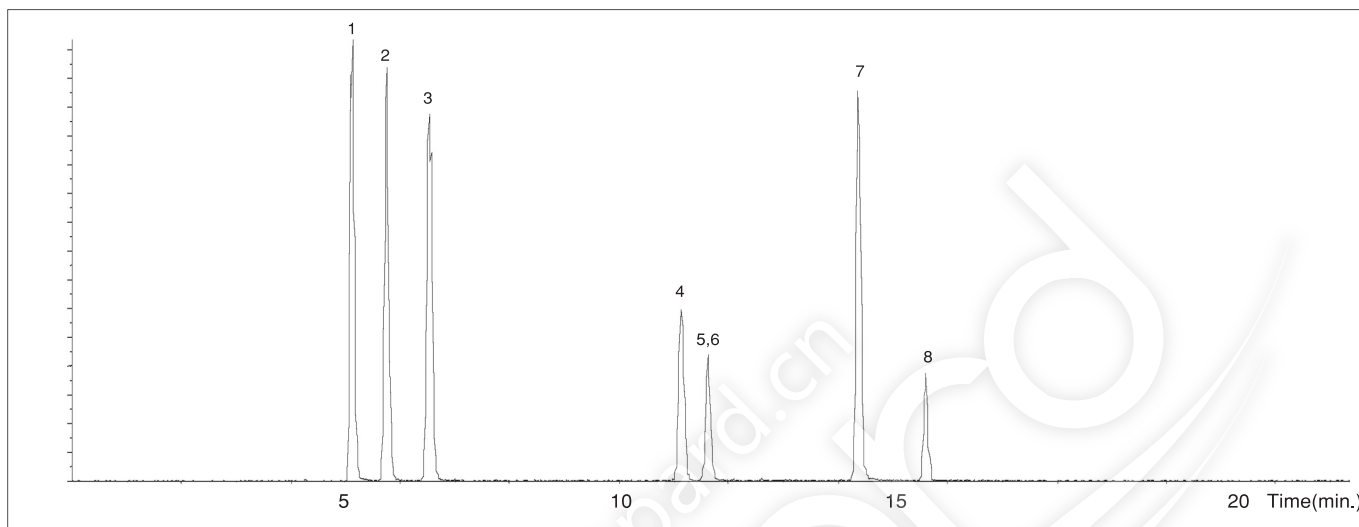
Peak No.	Component Name	Monitoring Ions (m/z)		Peak No.	Component Name	Monitoring Ions (m/z)	
		Precursor	Product			Precursor	Product
1	Thiamethoxam	292	211.2	16	Butafenacil	475.1	331.1
2	Clothianidin	250	132.1	17	Simeconazole	294.1	70.1
3	Chloridazon (PAC)	222.1	77.2	18	Oryzalin	347.1	288.2
4	Thiacloprid	253	126	19	Cyazofamid	325.1	108.2
5	Thiabendazole	202.1	175.1	20	Naproanilide	292.1	171.3
6	Azamethiphos	325	183.1	21	Fenoxycarb	302.2	88.1
7	Dimethirimol	210.2	71.1	22	Anilofos	368.1	199.1
8	Isoxaflutole	360.1	251.1	23	Cyflufenamid	413	295.2
9	Azinphos-methyl	318	132.2	24	Pyrazolynate (Pyrazolate)	439	91.1
10	Pyrifthalid	319.1	139.1	25	Indoxacarb (Indoxacarb-MP)	528.1	203.2
11	(E)-Ferimzone	255.2	91.2	26	Benzofenap	431	105.2
12	(Z)-Ferimzone	255.2	91.2	27	Furathiocarb	383.2	195.3
13	Methoxyfenozide	369.2	149.2	28	Cloquintocet-mexyl	336.2	238.2
14	Iprovalicarb	321.2	119.1	29	Abamectin B1a	890.6	305.3
15	Chromafenozide	395.2	175.1				

Pesticide Mixture Standard Solution PL-8-1

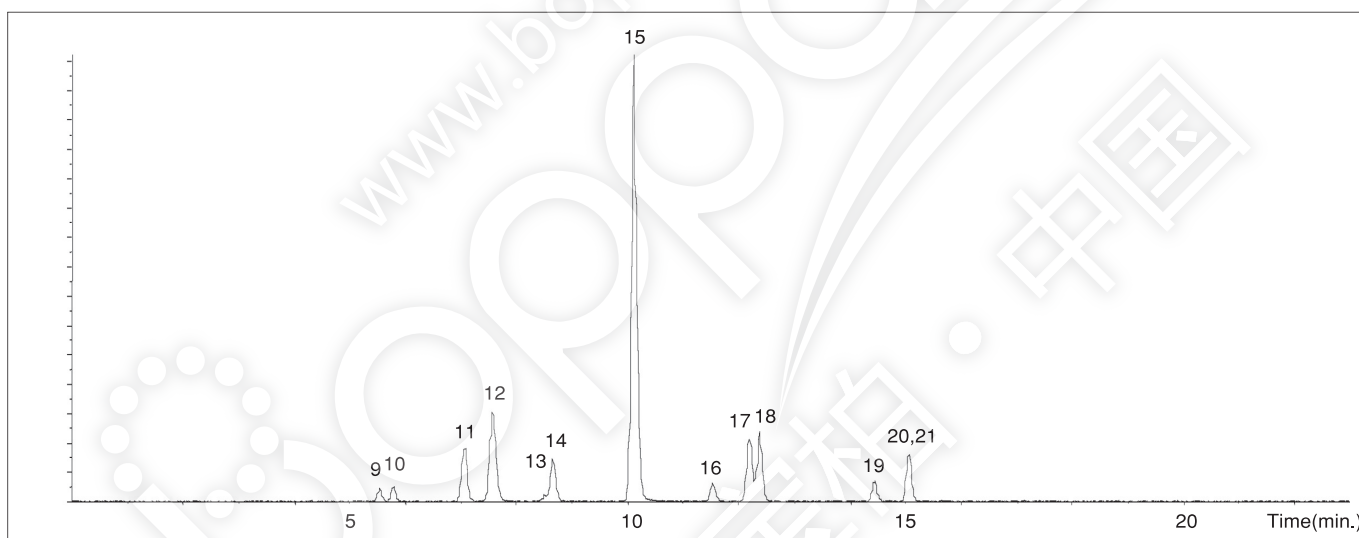
Wako Cat. #

(160-23031:1mlX5 166-23033:1ml)

■ LC/MS/MS Chromatogram (Positive Mode/MRM)



□ LC/MS/MS Chromatogram (Negative Mode/MRM)



Column : Wakopak® Wakosil-II 3C18 HG 2.0x150mm

21 compounds, 20 µg/ml each in Acetonitrile

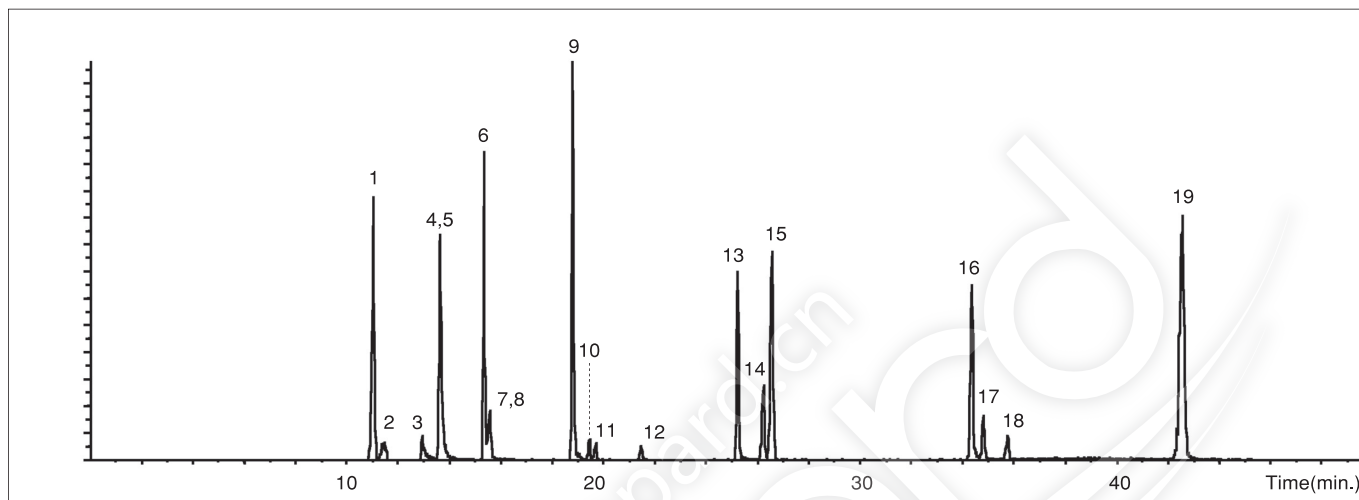
Peak No.	Component Name	Monitoring Ions (m/z)		Peak No.	Component Name	Monitoring Ions (m/z)	
		Precursor	Product			Precursor	Product
1	Flumetsulam	326.1	129.1	9	Gibberellin (Gibberellin A3)	-345	-142.9
2	Thifensulfuron-methyl	388	167.2	10	Fluroxypyr	-252.9	-194.7
3	Florasulam	360	129.3	11	4-Chlorophenoxyacetic Acid (4-CPA)	-184.9	-126.9
4	Cloransulam-methyl	430	398.1	12	Bromoxynil	-275.7	-80.8
5	Diclosulam	406	161.1	13	1-Naphthaleneacetic Acid	-184.9	-141
6	Thidiazuron	221	102.1	14	Cloprop	-198.9	-126.7
7	Forchlorfenuron	248.1	129.2	15	Ioxynil	-369.7	-126.8
8	Haloxypop	362.1	316.2	16	Triclopyr	-255.8	-197.9
				17	Mecoprop (MCP)	-213	-140.7
				18	Dichlorprop	-232.9	-160.9
				19	MCPB	-227	-140.9
				20	Acifluorfen	-359.9	-316.1
				21	Fomesafen	-437	-195

Veterinary Drug Mixture Standard Solution PL-1-2

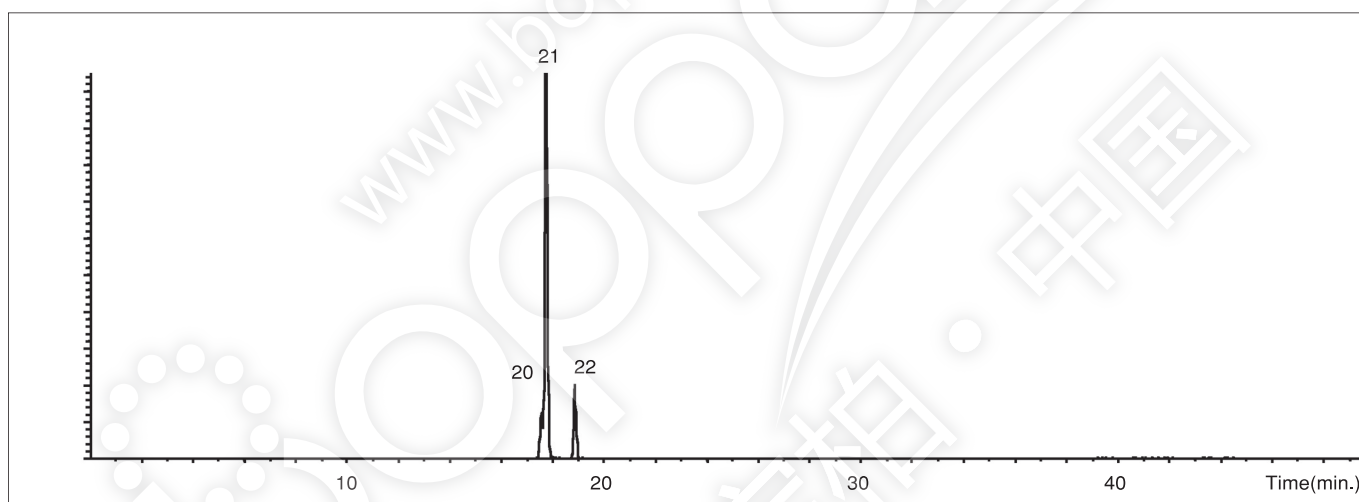
Wako Cat. #

(220-01681:1mlX5 226-01683:1ml)

■ LC/MS/MS Chromatogram (Positive Mode/MRM)



□ LC/MS/MS Chromatogram (Negative Mode/MRM)



Column : Wakopak® Wakosil-II 3C18 HG 3.0x150mm

22 compounds, 20 μ g/ml each in Methanol

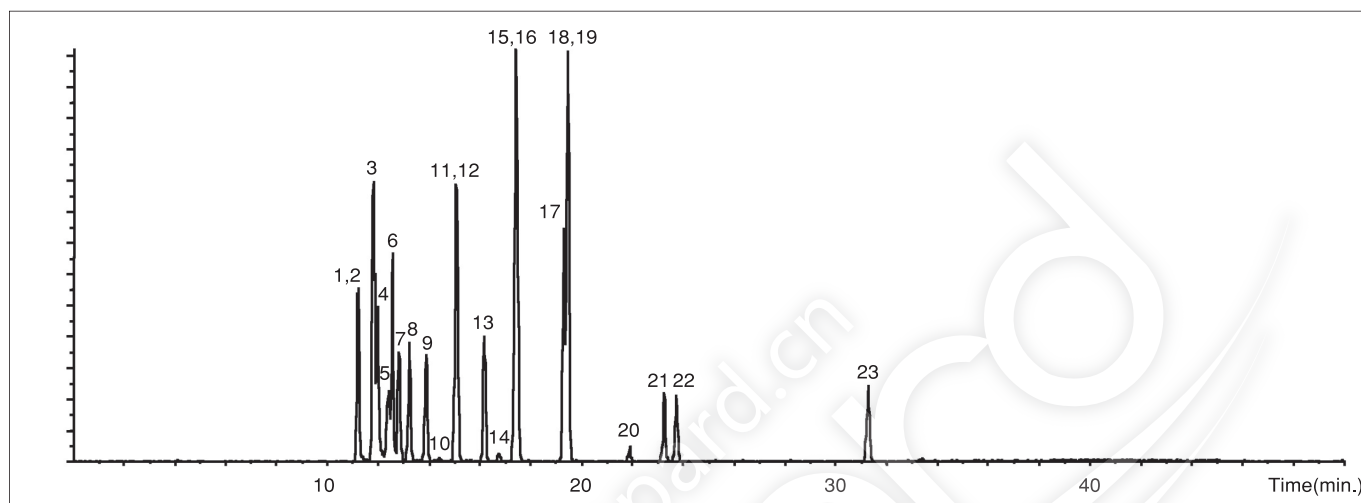
Peak No.	Component Name	Monitoring Ions (m/z)		Peak No.	Component Name	Monitoring Ions (m/z)	
		Precursor	Product			Precursor	Product
1	Lincomycin*	407.2	126.3	14	Famphur	326	93.1
2	Sulfacetamide	215.1	92.1	15	Fenobucarb (BPMC)	208.2	95.1
3	Danofloxacin*	358.2	82.2	16	Temephos (Abate)	467	125
4	Xylazine*	221.1	90.1	17	Allethrin	303.2	91.2
5	Clenbuterol	278.2	204.2	18	Eprinomectin B1a	914.5	186.3
6	Pyrimethamine	249.1	177.2	19	Monensin*	688.5	461.4
7	Trichlorfon (DEP)	258.9	109.1	Peak No.	Component Name	Monitoring Ions (m/z)	
8	Tilmicosin	869.6	174.2			Precursor	Product
9	Tiamulin*	494.3	192.1	20	Florfenicol	-357.8	-184.8
10	Prednisolone	361.2	147	21	2-Acetylamino-5-nitrothiazole	-185.9	-138.9
11	Hydrocortisone	363.3	121.1	22	Clorsulon	-379.7	-343.9
12	Dexamethasone	393.2	147.2				
13	Emamectin B1a*	887.5	158.3				

Veterinary Drug Mixture Standard Solution PL-2-1

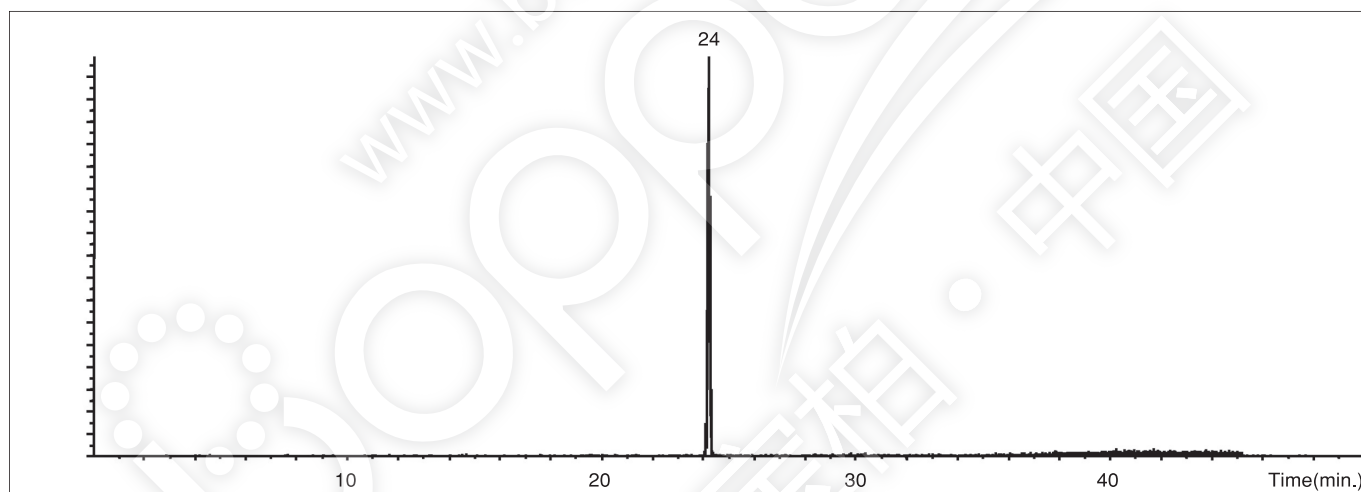
Wako Cat. #

(220-01681:1ml×5 226-01683:1ml)

LC/MS/MS Chromatogram (Positive Mode/MRM)



LC/MS/MS Chromatogram (Negative Mode/MRM)



Column : Wakopak® Wakosil-II 3C18 HG 3.0x150mm

24 compounds, 20 μg/ml each in Methanol

Peak No.	Component Name	Monitoring Ions (m/z)		Peak No.	Component Name	Monitoring Ions (m/z)	
		Precursor	Product			Precursor	Product
1	5-Propylsulfonyl-1H-benzimidazole-2-amine	240.1	133.2	14	Sulfachlorpyridazine	286.1	157.1
2	Levamisole	207.1	91.2	15	Sulfamethoxazole	254.6	156
3	Thiabendazole	202.1	175.1	16	Sulfadoxine	311.1	156.1
4	Trimethoprim	291.1	230.3	17	Ethopabate	238.2	136
5	Sulfadiazine	251.1	92.2	18	Sulfaquinoxaline	301	156.2
6	Ormetoprim	275.2	123.1	19	Sulfadimethoxine	311.1	156.2
7	Sulfathiazole	256	156	20	Sulfanitran	336.1	134.1
8	Sulfapyridine	250	156.2	21	β-Trenbolone	271.2	165.3
9	Sulfamerazine	265.1	92.2	22	α-Trenbolone	271.2	165.2
10	Thiamphenicol	355.9	308	23	Melengestrol Acetate	397.2	279.4
11	Sulfadimidine	279.1	92.1	Peak No.	Component Name	Monitoring Ions (m/z)	
12	Sulfamethoxyipyridiazine	281.1	156.1			Precursor	Product
13	Sulfamonomethoxine	281.1	156.1	24	Zeranol	-321.1	-277.2

2. The list of Wako's reference materials for the positive list system



www.boppai.com

宝珀·中国

List of Pesticides and Veterinary drugs for which MRLs are currently established and no Provisional MRLs are proposed

No.*1	Compound name in Positive List System	CAS No.	Wako Catalog No.	Description	Grade*2	Pkg. Size	*3	
1	1	alpha-BHC	58-89-9	021-05711	α -BHC Standard	A	200mg	
1	2	beta-BHC	319-84-6	028-05721	β -BHC Standard	A	200mg	
1	3	gamma-BHC	319-85-7	025-05731	γ -BHC Standard	A	200mg	
1	4	delta-BHC	319-86-8	022-05741	δ -BHC Standard	A	200mg	
2		DCIP	108-60-1	040-17013	DCIP Standard	A	200mg	
3		EPN	2104-64-5	052-02841	EPN Standard	A	200mg	
4		ISOPROCARB	2631-40-5	134-06811	MIPC Standard	A	200mg	
5		INABENFIDE	82211-24-3		Not available now			
6		IMAZOSULFURON	122548-33-8	099-03891	Imazosulfuron Standard	A	200mg	
7		INDANOFAN	133220-30-1	098-04841	Indanofan Standard	A	200mg	
9		ESPROCARB	85785-20-2	059-05891	Esprocarb Standard	A	200mg	
9		ETHIOFENCARB	29973-13-5	051-04033	Ethiofencarb Standard	A	200mg	
10		ETHIPROLE	181587-01-9	055-07571	Ethiprole Standard	A	200mg	
11		EDIFENPHOS	17109-49-8	053-03133	EDDP Standard	A	200mg	
12		ETOBENZANID	79540-50-4		Not available now			
13		ETRIMFOS	38260-54-7	058-06081	Etrifos Standard Solution (1mg/ml Hexane Solution)	A	1ml X 5A	
14		OXAZICLOMEFONE	153197-14-9		Not available now			
15-1	1	OXFENDAZOLE	53716-50-0	155-02541	Oxfendazole Standard	A	200mg	
15-1	2	OXFENDAZOLE SULFONE	-		Not available now			
15-2		FEBANTEL	58306-30-2		Not available now			
15-3		FENBENDAZOLE	43210-67-9	064-04661	Fenbendazole Standard	A	200mg	
16		CAFENSTROLE	125306-83-4	035-17001	Cafenstrole Standard	A	200mg	
17		CARPROPAMID	104030-54-8		Not available now			
18		CANTHAXANTHIN	514-78-3		Not available now			
19		CUMYLURON	99485-76-4	038-17351	Cumyluron Standard	A	200mg	
20		DIETHOFENCARB	87130-20-9	045-24131	Diethofencarb Standard	A	200mg	
21	1	DICLOCYMET	139920-32-4	040-28101	Diclocymet Standard	A	200mg	
21	2	(R)-2-CYANO-N-[(R)-1-(2,4-DICHLOROPHENYL)ETHYL]-3,3-DIMETHYLBUTYLAMIDE	-		Not available now			
21	3	(S)-2-CYANO-N-[(R)-1-(2,4-DICHLOROPHENYL)ETHYL]-3,3-DIMETHYLBUTYLAMIDE	-		Not available now			
22		CYCLOSULFAMURON	136849-15-5	033-18901	Cyclosulfamuron Standard	A	200mg	
23		DICLOMEZINE	62865-36-5	044-25201	Dicromezine Standard	A	200mg	
24		CYHALOFOP-BUTYL	122008-85-9	035-17241	Cyhalofop-butyl Standard	A	200mg	
25		(E)-DIMETHYLVINPHOS	71363-52-5	044-26063	(E)-Dimethylvinphos Standard	A	50mg	
25		(Z)-DIMETHYLVINPHOS	67628-93-7	045-25231	(Z)-Dimethylvinphos Standard	A	200mg	
26		SIMETRYN	1014-70-6	193-08043	Simetryn Standard	A	200mg	
27		CINMETHYLIN	87818-31-3	035-16521	Cinmethylin Standard	A	200mg	
28		DAIMURON	42609-52-9	043-26251	Daimuron Standard	A	200mg	
29		THIFLUZAMIDE	130000-40-7	206-14773	Thifluzamide Standard	A	100mg	
30	1	TECLOFTALAM	76280-91-6	205-13481	Teclotfalam Standard	A	200mg	
30	2	TECLOFTALAM IMIDE	26491-30-5	202-13491	Teclotfalam Metabolite Standard	A	200mg	
31		THENYLCHLOR	96491-05-3	203-13421	Thenylchlor Standard	A	200mg	
32	1	COPPER TELEPHTHALATE	28758-10-3	033-15581	Copper (II) Telephthalate Trihydrate Standard	A	200mg	
32	2	TELEPHTHALATE	100-21-0	202-08165	Terephthalic Acid	C	500g	●
33		TRICHLAMIDE	70193-21-4	204-09301	Trichlamide Standard	A	200mg	
34		TRICYCLAZOLE	41814-78-2	208-13111	Tricyclazole Standard	A	200mg	
35		TOLCLOFOS-METHYL	57018-04-9	201-11381	Tolclofos-methyl Standard	A	200mg	
36		TOLFENPYRAD	129558-76-5	203-16841	Tolfenpyrad Standard	A	100mg	
37		PB	7439-92-1		Not available now			
38		BISPYRIBAC-SODIUM	125401-92-5	024-14111	Bispyribac-sodium Standard	A	100mg	
39		ARSENIC TRIOXIDE	7440-38-2		Not available now			
40		BIFENOX	42576-02-3	021-08251	Bifenox Standard	A	100mg	
41		PYRAZOXYFEN	71561-11-0	168-16741	Pyrazoxyfen Standard	A	200mg	
42		PYRIDALYL	179101-81-6	163-21941	Pyridalyl Standard	A	200mg	
43	1	(E)-PYRIFENOX	83227-22-9	167-16691	(E)-Pyrifenox Standard	A	200mg	
43	2	(Z)-PYRIFENOX	83227-23-0	160-16701	(Z)-Pyrifenox Standard	A	200mg	
44		PYRIBUTICARB	88678-67-5	167-16211	Pyributicarb Standard	A	200mg	
45	1	(E)-PYRIMINOBAC-METHYL	147411-69-6	166-19841	(E)-Pyriminobac-methyl Standard	A	200mg	
45	2	(Z)-PYRIMINOBAC-METHYL	147411-70-9	163-19851	(Z)-Pyriminobac-methyl Standard	A	50mg	
46	1	PIRLIMYCIN	79548-73-5		Not available now			
46	2	PIRLIMYCIN SULFOXIDE	-		Not available now			
47		FENOXANIL	115852-48-7	064-04301	Fenoxanil Standard	A	200mg	
48		FENSULFOTHION	115-90-2		Not available now			
49	1	FENTRAZAMIDE	158237-07-1		Not available now			
49	2	CPT	-	031-19281	CPT Standard	A	50mg	
50		BUTACHLOR	23184-66-9	021-12161	Butachlor Standard	A	200mg	
51		BUTYLATE	2008-41-5	026-12971	Butylate Standard	A	200mg	
52	1	FURAMETPYR	123572-88-3	062-03741	Furametpyr Standard	A	200mg	
52	2	FURAMETPYR-HYDROXY	-	069-03871	Furametpyr-hydroxy Standard	A	20mg	
53		PRETILACHLOR	51218-49-6	168-16361	Pretilachlor Standard	A	200mg	
54		PROTHIOFOS	34643-46-4	168-11883	Prothiofos Standard	A	200mg	
55	1	PROHYDROJASMON	158474-72-7	166-22891	Prohydrojasmon Standard (mixture of isomers)	A	200mg	
55	2	TRANS-PROHYDROJASMON	-		Not available now			
55	3	EPI-PROHYDROJASMON	-		Not available now			
56		PENTOXAZONE	110956-75-7	169-19691	Pentoxazone Standard	A	200mg	
57		BENFURESATE	68505-69-1	027-12881	Benfuresate Standard	A	200mg	
58		MEFENACET	73250-68-7	137-11671	Mefenacet Standard	A	200mg	
59		MEPRONIL	55814-41-0	133-07903	Mepronil Standard	A	200mg	
60		MOLINATE	2212-67-1	134-12161	Molinate Standard	A	200mg	

No.*1	Compound name in Positive List System	CAS No.	Wako Catalog No.	Description	Grade*2	Pkg. Size	*3
61	RACTOPAMINE	97825-25-7	182-01971	Ractopamine Hydrochloride Standard	B	200mg	
62	LENACIL	2164-08-1	123-03801	Lenacil Standard	A	200mg	
add1	CADUSAFOS	95465-99-9	036-18871	Cadusafos Standard	A	100mg	

List of Chemicals for which the Provisional MRLs will be set

1	[MONOBIS(TRIMETHYLAMMONIUM-METHYLENE CHLORIDE)]-ALKYL TOLUENE	-		Not available now			
2	1,1-DICHLORO-2,2-BIS(4-ETHYLPHENYL)ETHANE	72-56-0	044-29601	1,1-Dichloro-2,2-bis(4-ethylphenyl)ethane Standard	A	200mg	
3	1-NAPHTHALENEACETIC ACID	86-87-3	148-06511	1-Naphthylacetic Acid Standard	A	200mg	
4	2-(1-NAPHTHYL)ACETAMIDE	86-86-2	141-06501	1-Naphthylacetamide Standard	A	200mg	
5	1 2,2-DPA	75-99-0		Not available now			
5	2 2,2-DPA-SODIUM	127-20-8	046-25141	DPA Sodium Standard	A	200mg	
6	1 2,4-D	94-75-7	167-18151	2,4-PA Standard	A	200mg	
6	2 2,4-D-SODIUM	2702-72-9		Not available now			
6	3 2,4-D-DIMETHYLAMINE	2008-39-1		Not available now			
6	4 2,4-D-ETHYL	533-23-3		Not available now			
6	5 2,4-D-ISOPROPYL	94-11-1		Not available now			
6	6 2,4-D-BUTOXYETHYL	1929-73-3		Not available now			
6	7 2,4-D-ALKANOLAMINE	-		Not available now			
7	1 2,4-DB	94-82-6	048-29741	2,4-DB Standard	A	200mg	
7	2 2,4-DB-SODIUM	10433-59-7		Not available now			
7	3 2,4-DB-BUTYL	6753-24-8		Not available now			
7	4 2,4-DB-DIMETHYLAMMONIUM	2758-42-1		Not available now			
7	5 2,4-DB-ISOOCTYL	1320-15-6		Not available now			
8	2,6-DIFLUOROBENZOIC ACID	385-00-2	045-29371	2,6-Difluorobenzoic Acid Standard	A	200mg	
9	2-ACETYLAMINO-5-NITROTHIAZOLE	140-40-9	018-21421	2-Acetylamino-5-nitrothiazole Standard	B	200mg	
10	4-AMINOPYRIDINE	504-24-5	015-20451	4-Aminopyridine Standard	A	200mg	
11	4-CHLOROPHENOXYACETIC ACID	122-88-3	030-19511	4-CPA Standard	A	200mg	
11-1	5-(PROPYLSULFONYL)-1-H-BENZIMIDAZOLE-2-AMINE	80983-34-2	164-22211	5-Propylsulfonyl-1H-benzimidazole-2-amine Hydrobromide Standard	B	100mg	
12	DBEDC	61607-82-7		Not available now			
13	1 DDT	50-29-3		Not available now			
13	2 p,p'-DDD	72-54-8	046-27101	p,p'-DDD Standard	A	200mg	
13	3 p,p'-DDE	72-55-9	043-27111	p,p'-DDE Standard	A	200mg	
13	4 p,p'-DDT	50-29-3		Not available now			
13	5 o,p'-DDT	789-02-6		Not available now			
14	EPTC	759-94-4	058-06221	EPTC Standard	A	200mg	
15	1 MCPA	94-74-6	136-10541	MCP Standard	A	200mg	
15	2 MCPA ETHYL ESTER	2698-38-6	138-07573	MCP Ethyl Ester Standard	A	200mg	
15	3 MCPA SODIUM	3635-48-3		Not available now			
15	4 MCPA THIOETHYL ESTER	25319-90-8	168-18441	Phenothiol Standard	A	200mg	
16	MCPB	94-81-5	133-12491	MCPB Standard	A	200mg	
17	ODB	95-50-1		Not available now			
18	SEC-BUTYLAMINE	13952-84-6	023-12741	(±)-1-Methylpropylamine Standard	A	200mg	
19	TCMTB	21564-17-0		Not available now			
20	XMC	2655-14-3	248-00501	XMC Standard	A	200mg	
21	IOXYNIL	3861-47-0		Not available now			
22	ACRINATHRIN	101007-06-1	018-16651	Acrinathrin Standard	A	200mg	
23	AKLOMIDE	3011-89-0	011-21411	Aklomide Standard	B	200mg	
24	AZACONAZOLE	60207-31-0		Not available now			
25	AZAFENIDIN	68049-83-2		Not available now			
26	AZAPERONE	1649-18-9		Not available now			
27	AZAMETHIPHOS	35575-96-3		Not available now			
28	ACIFLUORFEN	50594-66-6	010-20521	Acifluorfen Standard	A	200mg	
29	1 ACIBENZOLAR-S-METHYL	135158-54-2	014-18331	Acibenzolar-S-methyl Standard	A	200mg	
29	2 ACIBENZOLAR ACID	35272-27-6	018-19451	Acibenzolar Acid Standard	A	100mg	
30	AZIMSULFURON	120162-55-2	012-18251	Azimsulfuron Standard	A	200mg	
31	ASULAM	3337-71-1	019-13521	Asulam Standard	A	200mg	
32	AZINPHOS-METHYL	86-50-0	012-16051	Azinphos-methyl Standard	A	200mg	
33	ASPOXCILLIN	63358-49-6		Not available now			
34	1 ACEQUINOCYL	57960-19-7	018-18591	Acequinocyl Standard	A	200mg	
34	2 ACEQUINOCYL-HYDROXY	57960-31-3	011-18601	Acequinocyl-hydroxy Standard	A	200mg	
35	ACETAMIPRID	160430-64-8	014-16491	Acetamiprid Standard	A	200mg	
36	ACETOCHLOR	34256-82-1	013-20511	Acetochlor Standard	A	200mg	
37	ACEPHATE	30560-19-1	017-08953	Acephate Standard	A	200mg	
38	AZOXYSTROBIN	131860-33-8	015-19003	Azoxystrobin Standard	A	100mg	
39	ATRAZINE	1912-24-9	010-15631	Atrazine Standard	A	200mg	
40	ANIRAZINE	101-05-3	201-06751	Triazine Standard	A	200mg	
41	ANILOFOS	64249-01-0	016-20241	Anilofos Standard	A	200mg	
42	1 ABAMECTIN	71751-41-2	016-20361	Abamectin Standard	A	200mg	
42	2 ABAMECTIN B1a	65195-55-3		Not available now			
42	3 ABAMECTIN B1b	65195-56-4		Not available now			
42	4 8,9-Z-ABAMECTIN B1a	-		Not available now			
42	5 8,9-Z-ABAMECTIN B1b	-		Not available now			
43	AVILAMYCIN	11051-71-1		Not available now			
44	APRAMYCIN	37321-09-8					
45	AVOPARCIN	37332-99-3		Not available now			
46	1 AMITRAZ	33089-61-1	015-09593	Amitraz Standard	A	200mg	
46	2 N-2,4-DIMETHYLPHENYL-N'-METHYLFORMAMIDINE	51550-40-4	011-14941	Amitraz Metabolite Hydrochloride Standard	A	200mg	
47	AMINOETHOXYVINYLGLYCINE	49669-74-1		Not available now			
48	AMETRYN	834-12-8		Not available now			
49	AMOXICILLIN	26787-78-0	018-20441	Amoxicillin Trihydrate Standard	B	200mg	

No.* ¹	Compound name in Positive List System	CAS No.	Wako Catalog No.	Description	Grade* ²	Pkg. Size	* ³
50	ALACHLOR	15972-60-8	016-16331	Alachlor Standard	A	200mg	
51	ALANYCARB	83130-01-2	017-15521	Alanycarb Standard	A	200mg	
52	ARAMITE	140-57-8		Not available now			
53	ALLIDOCHLOR	93-71-0	019-20611	Allidochlor Standard	A	100mg	
54	ALDICARB	116-06-3	012-14111	Aldicarb Standard	A	200mg	
55	ALDOXYCARB	1646-88-4		Not available now			
56	ALTRENOGEST	850-52-2	013-21231	Altrenogest Standard	B	100mg	
57	1 ALLETHRIN	584-79-2	018-17011	Allethrin Standard	A	200mg	
57	2 BIOALLETHRIN	584-79-2		Not available now			
58	ALLOXYDIM	55635-13-7	015-09733	Alloxydim-Sodium Standard	A	200mg	
59	AMPICILLIN	69-53-4	017-20531	Ampicillin Standard	B	200mg	
60	AMPROLIUM	121-25-5	017-20651	Amprolium Hydrochloride Standard	B	200mg	
61	1 IODOSULFURON METHYL	185119-76-0		Not available now			
61	2 IODOSULFURON METHYL-SODIUM	185119-76-0		Not available now			
62	ISAZOFOS	42509-80-8	095-05451	Isazofos Standard	A	200mg	
63	ISOURON	55861-78-4	095-03871	Isouron Standard	A	200mg	
64	ISOEUGENOL	97-54-1	091-05291	Isoeugenol Standard (mixture of cis- and trans-)	B	200mg	
65	ISOXADIFEN-ETHYL	163520-33-0		Not available now			
66	ISOXATHION	18854-01-8	093-03931	Isoxathion Oxon Standard	A	200mg	
67	ISOXAFLUTOLE	141112-29-0		Not available now			
68	ISOCYANURATE	108-80-5	091-05311	Isocyanuric Acid Standard	B	200mg	
69	DIPROPYL ISOCINCHOMERONATE	136-45-8		Not available now			
70	1 ISOFENPHOS	25311-71-1	094-03461	Isofenphos Standard	A	200mg	
70	2 ISOFENPHOS OXON	31120-85-1	098-03981	Isofenphos Oxon Standard	A	200mg	
71	ISOPROTHIOLANE	50512-35-1	099-02333	Isoprothiolane Standard	A	200mg	
72	ISOMETAMIDIUM	34301-55-8	094-05301	Isometamidium Chloride Standard (mixture of isomers)	B	200mg	
73	1 IPRDIONE	36734-19-7	094-02383	Iprodione Standard	A	200mg	
73	2 N-(3,5-DICHLOROPHENYL)-3-ISOPROPYL-2,4-DIOXOIMIDAZOLIDINE-1-CARBOXSMIDE	63637-89-8	091-02393	Iprodione Metabolite Standard	A	200mg	
74	IPROVALICARB	140923-17-7		Not available now			
75	IPROBENFOS	26087-47-8	093-02233	IBP Standard	A	200mg	
76	1 IVERMECTIN	70288-86-7	090-05521	Ivermectin Standard	B	200mg	
76	2 22,23-DIHYDROXYAVELMECTIN B1a	-		Not available now			
77	IMAZAQUIN	81335-37-7	092-04001	Imazaquin Standard	A	200mg	
78	1 IMAZAPIC-AMMONIUM	104098-49-9		Not available now			
78	2 IMAZAPIC	104098-48-8	093-05491	Imazapic Standard	A	200mg	
79	IMAZAPYR	81334-34-1	099-04011	Imazapyr Standard	A	200mg	
80	IMAZAMETHABENZ METHYL ESTER	81405-85-8		Not available now			
81	1 IMAZAMOX	114311-32-9	095-04591	Imazamox Standard	A	50mg	
81	2 IMAZAMOX-AMMONIUM	-		Not available now			
82	IMAZALIL	35554-44-0	098-03501	Imazalil Standard	A	200mg	
83	1 IMAZATHAPYR AMMONIUM	101917-66-2		Not available now			
83	2 IMAZATHAPYR	81335-77-5	093-05511	Imazethapyr Standard	A	200mg	
84	IMIDACLOPRID	105827-78-9	099-03771	Imidacloprid Standard	A	200mg	
85	IMIDOCARB	55750-06-6	092-05461	Imidocarb Dipropionate Standard	B	200mg	
86	1 IMINOCTADINE	13516-27-3		Not available now			
86	2 IMINOCTADINE TRIACETIC ACID	57520-17-9	092-03901	Iminoctadine Triacetic Acid Standard	A	200mg	
86	3 IMINOCTADINE ALBESILATE	169202-06-6	097-04051	Iminoctadine Albesilate Standard	A	200mg	
87	1 IMIBENCONAZOLE	86598-92-7	095-04091	Imibenconazole Standard	A	200mg	
87	2 IMIBENCONAZOLE DEBENZYL	154221-27-9	098-04081	Imibenconazole-debenzyl Standard	A	200mg	
87	3 2,4-DICHLOROANILINE	554-00-7	045-25591	2,4-Dichloroaniline Standard	A	200mg	
88	INDOXACARB	144171-61-9	099-04991	Indoxacarb-MP Standard	A	200mg	
89	1 UNICONAZOLE-P	83657-17-4	212-00981	Uniconazole P Standard	A	200mg	
89	2 UNICONAZOLE	83657-22-1		Not available now			
90	ETHAMETSULFURON-METHYL	97780-06-8	059-07591	Ethametsulfuron-methyl Standard	A	200mg	
91	ETHALFLURALINE	55283-68-6	052-07461	Ethalfuralin Standard	A	200mg	
92	ETHION	563-12-2	051-03173	Ethion Standard	A	200mg	
93	1 ETHYCHLOZATE	27512-72-7	057-06431	Ethychozate Standard	A	200mg	
93	2 5-CHLORO-3(1H)-INDAZOLEACETIC ACID	-		Not available now			
94	ETYPROSTONTROMETHAMINE	-		Not available now			
95	ETHEPHON	16672-87-0	050-04961	Ethephon Standard	A	200mg	
96	ETOXAZOLE	153233-91-1	054-06681	Etoxazole Standard	A	200mg	
97	ETHOXYQUIN	91-53-2		Not available now			
98	ETHOXYLSULFURON	126801-58-9	054-06821	Ethoxysulfuron Standard	A	50mg	
99	ETHOPABATE	1959-06-3	055-06231	Ethopabate Standard	B	200mg	
100	ETOFENPROX	80844-07-1	053-05193	Ethofenprox Standard	A	200mg	
101	ETHOFUMESATE	26225-79-6		Not available now			
102	ETHOPROPHOS	13194-48-4	051-05611	Ethoprophos Standard	A	200mg	
103	ETRIDIAZOLE	2593-15-9	053-03493	Echlomezol Standard	A	200mg	
104	1 EPRINOMECTIN	123997-26-2		Not available now			
104	2 EPRINOMECTIN B1a	133305-88-1		Not available now			
105	EFROTOMYCIN	56592-32-6		Not available now			
106	EPOXICONAZOLE	106325-08-0	054-07661	Epoxiconazole Standard	A	200mg	
107	1 EMAMECTIN BENZOATE	155569-91-8		Not available now			
107	2 EMAMECTIN BENZOATE (B1a, B1b)	-		Not available now			
107	3 EMAMECTIN (B1a, B1b)	-		Not available now			
107	4 EMAMECTIN-AMINO (B1a, B1b)	-		Not available now			
107	5 EMAMECTIN-FORMYL AMINO (B1a, B1b)	-		Not available now			
107	6 EMAMECTIN-N-FORMYL AMINO (B1a, B1b)	-		Not available now			
107	7 8,9-Z-EMAMECTIN B1a	-		Not available now			
107	8 EMAMECTIN B1a	-		Not available now			
108	ERYTHROMYCIN	114-07-8		Not available now			
109	DIDECYLDIMETHYLAMMONIUM CHLORIDE	7173-51-5	321-45141	70% Didecyltrimethylammonium Chloride 2-Propanol Solution	C	5g	●

No.*1	Compound name in Positive List System	CAS No.	Wako Catalog No.	Description	Grade*2	Pkg. Size	*3
110	FORMETANATE HYDROCHLORIDE	23422-53-9	060-03541	Formetanate Hydrochloride Standard	A	200mg	
111	METOSERPATE HYDROCHLORIDE	-		Not available now			
112	1 ENDOSULFAN	115-29-7		Not available now			
112	2 alpha-ENDOSULFAN	959-98-8	027-06391	α -Benzoepin Standard	A	100mg	
112	3 beta-ENDOSULFAN	33213-65-9	020-06401	β -Benzoepin Standard	A	100mg	
112	4 ENDOSULFAN SULFATE	1031-07-8	020-06761	Benzoepin Sulfate Standard	A	200mg	
113	ENDOTHAL	145-73-3	053-06411	Endothal Monohydrate Standard	A	200mg	
114	ENDRIN	72-20-8		Not available now			
115	ENRAMAYCIN	11115-82-5					
116	ENROFLOXACIN	93106-60-6	059-07471	Enrofloxacin Standard	B	200mg	
117	EUGENOL	97-53-0	059-07351	Eugenol Standard	B	200mg	
118	OXADIAZON	19666-30-9	151-01203	Oxadiazon Standard	A	200mg	
119	OXADIXYL	77732-09-3		Not available now			
120	OXACILLIN	7240-38-2	158-02531	Oxacillin Sodium Monohydrate Standard	B	200mg	
121	OXAMYL	23135-22-0	151-01781	Oxamyl Standard	A	200mg	
122	OXABETRINIL	74782-23-3		Not available now			
123	OXYCARBOXIN	5259-88-1		Not available now			
124	OXYCLOZANIDE	2277-92-1	159-02561	Oxyclozanide Standard	B	200mg	
125-1	OXYTETRACYCLINE	2058-46-0	157-02001	Oxytetracycline Hydrochloride Standard	B	200mg	
125-2	CHLORTETRACYCLINE	64-72-2	037-18041	Chlortetracycline Hydrochloride Standard	B	200mg	
125-3	TETRACYCLINE	64-75-5	206-15091	Tetracycline Hydrochloride Standard	B	200mg	
126	OXYDETHON-METHYL	301-12-2		Not available now			
127	OXYFLUORFEN	42874-03-3	150-02591	Oxyfluorfen Standard	A	200mg	
128	OXIBENDAZOLE	20559-55-1	153-02601	Oxibendazole Standard	B	200mg	
129	OXINE-COPPER	10380-28-6	158-01213	Oxine-copper Standard	A	200mg	
130	OXOLINIC ACID	14698-29-4	156-01851	Oxolinic Acid Standard	A	200mg	
131	OFLOXACIN	82419-36-1	150-02611	Ofloxacin Standard	B	200mg	
132	OMETHOATE	1113-02-6		Not available now			
133	OLAQUINDOX	23696-28-8	150-01991	Olaquinox Standard	B	200mg	
134	ORIZALIN	19044-88-3	158-02651	Orizalin Standard	A	200mg	
135	2-PHENYLPHENOL	90-43-7	169-17871	2-Phenylphenol Standard	A	200mg	
136	ORBIFLOXACIN	113617-63-3		Not available now			
137	ORMETOPRIM	6981-18-6		Not available now			
138	OLEANDOMYCIN	7060-74-4	155-01321	Olleandomycin Phosphate	C	1g	●
139	KASUGAMYCIN	6980-18-3		Not available now			
140	DELETED			Not available now			
141	KANAMYCIN	25389-94-0	117-00341	Kanamycin Sulfate	C	1g	●
142	CARAZOLOL	57775-29-8	030-17291	Carazolol Hydrochloride Standard	B	200mg	
143-1	1 CARTAP	15263-52-2		Not available now			
143-1	2 NEREISTOXIN OXALATE	1631-52-3	141-04161	Nereistoxin Oxalate Standard	A	200mg	
143-2	BENSULTAP	17606-31-4	024-09363	Bensultap Standard	A	200mg	
143-3	THIOCYCLAM	31895-22-4		Not available now			
144	CARBARYL	63-25-2	148-03831	NAC Standard	A	200mg	
145	CARFENTRAZONE-ETHYL	128639-02-1	030-20361	Carfentrazone-ethyl Standard	A	100mg	
146	CARPROFEN	53716-49-7	037-19761	Carprofen Standard	B	200mg	
147	CARBETAMIDE	16118-49-3		Not available now			
148-1	CARBENDAZIM	10605-21-7		Not available now			
148-2	BENOMYL	17804-35-2		Not available now			
148-3	1 THIOPHANATE-METHYL	23564-05-8	201-08233	Thiophanate-methyl Standard	A	200mg	
148-3	2 THIOPHANATE	23564-06-9	208-13611	Thiophanate Standard	A	200mg	
149	CARBOXIN	5234-68-4	034-19771	Carboxin Standard	A	200mg	
150	1 CARBOSULFAN	55285-14-8	031-16361	Carbosulfan Standard	A	200mg	
150	2 CARBOFURAN	1563-66-2	033-16321	Carbofuran Standard	A	200mg	
150	3 3-OH CARBOFRAN	16655-82-6		Not available now			
150	4 3-OH CARBOFRAN GLYCOSIDE	-		Not available now			
151	1 CARBOFURAN	1563-66-2	033-16321	Carbofuran Standard	A	200mg	
151	2 3-OH CARBOFURAN	16655-82-6		Not available now			
151	3 3-OH CARBOFRAN GLYCOSIDE	-		Not available now			
151	4 FURATHIOCARB	65907-30-4	062-03981	Furathiocarb Standard	A	200mg	
151	5 BENFURACARB	82560-54-1	023-09551	Benfuracarb Standard	A	200mg	
152	1 QUIZALOFOP-ETHYL	76578-14-8		Not available now			
152	2 QUIZALOFOP	76578-12-6		Not available now			
152	3 QUIZALOFOP-P	94051-08-8		Not available now			
152	4 QUIZALOFOP-P-ETHYL	100646-51-3		Not available now			
152	5 QUIZALOFOP-P-TEFURYL	119738-06-6		Not available now			
153	XYLAZINE	7361-61-7	240-00821	Xylazine Hydrochloride Standard	B	200mg	
154	KITASAMYCIN	1392-21-8	111-00361	Kitasamycin	C	5g	●
155	QUINALPHOS	13593-03-8	175-00441	Quinalphos Standard	A	200mg	
156	QUINOXYFEN	124495-18-7		Not available now			
157	QUINOCLAMINE	2797-51-5	013-15741	ACN Standard	A	200mg	
158	CHINOMETHIONAT	2439-01-2	039-08611	Chinomethionate Standard	A	200mg	
159	CAPTAN	133-06-2	034-08301	Captan Standard	A	200mg	
160	QUINCLORAC	84087-01-4	172-00451	Quinclorac Standard	A	200mg	
161	QUINTOZENE	82-68-8	167-09361	PCNB Standard	A	200mg	
162	CLAVULANIC ACID	61177-45-5	166-21791	Potassium Clavulanate Standard	B	100mg	
163	GLYCALPYRAMIDE	83-39-6	077-05171	Glycarbylamide Standard	B	200mg	
164	1 GLYPHOSATE	1071-83-6	071-03371	Glyphosate Standard	A	200mg	
164	2 GLYPHOSATE AMMONIUM	40465-66-5		Not available now			
164	3 GLYPHOSATE ISOPROPYLAMINE	38641-94-0		Not available now			
164	4 GLYPHOSATE TRIMESIUM	81591-81-3		Not available now			
164	5 GLYPHOSATE SODIUM	34494-03-6		Not available now			
165	1 GLUFOSINATE	53369-07-6		Not available now			
165	2 N-ACETYLGUFOSINATE	-		Not available now			
165	3 3-(METHYLPHOSPHONICO)PROPIONIC ACID	15090-23-0	134-11941	3-(Methylphosphinico)propionic Acid Standard	A	200mg	
165	4 GLUFOSINATE AMMONIUM	77182-82-2		Not available now			

No.*1	Compound name in Positive List System	CAS No.	Wako Catalog No.	Description	Grade*2	Pkg. Size	*3
166	KRESOXIM-METHYL	143390-89-0	118-00533	Kresoxim-methyl Standard	A	100mg	
167	1 CLETHODIM	99129-21-2	030-18651	Clethodim Standard	A	200mg	
167	2 CLETHODIM SULFOXIDE	-		Not available now			
167	3 CLETHODIM SULFONE	-		Not available now			
168	1 CLENBUTEROL	37148-27-9		Not available now			
168	2 CLENBUTEROL HYDROCHLORIDE	21898-19-1		Not available now			
169	CLOXACILLIN	61-72-3		Not available now			
170	CLOQUINTOCET-MEXYL	99607-70-2		Not available now			
171	CLOSANTEL	57808-65-8		Not available now			
172	CLODINAFOP ACID	114420-56-3		Not available now			
173	CLODINAFOP-PROPARGYL	105512-06-9		Not available now			
174	CROSTEBOL	1093-58-9	034-20141	Crostebol Standard	B	200mg	
175	CHLOZOLINATE	84332-86-5		Not available now			
176	1 CLOTHIANIDIN	210880-92-5	030-18891	Clothianidin Standard	A	200mg	
176	2 THIAMETHOXAM	153719-23-4	204-15651	Thiamethoxam Standard	A	200mg	
177	CLOPIDOL	2971-90-6	038-19931	Clopidol Standard	B	200mg	
178	CLOPYRALIDE	1702-17-6		Not available now			
179	CLOFENCET	129025-54-3		Not available now			
180	CLOFENTEZINE	74115-24-5	031-14541	Clofentezine Standard	A	200mg	
181	CLOPROP	101-10-0	033-19861	Cloprop Standard	A	200mg	
182	CLOMAZONE	81777-89-1		Not available now			
183	CHROMAFENOZIDE	143807-66-3	033-18141	Chromafenozide Standard	A	200mg	
184	CLOMEPROP	84496-56-0		Not available now			
185	CLORANSULAM-METHYL	147150-35-4		Not available now			
186	CHLORIDAZON	1698-60-8	163-18991	PAC Standard	A	200mg	
187	CHLORIMURON-ETHYL	90982-32-4	036-16671	Chlorimuron-ethyl Standard	A	200mg	
188	CHLORETHOXYPHOS	54593-83-8		Not available now			
189	CHLORSULFURON	64902-72-3	039-17141	Chlorsulfuron Standard	A	100mg	
190	CLORSULON	60200-06-8		Not available now			
191	CHLORTHAL-DIMETHYL	1861-32-1	202-07901	TCTP Standard	A	200mg	
192	1 CHLORDANE	57-74-9		Not available now			
192	2 cis-CHLORDANE	-	033-11821	cis-Chlordane Standard (100 µg/ml Toluene Solution)	A	1ml × 5	
192	3 trans-CHLORDANE	-	030-11831	trans-Chlordane Standard (100 µg/ml Toluene Solution)	A	1ml × 5	
192	4 OXYCHLORDANE	27304-13-8		Not available now			
193	CHLORPYRIFOS	2921-88-2	031-08811	Chlorpyrifos Standard	A	200mg	
194	CHLORPYRIFOS-METHYL	5598-13-0	031-09673	Chlorpyrifosmethyl Standard	A	200mg	
195	CHLORFENAPYR	122453-73-0	039-16921	Chlorfenapyr Standard	A	200mg	
196	CHLORFENSON	80-33-1	030-16451	CPCBS Standard	A	200mg	
197	1 (E)-CHLORFENVINPHOS	18708-86-6	038-08561	α -CVP Standard Solution (100ug/ml Cyclohexane solution)	A	1ml × 5	
197	2 (Z)-CHLORFENVINPHOS	18708-87-7	035-08571	β -CVP Standard Solution (0.01w/v% Cyclohexane solution)	A	1ml × 5	
198	CHLOROBUFAM	1967-16-4		Not available now			
199	CHLORFLUAZURON	71422-67-8	030-14393	Chlorfluzuron Standard	A	100mg	
200	CHLORPROPHAM	101-21-3	038-08321	Chloro IPC Standard	A	200mg	
201	CHLORHEXIDINE	55-56-1	035-20291	Chlorhexidine Standard	B	200mg	
202	CHLOROBENSIDE	103-17-3		Not available now			
203	CHLORMADINONE	302-22-7	034-19531	Chlormadinone Acetate Standard	B	200mg	
204	CHLORMEQUAT	999-81-5	033-14981	Chlormequat Standard	A	200mg	
205	CHLOROXYURON	1982-47-4	030-19751	Chloroxyuron Standard	A	200mg	
206	CHLOROTHALONIL	1897-45-6	200-06581	TPN Standard	A	200mg	
207	CHLOROBENZILATE	510-15-6	033-08273	Chlorobenzilate Standard	A	200mg	
208	CHLORONEB	2675-77-6	030-14491	Chloroneb Standard	A	200mg	
209	KETOPROFEN	22071-15-4	111-00741	Ketoprofen Standard	B	200mg	
210	GENTAMICIN	1405-41-0	079-02973	Gentamicin Sulfate	C	1g	●
211	COLISTIN	1264-72-8	033-10961	Colistin Sulfate	C	1g	●
212	ACETYLSOVALERYLTYSOSIN	-		Not available now			
213	1 TRENBOLONE ACETATE	10161-34-9	208-16271	Trenbolone Acetate Standard	B	200mg	
213	2 α -TRENBOLONE	80657-17-6		Not available now			
213	3 β -TRENBOLONE	10161-33-8	205-16281	β -Trenbolone Standard	B	200mg	
214	MELENGESTROL ACETATE	2919-66-6	132-15401	Melengestrol Acetate Standard	B	50mg	
215	SARAFLOXACIN	98105-99-8	195-14211	Sarafloxacin Hydrochloride Standard	B	200mg	
216	SALINOMYCIN	55721-31-8	190-08891	Salinomycin Sodium Salt	C	100mg	●
217	ALBENDAZOLE OXIDE	80983-34-2	164-22211	5-Propylsulfonyl-1H-benzimidazole-2-amine Hydrobromide Standard	B	100mg	
218	FENBUTATIN OXIDE	13356-08-6	067-02951	Fenbutatin Oxide Standard	A	200mg	
219	PROPYLENE OXIDE	75-56-9		Not available now			
220	CYAZOFAMID	120116-88-3	033-18881	Cyazofamid Standard	A	200mg	
221	CYANAZINE	21725-46-2	030-15091	Cyanazine Standard	A	200mg	
222	CYANAMIDE	420-04-2	032-19711	Cyanamide Standard	A	200mg	
223	CYANOPHOS	2636-26-2	039-08493	CYAP Standard	A	200mg	
224	1 DIAFENTHIURON	80060-09-9	042-26461	Diafenthiuron Standard	A	200mg	
224	2 DIAFENTHIURON-UREA	136337-67-2		Not available now			
224	3 DIAFENTHIURON-METHANEIMIDAMIDE	169337-81-9		Not available now			
225	DIAPERIDINE	5355-16-8	048-29621	Diaperidine Standard	B	200mg	
226	HYDROGEN CYANIDE	74-90-8	164-03612	Potassium Cyanide	C	25g	●
227	DIURON	330-54-1	049-23931	DCMU Standard	A	200mg	
228	DIOXATHION	78-34-2		Not available now			
229	DIOFENOLAN	63837-33-2		Not available now			
230	1 DICAMBA	1918-00-9	040-26261	Dicamba Standard	A	200mg	
230	2 DICAMBA ISOPROPYLAMINE	-		Not available now			
230	3 DICAMBA DIMETHYLAMINE	2300-66-5		Not available now			
230	4 DICAMBA POTASSIUM	10007-85-9		Not available now			
230	5 DICAMBA SODIUM	1982-69-0		Not available now			
231	DICLAZURIL	101831-37-2	048-28021	Diclazuril Standard	B	10mg	
232	CYCLANILIDE	113136-77-9		Not available now			
233	CYCLOATE	1134-23-2		Not available now			

No.*1	Compound name in Positive List System	CAS No.	Wako Catalog No.	Description	Grade*2	Pkg. Size	*3
234	DICLOXACILLIN	13412-64-1		Not available now			
235	CYCLOXYDIM	101205-02-1	038-17591	Cycloxydim Standard	A	200mg	
236	DICROTOPHOS	141-66-2		Not available now			
237	DICLOSULAM	145701-21-9		Not available now			
238	DICHLUFENTHION	97-17-6	056-03503	ECP Standard	A	200mg	
239	DICLOBUTRAZOL	75736-33-3		Not available now			
240	DICHOFLUANID	1085-98-9	041-21193	Dichlofluanid Standard	A	200mg	
241	CYCLOPROTHRIN	63935-38-6	035-14701	Cycloprothrin Standard	A	100mg	
242	DICHOLOBENIL	1194-65-6	048-25461	DBN Standard	A	200mg	
243	DICLOFOP	51338-27-3		Not available now			
244	DICHLORAN	99-30-9	036-08621	CNA Standard	A	200mg	
245	DICHLORPROP	120-36-5	049-29411	Dichlorprop Standard	A	200mg	
246-1	DICHLORVOS	62-73-7	046-16633	DDVP Standard	A	200mg	
246-2	NALED	300-76-5	028-06963	BRP Standard	A	200mg	
247	DICHLORMID	37764-25-3		Not available now			
248	DICHLONE	117-80-6	045-25611	Dichlone Standard	A	200mg	
249	DIQUAT	6385-62-2		Not available now			
250	1 DICOFOL	115-32-2		Not available now			
250	2 DICOFOL DEGRADATION PRODUCT	90-98-2	046-18453	DCBP Standard	A	200mg	
251	DICYCLANIL	112636-83-6		Not available now			
252	1 DISULFOTON	298-04-4	057-03153	Ethylthiomethone Standard	A	200mg	
252	2 DISULFOTON SULFONE	2497-06-5		Not available now			
253	DITHIANON	3347-22-6	044-18373	Dithianon Standard	A	200mg	
254	1 ZINEB	12122-67-7	266-00783	Zineb Standard	A	200mg	
254	2 ZIRAM	137-30-4	264-01301	Ziram Standard	A	200mg	
254	3 THIRAM	137-26-8	204-11371	Thiuram Standard	A	200mg	
254	4 NICKEL BIS(DIMETHYLDITHIOCARBAMATE)			Not available now			
254	5 FERBAM	14484-64-1	061-03571	Ferbam Standard	A	200mg	
254	6 PROPINEB	12071-83-9		Not available now			
254	7 POLYCARBAMATE	64440-88-6		Not available now			
254	8 MANZEB	8018-01-7	133-06803	Manzeb Standard	A	200mg	
254	9 MANEB	12427-38-2	136-06533	Maneb Standard	A	200mg	
254	10 METIRAM	9006-42-2	131-13151	Metiram Standard	A	200mg	
255	DITHIOPYR	97886-45-8	042-25121	Dithiopyr Standard	A	200mg	
256	DINITOLMIDE	148-01-6	049-29531	Dinitolmide Standard	B	200mg	
257	CINIDON-ETHYL	142891-20-1		Not available now			
258	1 DINOCAP	39300-45-3	042-26601	DPC Standard	A	200mg	
258	2 2,4-DINITRO-6-OCTYLPHENOL	-		Not available now			
258	3 2,6-DINITRO-4-OCTYLPHENOL	-		Not available now			
259	CINOSULFURON	94593-91-6		Not available now			
260	DINOSEB	88-85-7	043-25151	DNBP Standard	A	200mg	
261	DINOTEFURAN	165252-72-0	041-29731	Dinotefuran Standard	A	100mg	
262	DINOTERB	1420-07-1		Not available now			
263	1 CYHALOTHRIN	68085-85-8	033-15101	Cyhalothrin Standard	A	200mg	
263	2 rambda-CYHALOTHRIN	91465-08-6		Not available now			
264-1	DIHYDROSTREPTOMYCIN	5490-27-7		Not available now			
264-2	STREPTOMYCIN	3810-74-0	192-14341	Streptomycin Sulfate	C	5g	●
265	DIPHENAMID	957-51-7	041-17021	Diphenamid Standard	A	200mg	
266	BIPHENYL	92-52-4	026-12731	Biphenyl Standard	A	200mg	
267	DIPHENYLAMINE	122-39-4	041-25211	Diphenylamine Standard	A	200mg	
268	DIFENOCONAZOLE	119446-68-3	042-25241	Difenoconazole Standard	A	200mg	
269	1 DIFENZOQUAT	-		Not available now			
269	2 DIFENZOQUAT METHYL SULFATE	43222-48-6	045-25851	Difenzoquat Methyl Sulfate Standard	A	200mg	
270	DIBUTYL SUCCINATE	141-03-7	044-07062	Dibutyl Succinate	C	25g	●
271	DIBUTYLHYDROXYTOLUENE	128-37-0	047-29451	Dibutylhydroxytoluene Standard	B	200mg	
272	CYFLUTHRIN	68359-37-5	033-14361	Cyfluthrin Standard	A	200mg	
273	CYFLUFENAMID	180409-60-3	036-19231	Cyflufenamid Standard	A	200mg	
274	DIFLUFENICAN	83164-33-4	044-28121	Diflufenican Standard	A	200mg	
275	DIFLUFENZOPYR	109293-97-2	041-30221	Diflufenzopyr Standard	A	200mg	
276	DIFLUBENZURON	35367-38-5	049-23551	Diflubenzuron Standard	A	200mg	
277	DIFLOXACIN	98106-17-3	049-30021	Difloxacin Standard	B	200mg	
278	CYPROCONAZOLE	94361-06-5	032-16891	Cyproconazole Standard	A	200mg	
279	CYPRODINIL	121552-61-2	031-17721	Cyprodinil Standard	A	200mg	
280	1 CYPERMETHRIN	52315-07-8	039-15441	Cypermethrin Standard	A	200mg	
280	2 zeta-CYPERMETHRIN	52315-07-8		Not available now			
281	GIBBERELLIN	77-06-5	078-05081	Gibberellin A3 Standard	A	200mg	
282	ALIPHATIC ALCOHOL ETHOXYLATES	-		Not available now			
283	SIMAZINE	122-34-9	031-08311	CAT Standard	A	200mg	
284	DIMINAZENE	908-54-3	048-29501	Diminazene Diacetate Standard	B	200mg	
285	SIMECONAZOLE	149508-90-7	196-12781	Simeconazole Standard	A	200mg	
286	DIMETHAMETRYN	22936-75-0	048-28261	Dimethametryn Standard	A	200mg	
287	DIMETHIPIN	55290-64-7	046-25521	Dimethipin Standard	A	200mg	
288	DIMETHIRIMOL	5221-53-4	040-26901	Dimethirimol Standard	A	200mg	
289	1 DIMETHENAMID	87674-68-8	043-26751	Dimethenamid Standard	A	200mg	
289	2 DIMETHENAMID-P	163515-14-8		Not available now			
290	DIMETHOATE	60-51-5	045-15841	Dimethoate Standard	A	200mg	
291	1 DIMETHOMORPH	110488-70-5	049-28671	Dimetomorph Standard	A	200mg	
291	2 (E)-DIMETHOMORPH	-		Not available now			
291	3 (Z)-DIMETHOMORPH	-		Not available now			
292	DIMEPIPERATE	61432-55-1	047-25171	Dimepiperate Standard	A	200mg	
293	CYMOXANIL	57966-95-7	036-16791	Cymoxanil Standard	A	200mg	
294	BROMIDE (METHYL BROMIDE)	-	024-15331	Bromide Ion Standard Solution (Br - 1000)	C	50ml	
295	JOSAMYCIN	16846-24-5					
296	SILAFLUOFEN	105024-66-6	193-11191	Silafluofen Standard	A	200mg	
297	CYROMAZINE	66215-27-8	035-16261	Cyromazine Standard	A	200mg	

No.*1		Compound name in Positive List System	CAS No.	Wako Catalog No.	Description	Grade*2	Pkg. Size	*3
298	1	SPINOSAD	168316-95-8		Not available now			
298	2	SPINSYN A	-		Not available now			
298	3	SPINSYN D	131929-63-0		Not available now			
299	1	SPIRAMYCIN	8025-81-8		Not available now			
299	2	SPIRAMYCIN I	24916-50-5	197-11971	Spiramycin I Standard	B	10mg	
299	3	NEOSPIRAMYCIN I	70253-62-2	147-07061	Neospiramycin I Standard	B	10mg	
300		SPIROXAMINE	118134-30-8		Not available now			
301		SPIRODICLOFEN	148477-71-8	199-14231	Spirodiclofen Standard	A	200mg	
302		SPECTINOMYCIN	21736-83-4	191-11533	Spectinomycin Dihydrochloride Pentahydrate	C	1g	●
303		SULFAETHOXYPYRIDAZINE	963-14-4		Not available now			
304		SULFAQUINOXALINE	59-40-5	194-11481	Sulfaquinoxaline Sodium Salt Standard	B	200mg	
305		SULFAGUANIDINE	6190-55-2					
306		SULFACHLORPYRIDAZINE	80-32-0	194-14661	Sulfachloropyridazine Standard	B	200mg	
307		SULFADIAZINE	68-35-9	198-11381	Sulfadiazine Standard	B	200mg	
308		SULFADIMIDINE	57-68-1	198-11141	Sulfadimidine Standard	B	200mg	
309		SULFADIMETHOXINE	122-11-2	190-11101	Sulfadimethoxine Standard	B	200mg	
310		SULFACETAMIDE	144-80-9	192-14581	Sulfacetamid Standard	B	200mg	
311		SULFATHIAZOLE	72-14-0	197-14651	Sulfathiazole Standard	B	200mg	
312		SULFADOXINE	2247-57-6	192-14221	Sulfadoxine Standard	B	200mg	
313		SULFATROXAZOLE	23256-23-7		Not available now			
314		SULFANITRAN	122-16-7		Not available now			
315		SULFANILAMIDE	63-74-1	198-14061	Sulfanilamide Standard	B	200mg	
316		SULFAPYRIDINE	144-83-2	199-14471	Sulfapyridine Standard	B	200mg	
317		SULFABROMOMETHAZINE SODIUM	116-45-0		Not available now			
318		SULFABENZAMIDE	127-71-9		Not available now			
319		SULFAMETHOXAZOLE	723-46-6	191-11131	Sulfamethoxazole Standard	B	200mg	
320		SULFAMETHOXYPYRIDAZINE	80-35-3	190-14641	Sulfamethoxypridazine Standard	B	200mg	
321		SULFAMERAZINE	127-79-7	192-11301	Sulfamerazine Standard	B	200mg	
322		SULFAMOILDAPSONE	-		Not available now			
323		SULFAMONOMETHOXINE	1220-83-3	196-11321	Sulfamonomethoxine Standard	B	200mg	
324		SULFISOZOLE	73247-57-1	195-14071	Sulfisozole Sodium Standard	B	200mg	
325		SULFENTRAZONE	122836-35-5	193-14751	Sulfentrazone Standard	A	100mg	
326		SULPROFOS	35400-43-2	197-08921	Sulprofos Standard Solution (100 µg/ml Toluene Solution)	A	1mL X 5A	
327		SULFOSULFURON	141776-32-1		Not available now			
328		SEDECAMYCIN	23477-98-7		Not available now			
329	1	SETHOXYDIM	74051-80-2	191-10651	Sethoxydim Standard	A	50mg	
329	2	5-OH-MSO2	106613-06-3	198-10661	Sethoxydim 5-OH-M-SO2 Standard Solution (100 µg/ml Dichloromethane Solution)	A	1ml X 5A	
329	3	MSO	-		Not available now			
329	4	MSO2	-		Not available now			
329	5	M2S	-		Not available now			
329	6	M2SO	-		Not available now			
329	7	M2SO2	-		Not available now			
330		CEFACETRILE	10206-21-0		Not available now			
331		CEFZOLIN	25953-19-9		Not available now			
332		CEFAPIRIN	24356-60-3		Not available now			
333		CEFALEXIN	15686-71-2	036-11051	Cephalexin	C	5g	●
334		CEFALONIUM	5575-21-3	032-19691	Cephalonium Dihydrate Standard	B	200mg	
335		CEFOPERAZONE	62893-19-0	035-19941	Cefoperazone Sodium Salt Standard	B	200mg	
336		CEFQUINOME	84957-30-2		Not available now			
337	1	CEFTIOFUR	80370-57-6		Not available now			
337	2	DESFUROYLCEFTIOFUR	-		Not available now			
338		CEFUROXIME	56238-63-2		Not available now			
339		ZERANOL	26538-44-3	262-01461	Zeranol Standard	B	200mg	
340		SEMDURAMICIN	113378-31-7		Not available now			
341		ZOXAMIDE	156052-68-5		Not available now			
342		TERBACIL	5902-51-2	209-15341	Terbacil Standard	A	200mg	
343		DIAZINON	333-41-5	045-16223	Diazinon Standard	A	200mg	
344		DIALATE	2303-16-4		Not available now			
345		TYLOSIN	1401-69-0	323-33991	Tylosin	C	5g	●
346		DANOFLOXACIN	112398-08-0	043-29551	Danofloxacin Mesylate Standard	B	200mg	
347		THIACLOPRID	111988-49-9					
348		TIADINIL	223580-51-6	204-16251	Tiadinil Standard	A	100mg	
349		THIAZOPYR	117718-60-2	204-16991	Thiazopyr Standard	A	100mg	
350	1	THIABENDAZOLE	148-79-8	204-13211	Thiabendazole Standard	A	200mg	
350	2	5-HYDROXY THIABENDAZOLE	948-71-0	080-08521	5-Hydroxythiabendazole Standard	A	20mg	
351		TIAMULIN	55297-95-5	201-16881	Tiamulin Fumarate Standard	B	200mg	
352		CLOTHIANIDIN	153719-23-4	204-15651	Thiamethoxam Standard	A	200mg	
353		THIAMPHENICOL	15318-45-3	203-13921	Thiamphenicol Standard	B	200mg	
354		TIOPRONIN	1953-02-2	204-16871	Tiopronin Standard	B	200mg	
355		THIOBENCARB	28249-77-6	021-06953	Benthiocarb Standard	A	200mg	
356		THIOMETON	640-15-3	207-13181	Thiometon Standard Solution (1mg/ml Hexane Solution)	A	1ml X 5A	
357		THIDIAZURON	51707-55-2	203-16221	Thidiazuron Standard	A	200mg	
358		THIFENSULFURON	79277-67-1		Not available now			
359		THIFENSULFURON-METHYL	79277-27-3	207-16741	Thifensulfuron-methyl Standard	A	200mg	
360		TILMICOSIN	108050-54-0	206-16331	Tilmicosin Standard	B	200mg	
361-1		DIELDRIN	60-57-1		Not available now			
361-2		ADLRIN	309-00-2		Not available now			
362		DEXAMETHASONE	50-02-2	045-29491	Dexamethasone Standard	B	200mg	
363		TECNAZENE	117-18-0	209-16441	Tecnazene Standard	A	200mg	
364		DECOQUINATE	18507-89-6	048-30351	Decoquinat Standard	B	100mg	
365		DESTOMYCIN A	14918-35-5		Not available now			
366		DESMEDIPHAM	13684-56-5	047-28111	Desmedipham Standard	A	200mg	
367		TETRACHLORVINPHOS	22248-79-9	033-15081	CVMP Standard	A	200mg	
368		TETRACONAZOLE	112281-77-3	203-14881	Tetraconazole Standard	A	200mg	

No.*1	Compound name in Positive List System	CAS No.	Wako Catalog No.	Description	Grade*2	Pkg. Size	*3	
369	TETRADIFON	116-29-0	208-16651	Tetradifon Standard	A	200mg		
370	TEBUCONAZOLE	107534-96-3	203-13801	Tebuconazole Standard	A	200mg		
371	TEBTHIURON	34014-18-1		Not available now				
372	TEBUFENOZIDE	112410-23-8	206-13411	Tebufenozide Standard	A	200mg		
373	TEBUFENPYRAD	119168-77-3	200-13291	Tebufenpyrad Standard	A	200mg		
374	1	TEPRALOXIDIM	149979-41-9	204-16511	Tepraloxidim Standard	A	200mg	
374	2	DMP	-	206-16691	Tepraloxidim Metabolite, DMP Standard	A	200mg	
374	3	OH-DMP	-	209-16701	Tepraloxidim Metabolite, OH-DMP Standard	A	200mg	
374	4	5-OH-DP	-	209-16681	Tepraloxidim Metabolite, 5-OH-DP Standard	A	50mg	
375	TEFLUTHRIN	79538-32-2	204-13191	Tefluthrin Standard	A	200mg		
376	TEFLUBENZURON	83121-18-0	208-12371	Teflubenzuron Standard	A	200mg		
377	DEMETON-S-METHYL	919-86-8		Not available now				
378	TEMEPHOS	3383-96-8		Not available now				
379-1	DELTAMETHRIN	52918-63-5	047-23471	Deltamethrin Standard	A	200mg		
379-2	TRALOMETHRIN	66841-25-6	209-12661	Tralomethrin Standard	A	100mg		
380	TERDECAMYCIN	113167-61-6		Not available now				
381	TERBTRYN	886-50-0	201-16641	Terbutryn Standard	A	200mg		
382	TERBUFOS	13071-79-9	200-12691	Terbufos Standard	A	200mg		
383	DOXYCYCLINE	564-25-0		Not available now				
384	DODINE	2439-10-3	047-25291	Dodine Standard	A	200mg		
385	DORAMECTIN	117704-25-3		Not available now				
386	TRALKOXIDIM	87820-88-0		Not available now				
387	TRIADIMENOL	55219-65-3	208-08503	Triadimenol Standard	A	200mg		
388	TRIADIMEFON	43121-43-3	205-08493	Triadimefon Standard	A	200mg		
389	TRIASULFURON	82097-50-5		Not available now				
390	TRIAZOPHOS	24017-47-8	203-13161	Triazophos Standard	A	100mg		
391	TRIALATE	2303-17-5	208-16531	Tri-allate Standard	A	200mg		
392	1	TRICLABENDAZOLE	68786-66-3	207-14301	Triclabendazole Standard	B	200mg	
392	2	5-CHLORO-6-(2,3-DICHLOROPHENOXY)-BENZIMIDAZOLE-2-ONE	-	200-14891	Triclabendazole Oxon Standard	B	100mg	
393	TRICLOPYR	55335-06-3	202-12911	Triclopyr Standard	A	200mg		
394	TRICHLORFON	52-68-6	045-16681	DEP Standard	A	200mg		
395	TRICHLOROACETIC ACID SODIUM	650-51-1	201-16261	TCA-sodium Standard	A	200mg		
396	TRITICONAZOLE	131983-72-7		Not available now				
397	TRIDEMORPH	81412-43-3		Not available now				
398	1	TRINEXAPAC-ETHYL	95266-40-3	207-15401	Trinexapac-ethyl Standard	A	200mg	
398	2	TRINEXAPAC	143294-89-7	206-15591	Trinexapac Standard	A	200mg	
399	TRIBFOS	78-48-8	201-16521	Tribufos Standard	A	200mg		
400	TRIFLUSULFURON-METHYL	126535-15-7	204-16751	Triflusaluron-methyl	A	200mg		
401	1	TRIFLUMIZOLE	68694-11-1	202-10191	Triflumizole Standard	A	200mg	
401	2	4-CHLORO-alpha,alpha,alpha-TRIFLUORO-N-(1-AMINO-2-PROPOXYETHYLIDENE)-o-TOLUIDINE	-	205-10181	Triflumizole Metabolite Standard	A	200mg	
402	TRIFLUMURON	64628-44-0		Not available now				
403	TRIFLURALIN	1582-09-8	202-06781	Trifluralin Standard	A	200mg		
404	TRIFLOXYSTROBIN	141517-21-7		Not available now				
405	TOLYFLOXYSULFURON	199119-58-9		Not available now				
406	TRIBROMSALAN	87-10-5		Not available now				
407	TRIBENURON-METHYL	101200-48-0	208-14191	Tribenuron-methyl Standard	A	200mg		
408	TRIPELENNAMINE	154-69-8		Not available now				
409	TRIFORINE	26644-46-2	202-08861	Triforine Standard	A	200mg		
411	TRIMETHOPRIM	738-70-5	206-13911	Trimethoprim Standard	B	200mg		
412	TOLYLFLUANID	731-27-1	200-13171	Tolyfluanid Standard	A	200mg		
413	TOLTRAZURIL	69004-03-1	205-16921	Toltrazuril Standard	B	200mg		
414	TOLFENAMIC ACID	13710-19-5	208-16911	Tolfenamic Acid Standard	B	200mg		
415	1	NICARBAZIN	330-95-0	146-07151	Nicarbazin Standard	B	200mg	
415	2	N,N'-BIS(4-NITROPHENYL)UREA	587-90-6		Not available now			
416	NANAFROCIN	52934-83-5		Not available now				
417	NAFCILLIN	147-52-4		Not available now				
418	NAPTALAM	132-66-1	140-08271	Naptalam Standard	A	200mg		
419	NAPHTHALOPHOS	1491-41-4		Not available now				
420	NAPROANILIDE	52570-16-8	148-08211	Naproanilide Standard	A	100mg		
421	NAPROPAMIDE	15299-99-7	148-05891	Napropamide Standard	A	200mg		
422	NARASIN	55134-13-9		Not available now				
423	NALIDIXIC ACID	389-08-2	144-06611	Nalidixic Acid Standard	B	200mg		
424	ETHYLENE DICHLORIDE	107-06-2		Not available now				
425	NICOSULFURON	111991-09-4	143-08401	Nicosulfuron Standard	A	200mg		
426	NICOTINE	54-11-5	147-03921	Nicotine Standard Solution (0.1g/ml(10 ± 0.5w/v%) in 16w/v% H2SO4)	A	5ml		
427	ETHYLENE DIBROMIDE	106-93-4	054-04121	1,2-Dibromoethane Standard Solution(1mg/ml in Hexane)	A	1ml × 5		
428	NITARSONE	98-72-6		Not available now				
429	1	NITENPYRAM	150824-47-8	142-06771	Nitenpyram Standard	A	200mg	
429	2	CPF	-	037-17201	CPF Standard	A	200mg	
429	3	CPMA	-	031-19421	CPMA Standard	A	100mg	
429	4	CPMF	-	034-19271	CPMF Standard	A	200mg	
430	NITRAPYRIN	1929-82-4	141-08201	Nitrapyrin Standard	A	200mg		
431	NITROXYNIL	1689-89-0	142-08231	Nitroxynil Standard	B	200mg		
432	NITROTHAL-ISOPROPYL	10552-74-6		Not available now				
433	SODIUM NIFURSTYRENATE	54992-23-3	146-08251	Sodium Nifurstyrenate Standard	B	200mg		
434	NEOMYCIN	1404-04-2	067-01731	Fradiomycin Sulfate	C	5g	●	
435	NEQUINATE	13997-19-8	149-08501	Nequinat Standard	B	200mg		
436	NOSIHEPTIDE	56377-79-8		Not available now				
437	NOVALURON	116714-46-6		Not available now				
438	NOVOBIOCIN	1476-53-5	142-06673	Novobiocin Sodium	C	1g	●	

No.*1	Compound name in Positive List System	CAS No.	Wako Catalog No.	Description	Grade*2	Pkg. Size	*3
439	NORGESTOMET	25092-41-5		Not available now			
440	NORFLAZON	27314-13-2		Not available now			
441	NORFLOXACIN	70458-96-7	149-08241	Norfloxacin Standard	B	200mg	
442	VIRGINIAMYCIN	11006-76-1		Not available now			
443	BARBAN	101-27-9		Not available now			
444	BUQUINOLATE	5486-03-3		Not available now			
445	BAQUILOPRIM	102280-35-3		Not available now			
446	PACLOBUTRAZOL	76738-62-0	163-17391	Paclobutrazol Standard	A	200mg	
447	BACITRACIN	1405-87-4	022-07701	Bacitracin	C	5g	●
448 1	VAMIDOTHION	2275-23-2		Not available now			
448 2	VAMIDOTHION SULFOXIDE	-		Not available now			
448 3	VAMIDOTHION SULFONE	-		Not available now			
449	PARAQUAT	1910-42-5	160-08871	Paraquat Standard	A	100mg	
450	PARATHION	56-38-2	168-08573	Parathion Standard	A	200mg	
451	PARATHION-METHYL	298-00-0	131-06061	Methylparathion Standard	A	200mg	
452	VALIDAMYCIN	37248-47-8	220-01321	Validoxylamine A	C	20mg	●
453	VALNEMULIN	121584-18-7		Not available now			
454	HALFENPROX	111872-58-3	088-07101	Halfenprox Standard	A	200mg	
455	PARBENDAZOLE	14255-87-9		Not available now			
456	HALOXYFOP	69806-34-4		Not available now			
457	HALOXON	321-55-1		Not available now			
458	HALOSULFURON METHYL	100784-20-1	089-07251	Halosulfuron-methyl Standard	A	200mg	
459	HALOFUGINONE	55837-20-2		Not available now			
460	PAROMOMYCIN	1263-89-4		Not available now			
461	BIALAPHOS	71048-99-2	026-15411	Bialaphos Sodium Salt	C	100mg	●
462	BIORESMETHRIN	28434-01-7	021-12801	Bioresmethrin Standard	A	200mg	
463	PICLORAM	1918-02-1	165-15391	Picloram Standard	A	200mg	
464	BICOZAMYCIN	38129-37-2		Not available now			
465	PICOLINAFEN	137641-05-5	169-22901	Picolinafen Standard	A	200mg	
466	BITHIONOL	97-18-7	028-15351	Bithionol Standard	B	200mg	
467	BITERTANOL	55179-31-2	024-10233	Bitertanol Standard	A	200mg	
468	HYDRAMETHYLNON	67485-29-4		Not available now			
469	COPPER (HYDOROXYNONYLPHENYL) SULPHONATE	-		Not available now			
470	HYDROCORTISONE	50-23-7	086-08241	Hydrocortisone Standard	B	200mg	
471	PINOXADEN	243973-20-8		Not available now			
472 1	BIFENAZATE	149877-41-8	026-14671	Bifenazate Standard	A	200mg	
472 2	ISOPROPYL 2-(4-METHOXYBIPHENYL)-3-DIAZENYLFORMATE	-		Not available now			
472 3	4-HYDROXYBIPHENYL	92-69-3	086-08501	4-Hydroxybiphenyl Standard	A	200mg	
472 4	4-SULPHITEBIPHENYL	-		Not available now			
473	BIFENTHRIN	82657-04-3	025-12701	Bifenthrin Standard	A	200mg	
474	PIPERAZINE	110-85-0	162-08912	Piperazine	C	25g	●
475	PIPERONYL BUTOXIDE	1951-03-6	162-17861	Piperonyl Butoxide Standard	A	200mg	
476	PIPEROPHOS	24151-93-7	160-11223	Piperophos Standard	A	200mg	
477	HYMEXAZOL	10004-44-1		Not available now			
478	PYMETROZINE	123312-89-0	163-19971	Pymetrozine Standard	A	200mg	
479	PYRACLOSTROBIN	175013-18-0	163-22921	Pyraclostrobin Standard	A	200mg	
480	PYRACLOFOS	77458-01-6	160-17801	Pyraclofos Standard	A	200mg	
481	PYRAZOSULFURON-ETHYL	93697-74-6	168-17841	Pyrazosulfuron-ethyl Standard	A	200mg	
482	PYRAZOPHOS	13457-18-6		Not available now			
483	PYRAZOLYNATE	58011-68-0	165-17091	Pyrazolate Standard	A	200mg	
484	PYRAFLUFEN-ETHYL	129630-19-9	169-19831	Pyraflufen-ethyl Standard	A	200mg	
485	PYRANTEL TARTRATE	22204-24-6	167-18391	Pyrantel Pamoate Standard	B	200mg	
486	PYRIDAFENTHION	119-12-0	161-10913	Pyridaphenthion Standard	A	200mg	
487	PYRIDABEN	96489-71-3	162-16381	Pyridaben Standard	A	200mg	
488	PYRITHIOBAC-SODIUM	123343-16-8	161-23061	Pyrithiobac-sodium Standard	A	100mg	
489 1	PYRIDATE	55512-33-9	163-17771	Pyridate Standard	A	200mg	
489 2	PYRIDATE-HYDROXY	40020-01-7	166-17761	Pyridate Metabolite Standard	A	100mg	
489 3	PYRIDATE-HYDROXY CONJUGATE	-		Not available now			
490	PYRIFTALID	135186-78-6		Not available now			
491	PYRIPROXYFEN	95737-68-1	163-18751	Pyriproxyfen Standard	A	200mg	
492	PIRIMICARB	23103-98-2	164-14803	Pirimicarb Standard	A	200mg	
493	PYRIMIDIFEN	105779-78-0	168-18701	Pyrimidifen Standard	A	200mg	
494	PIRIMIPHOS-METHYL	29232-93-7		Not available now			
495	PYRIMETHANIL	53112-28-0	168-21751	Pyrimethanil Standard	A	200mg	
496	PYRIMETHAMINE	58-14-0	163-18631	Pyrimethamine Standard	B	200mg	
497 1	PYRETHRINS	8003-34-7	161-15991	Pyrethrins Standard, 50 - 60% in isoparaffin	A	200mg	
497 2	PYRETHRIN I	121-21-1		Not available now			
497 3	PYRETHRIN II	121-29-9		Not available now			
498	PYROQUILON	57369-32-1	164-18041	Pyroquilon Standard	A	200mg	
499	VINCLOZOLIN	50471-44-8	220-00743	Vinclozolin Standard	A	200mg	
500	PINDONE	83-26-1		Not available now			
501	FAMPHUR	52-85-7		Not available now			
502	FAMOXADONE	131807-57-3	068-04201	Famoxadone Standard	A	200mg	
503	FIPRONIL	120068-37-3	062-04101	Fipronil Standard	A	200mg	
504	FENAMIPHOS	22224-92-6	066-03521	Fenamiphos Standard	A	100mg	
505	FENARIMOL	60168-88-9		Not available now			
506	FENITROTHION	122-14-5	132-05533	MEP Standard	A	200mg	
507 1	FENOXAPROP-ETHYL	66441-23-4	062-03621	Fenoxaprop-ethyl Standard	A	200mg	
507 2	FENOXAPROP-P-ETHYL	71283-80-2		Not available now			
507 3	FENOXAPROP-ETHYL	95617-09-7		Not available now			
507 4	FENOXAPROP-P	113158-40-0		Not available now			
507 5	FENOXAPROP-ETHYL	-		Not available now			
508	FENOXYCARB	79127-80-3	068-02981	Fenoxycarb Standard	A	200mg	

No.*1	Compound name in Positive List System	CAS No.	Wako Catalog No.	Description	Grade*2	Pkg. Size	*3
509	PHENOXYMETHYLPENICILLIN	87-08-1		Not available now			
510	FENOTHIOCARB	62850-32-2	067-04891	Fenothiocarb Standard	A	200mg	
511	PHENOTHRIN	26002-80-2	163-22661	Phenothrin Standard (mixture of isomers)	A	200mg	
512	FENOBUCARB	3766-81-2	023-06773	BPMC Standard	A	200mg	
513	1 (Z)-FERIMZONE	89269-64-7	066-04121	(Z)-Ferimzone Standard	A	200mg	
513	2 (E)-FERIMZONE	-	063-04131	(E)-Ferimzone Standard	A	200mg	
514	1 FENAMIDONE	161326-34-7		Not available now			
514	2 5-METHYL-5-PHENYLIMIDAZOLIDINE-2,4-DIONE	6843-49-8	135-15371	MPID Standard	A	200mg	
515	FENCHLORPHOS	299-84-3	068-03581	Fenchlorphos Standard	A	200mg	
516	FENTHION	55-38-9	132-06633	MPP Standard	A	200mg	
517	1 FENTIN	-		Not available now			
517	2 TRIPHENYLTIN HYDROXIDE	76-87-9	208-13351	Triphenyltin(IV) Hydroxide Standard	A	200mg	
517	3 TRIPHENYLTIN ACETATE	900-95-8	204-13331	Triphenyltin(IV) Acetate Standard	A	200mg	
517	4 FENTIN CHLORIDE	639-58-7	201-13341	Triphenyltin(IV) Chloride Standard	A	200mg	
518	PHENTHOATE	2597-03-7	160-09133	PAP Standard	A	200mg	
519	FENVALERATE	51630-58-1	060-03281	Fenvalerate Standard	A	200mg	
519	ESFENVALERATE	66230-04-4		Not available now			
520	1 (E)-FENPYROXIMATE	134098-61-6	067-03291	Fenpyroximate Standard	A	200mg	
520	2 (Z)-FENPYROXIMATE	149054-53-5	067-05011	(Z)-Fenpyroximate Standard	A	50mg	
521	FENBONAZOLE	114369-43-6	068-05041	Fenbuconazole Standard	A	100mg	
522	FENPROSTALENE	69381-94-8		Not available now			
523	FENPROPATHRIN	39515-41-8	062-03501	Fenpropathrin Standard	A	200mg	
524	FENPROPIMORPH	67564-91-4	066-04981	Fenpropimorph Standard	A	200mg	
525	FENHEXAMID	126833-17-8	069-04111	Fenhexamid Standard	A	200mg	
526	PHENMEDIPHAM	13684-63-4		Not available now			
527	DELETED			Not available now			
528	FTHALIDE	27355-22-2	063-01593	Fthalide Standard	A	200mg	
529	BUTAFENACIL	134605-64-4		Not available now			
530	BUTAMIFOS	36335-67-8	020-10931	Butamifos Standard	A	200mg	
531	BUTYLHYDROXYANISOL	25013-16-5	020-15311	Butylhydroxyanisole Standard	B	200mg	
532	SULFURYL FLUORIDE	2699-79-8		Not available now			
533	BUTROXYDIM	138164-12-2		Not available now			
534	BUPIRIMATE	41483-43-6		Not available now			
535	BUPROFEZIN	69327-76-0	024-08263	Buprofezin Standard	A	200mg	
536	OXPOCONAZOLE-FUMARATE	-	157-02361	Oxpoconazole Fumarate Standard	A	200mg	
537	FLAZASULFURON	104040-78-0	064-03321	Flazasulfuron Standard	A	100mg	
538	PRAZQUANTEL	55268-74-1	160-22931	Praziquantel Standard	B	200mg	
539	1 CARBOFURAN	65907-30-4	062-03981	Furathiocarb Standard	A	200mg	
539	2 CARBOSULFAN	1563-66-2	033-16321	Carbofuran Standard	A	200mg	
539	3 3-OH CARBOSULFAN	16655-82-6		Not available now			
539	4 3-OH CARBOSULFAN GLYCOSIDE	-		Not available now			
540	FLAVOPHOSPHOLIPOL	11015-37-5		Not available now			
541	FLAMPROP-METHYL	37924-13-3	063-04991	Fiamprop-methyl Standard	A	100mg	
542	PRIFINIUM	4630-95-9		Not available now			
543	PRIMISULFURON-METHYL	86209-51-0		Not available now			
544	FURILAZOLE	121776-33-8		Not available now			
545	FLUACRYPYRIM	178813-81-5	066-04481	Fluacrypyrim Standard	A	200mg	
546	FLUAZINAM	79622-59-6	068-02861	Fluazinam Standard	A	200mg	
547	1 FLUAZIFOP	69335-91-7	067-03453	Fluazifop Standard	A	100mg	
547	2 FLUAZIFOP-BUTYL	69806-50-4	064-03441	Fluazifop-butyl Standard	A	200mg	
547	3 FLUAZIFOP-P	83066-88-0		Not available now			
547	4 FLUAZIFOP-P-BUTYL	79241-46-6		Not available now			
548	FLUAZURON	86811-58-7	063-04871	Fluazuron Standard	A	200mg	
549	FLUOMETURON	2164-17-2		Not available now			
550	FLUOROIMIDE	41205-21-4	063-03531	Fluoroimide Standard	A	200mg	
551	FLUCARBAZONE SODIUM	181274-17-9		Not available now			
552	FLUQUINCONAZOLE	136426-54-5		Not available now			
553	FLUDIOXONIL	131341-86-1	064-03681	Fludioxonil Standard	A	200mg	
554	FLUCYTHRINATE	70124-77-5	069-02911	Flucythrinate Standard	A	200mg	
555	FLUSILAZOLE	85509-19-9	065-03591	Flusilazole Standard	A	100mg	
556	FLUSULFAMIDE	106917-52-6	062-03361	Flusulfamide Standard	A	200mg	
557	FLUTHIACET-METHYL	117337-19-6	062-04461	Fluthiacet-methyl Standard	A	200mg	
558	FLUTOLANIL	66332-96-5	068-02023	Flutolanil Standard	A	200mg	
559	FLUTORIAFOL	76674-21-0		Not available now			
560	FLUNIXIN	42461-84-7		Not available now			
561	FLUVALINATE	69409-94-5	061-02471	Fluvalinate Standard	A	200mg	
562	FLUFENACET	142459-58-3		Not available now			
563	FLUFENOXURON	101463-69-8	067-03551	Flufenoxuron Standard	A	200mg	
564	FLUFENPYR-ETHYL	188489-07-8	068-04681	Flufenpyr-ethyl Standard	A	100mg	
565	FLUPROPANATE	756-09-2		Not available now			
566	FLUBENDAZOLE	31430-15-6	068-03601	Fluvendazole Standard	B	200mg	
567	FLUMIOXAZIN	103361-09-7	060-04141	Flumioxazin Standard	A	200mg	
568	FLUMICLORAC PENTYL	87546-18-7	067-04771	Flumiclorac-pentyl Standard	A	100mg	
569	FLUMEQUINE	42835-25-6	069-04971	Flumequine Standard	B	200mg	
570	FLUMETSULAM	98967-40-9		Not available now			
571	FLUMETHRIN	69770-45-2		Not available now			
572	FLURIDONE	59756-60-4	062-04601	Fluridone Standard	A	200mg	
573	FLUROXYPYR	69377-81-7		Not available now			
574	PREDNISOLONE	50-24-8	162-21911	Prednisolone Standard	B	200mg	
575	1 PROCHLORAZ	67747-09-5	166-17901	Prochloraz Standard	A	200mg	
575	2 N-FORMYL-N-1-PROPYL-N-[2-(2,4,6-TRICHLOROPHENOXY)ETHYL]UREA	-		Not available now			
575	3 N-PROPYL-N-[2-(2,4,6-TRICHLOROPHENOXY)ETHYL]UREA	-		Not available now			
575	4 2,4,6-TRICHLOROPHENOL	88-06-2	203-15481	2,4,6-Trichlorophenol Standard	A	200mg	

No.*1	Compound name in Positive List System	CAS No.	Wako Catalog No.	Description	Grade*2	Pkg. Size	*3
576	PROCYMIDONE	32809-16-8	163-11213	Procyridone Standard	A	200mg	
577	PROSULFURON	94125-34-5		Not available now			
578	BROTIZOLAM	57801-81-7	021-15341	Brotizolam Standard	B	200mg	
579	BRODIFACOUM	56073-10-0		Not available now			
580	PROPQUIZAFOP	111479-05-1		Not available now			
581	PROPACHLOR	1918-16-7	164-22191	Propachlor Standard	A	200mg	
582	PROPАЗINE	139-40-2	167-18271	Propazine Standard	A	200mg	
583	PROPANIL	709-98-8	046-16471	DCPA Standard	A	200mg	
584	PROPAPHOS	7292-16-2	160-10243	Propaphos Standard	A	200mg	
585	1 PROPAMOCARB	24579-73-5	161-16731	Propamocarb Standard	A	200mg	
585	2 PROPAMOCARB HYDROCHLORIDE	25606-41-1		Not available now			
586	PROPARGITE	2312-35-8		Not available now			
587	PROPICONAZOLE	60207-90-1	169-16771	Propiconazole Standard	A	200mg	
588	PROPYZAMIDE	23950-58-5		Not available now			
589	PROFENOFOS	41198-08-7	163-17651	Profenofos Standard	A	200mg	
590	1 PROHEXADIONE	88805-35-0	168-18061	Prohexadione Standard	A	200mg	
590	2 PROHEXADIONE-CALCIUM	127277-53-6		Not available now			
591	PROPETAMPHOS	31218-83-4		Not available now			
592	PROBENAZOLE	27605-76-1	162-17481	Probenazole Standard	A	200mg	
593	PROPOXYCARBAZONE	145026-81-9		Not available now			
594	PROPOXUR	114-26-1	162-09291	PHC Standard	A	200mg	
595	BROMACIL	314-40-9	022-06983	Bromacil Standard	A	200mg	
596	BROMOFENOFOS	21466-07-9	027-15681	Bromofenofos Monohydrate Standard	B	200MG	
597	PROMECARB	2631-37-0		Not available now			
598	PROMETRYN	7287-19-6	161-15371	Prometryn Standard	A	200mg	
599	BROMOXYNIL	1689-99-2		Not available now			
600	BROMOCHLOROMETHANE	74-97-5	020-15431	Bromochloromethane Standard	A	200mg	
601	BROMOBUTIDE	74712-19-9	029-12341	Bromobutide Standard	A	200mg	
602	BROMOPROPYLATE	18181-80-1	168-10923	Phenisobromolate Standard	A	200mg	
603	BROMOPHOS	2104-96-3	028-12811	Bromophos Standard	A	200mg	
604	BROMOPHOS-ETHYL	4824-78-6	025-12821	Bromophos-ethyl Standard	A	200mg	
605	FLORASURAM	145701-23-1	064-05021	Florasulam Standard	A	100mg	
606	FLORFENICOL	73231-34-2	060-05001	Florfenicol Standard	B	200mg	
607	HEXACHLOROENZENE	118-74-1		Not available now			
608	HEXACONAZOLE	79983-71-4	081-07571	Hexaconazole Standard	A	200mg	
609	HEXAZINONE	51235-04-2	081-08311	Hexazinone Standard	A	200mg	
610	HEXAFLUMURON	86479-06-3		Not available now			
611	HEXYTHIAZOX	78587-05-0	087-05351	Hexythiazox Standard	A	200mg	
612	VEDAPROFEN	71109-09-6		Not available now			
613	BETAMETHASONE	378-44-9	026-15271	Betamethasone Standard	B	200mg	
614	BENALAXYL	71626-11-4	028-12791	Benalaxyl Standard	A	200mg	
615	BENOXACOR	98730-04-2		Not available now			
616	PENOXSULAM	219714-96-2		Not available now			
617	1 HEPTACHLOR	76-44-8	084-03041	Heptachlor Standard	A	200mg	
617	2 HEPTACHLOR EPOXIDE A	28044-83-9		Not available now			
617	3 HEPTACHLOR EPOXIDE B	1024-57-3		Not available now			
618	PEBULATE	1114-71-2	160-22051	Pebulate Standard	A	50mg	
619	1 trans-PERMETHRIN	61949-77-7	162-21031	trans-Permethrin Standard	A	200mg	
619	2 cis-PERMETHRIN	61949-76-6	162-16521	cis-Permethrin Standard	A	200mg	
620	PENCONAZOLE	66246-88-6		Not available now			
621	PENCYCURON	66063-05-6	164-13683	Pencycuron Standard	A	200mg	
622	BENZYLAMINOPRIN	1214-39-7	022-15251	6-Benzylaminopurine Standard	A	200mg	
623	1 BENZYLPENICILLIN	113-98-4	025-15501	Benzylpenicillin Potassium Standard	B	200mg	
623	2 PENETAMATE	3689-73-4		Not available now			
624	BENSULIDE	741-58-2	025-07671	Bensulide Standard	A	200mg	
625	BENSULFURON-METHYL	83055-99-6	023-12621	Bensulfuron-methyl Standard	A	200mg	
626	BENZOCAINE	94-09-7	020-15791	Benzocaine Standard	B	200mg	
627	BENZOBICYCLON	156963-66-5	023-15781	Benzobicyclon Standard	A	100mg	
628	BENZOFENAP	82692-44-2		Not available now			
629	BENDIOCARB	22781-23-3	028-11691	Bendiocarb Standard	A	200mg	
630	1 BENTAZONE	25057-89-0	029-07593	Bentazone Standard	A	200mg	
630	2 BENTAZONE SODIUM	-		Not available now			
631	PENDIMETHALIN	50723-80-3	162-11901	Pendimethalin Standard	A	200mg	
632	1 CARBOFURAN	82560-54-1	023-09551	Benfuracarb Standard	A	200mg	
632	2 CARBOSULFAN	1563-66-2	033-16321	Carbofuran Standard	A	200mg	
632	3 3-OH CARBOSULFAN	16655-82-6		Not available now			
632	4 3-OH CARBOSULFAN GLYCOSIDE	-		Not available now			
633	BENFLURALIN	1861-40-1	020-11531	Bethrodine Standard	A	200mg	
634	PHOXIM	14816-18-3		Not available now			
635	PHOSALONE	2310-17-0	161-09381	Phosalone Standard	A	200mg	
636	BOSCALID	188425-85-6	027-15821	Boscalid Standard	A	100mg	
637	FOSTHIAZATE	98886-44-3	066-03381	Fosthiazate Standard	A	200mg	
638	PHOSPHAMIDON	13171-21-6	167-18031	Phosphamidon Standard	A	100mg	
639	FOSFOMYCIN	26016-99-9		Not available now			
640	PHOSMET	732-11-6	163-09221	PMP Standard	A	200mg	
641	1 FOSETYL	39148-24-8	065-01813	Fosetyl Standard	A	200mg	
641	2 PHOSPHOROUS ACID	7664-38-2	164-02176	Phosphoric Acid	C	500ml	●
642	FOMESAFEN	72178-02-0	060-04761	Fomesafen Standard	A	100mg	
643	FORAMSULFURON	173159-57-4		Not available now			
644	POLYOXINS	11113-80-7		Not available now			
645	POLYMYXINE B	1404-26-8	167-11691	Polymyxin B Sulfate	C	1g	
646	FORCHLORFENURON	68157-60-8	066-04621	Forchlorfenuron Standard	A	200mg	
647	FOLPET	133-07-3	068-03461	Folpet Standard	A	200mg	
648	FORMOTHION	2540-82-1	068-01303	Formothion Standard	A	200mg	
649	PHORATE	298-02-2		Not available now			

No.*1	Compound name in Positive List System	CAS No.	Wako Catalog No.	Description	Grade*2	Pkg. Size	*3
650	MADURAMICIN	84878-61-5		Not available now			
651	MAFOPRAZINE	80428-29-1		Not available now			
652	MALATHION	121-75-5	138-05513	Malathion Standard	A	200mg	
653	MARBOFLOXACIN	115550-35-1	133-15291	Marbofloxacin Standard	B	200mg	
654	1 MALEIC HYDRAZIDE	123-33-1	136-09791	Maleic Hydrazide Standard	A	200mg	
654	2 MALEIC HYDRAZIDE GLYCOSIDE	-		Not available now			
654	3 HYDRAZINE	7803-57-8	081-00893	Hydrazine Monohydrate	C	25ml	●
655	MYCLOBUTANIL	88671-89-0	139-11131	Myclobutanil Standard	A	100mg	
656	MILNEB	3773-49-7		Not available now			
657	1 MILBEMECTIN A3	51596-10-2		Not available now			
657	2 MILBEMECTIN A4	51596-11-3		Not available now			
658	MILOXACIN	37065-29-5		Not available now			
659	MIROSAMYCIN	73684-69-2		Not available now			
660	MECARBAM	2595-54-2		Not available now			
661	1 MECOPROP	7085-19-0	136-10421	MCPP Standard	A	200mg	
661	2 MECOPROP-P	16484-77-8	130-15441	MCPP-P Standard	A	200mg	
662	MECILLINUM	-		Not available now			
663	MESOSULFURON-METHYL	208465-21-8		Not available now			
664	MESOTRIONE	104206-82-8		Not available now			
665-1	1 METHOMYL	16752-77-5	135-10511	Methomyl Standard	A	200mg	
665-1	2 METHOMYL OXIME	16752-77-5	132-06851	Methyl Thioacetohydroxamate Standard	A	200mg	
665-2	THIODICARB	16752-77-5	207-11361	Thiodicarb Standard	A	200mg	
666	METALDEHYDE	9002-91-9	130-01472	Metaldehyde	C	25g	●
667	METHACRIFOS	62610-77-9		Not available now			
668	METHAZOLE	20354-26-1		Not available now			
669	METHABENZTHIAZURON	18691-97-9	131-12311	Methabenzthiazuron Standard	A	200mg	
670	1 METHAMIDOPHOS	10265-92-6	139-11631	Methamidophos Standard	A	200mg	
670	2 ACEPHATE	30560-19-1	017-08953	Acephate Standard	A	200mg	
671	METAMITRON	41394-05-2		Not available now			
672-1	METALAXYL	57837-19-1	134-11681	Metalaxyl Standard	A	200mg	
672-2	MEFENOXAM	70630-17-0		Not available now			
673	METHIOCARB	2032-65-7		Not available now			
673	METHIOCARB SULFONE	2179-25-1		Not available now			
673	METHIOCARB SULFOXIDE	2635-10-1		Not available now			
674	METHIDATHION	950-37-8	043-17081	DMTP Standard	A	200mg	
675-1	0 METAM	144-54-7		Not available now			
675-1	1 METAM AMMONIUM	-		Not available now			
675-1	2 METAM POTASSIUM	137-41-7		Not available now			
675-1	3 METAM SODIUM	137-42-8		Not available now			
675-2	DAZOMET	533-74-4	045-29631	Dazomet Standard	A	200mg	
675-3	METHYL ISOTHIOCYANATE	556-61-6	139-14791	Methyl isothiocyanate Standard	A	200mg	
676	METHYLPREDNISOLONE	83-43-2	137-15451	Methylprednisolone Standard	B	100mg	
677	METHYLBENZOQUATE	13997-19-8	149-08501	Nequinatate Standard	B	200mg	
678	METHOXYCHLOR	72-43-5	139-12231	Methoxychlor Standard	A	200mg	
679	METHOXYFENOZIDE	161050-58-4		Not available now			
680	METOCLOPRAMIDE	364-62-5	132-14921	Metoclopramide Standard	B	200mg	
681	METOSULAM	139528-85-1		Not available now			
682	METSULFURON-METHYL	74223-64-6	131-12671	Metsulfuron-methyl Standard	A	200mg	
683	METHOPRENE	40596-69-8		Not available now			
684	1 (E)-METOMINOSTROBIN	133408-50-1		Not available now			
684	2 (Z)-METOMINOSTROBIN	133408-51-2		Not available now			
685	1 METOLACHLOR	51218-45-2		Not available now			
685	2 S-METOLACHLOR	87392-12-9		Not available now			
686	1 METRIBUZIN	21087-64-9		Not available now			
686	2 METRIBUZIN-DESAMINO	35045-02-4	137-11791	Metribuzin DA Standard	A	100mg	
686	3 METRIBUZIN-DIKETO	56507-37-0	130-11801	Metribuzin DK Standard	A	100mg	
686	4 METRIBUZIN-DESAMINO-DIKETO	52236-30-3	130-11781	Metribuzin DADK Standard	A	100mg	
687	1 MEPANIPYRIM	110235-47-7	137-12651	Mepanipyrim Standard	A	200mg	
687	2 MEPANIPYRIM-PROPANOL	-		Not available now			
688	MEPIQUAT-CHLORIDE	24307-26-4	130-14841	Mepiquat Chloride Standard	A	200mg	
689	1 MEVINPHOS	7786-34-7		Not available now			
689	2 (E)-MEVINPHOS	26718-65-0	132-15521	(E)-Mevinphos Standard	A	100mg	
689	3 (Z)-MEVINPHOS	338-45-4	139-15531	(Z)-Mevinphos Standard	A	100mg	
690	MEFENPYR-DIETHYL	135590-91-9		Not available now			
691	MEBENDAZOLE	31431-39-7	130-15201	Mebendazole Standard	B	200MG	
692	MELOXICAM	71125-38-7	135-15131	Meloxicam Standard	B	200mg	
693	MENBUTONE	3562-99-0	135-15011	Menbutone Standard	B	200mg	
694	MOXIDECTIN	113507-06-5		Not available now			
695	MONENSIN	22373-78-0		Not available now			
696	MONOCROTOPHOS	6923-22-4	138-11101	Monocrotophos Standard	A	200mg	
697	MONOLINURON	1746-81-2		Not available now			
698	MORANTEL	69525-81-1	135-12691	Morantel Citrate Monohydrate Standard	B	200mg	
699	LAILDOMYCIN	-		Not available now			
700	LACTOFEN	77501-63-4		Not available now			
701	LASALOCID	25999-31-9		Not available now			
702	RAFOXANIDE	22662-39-1	185-01961	Rafoxanide Standard	B	200mg	
703	LINURON	330-55-2	129-02281	Linuron Standard	A	200mg	
704	RIFAXIMIN	80621-81-4	181-02041	Rifaximin Standard	B	200MG	
705	RIMSULFURON	122931-48-0	186-02091	Rimsulfuron	A	200mg	
706	CARBONYL SULFIDE	-		Not available now			
707	1 HYDROGEN PHOSPHIDE	-	160-19241	Phosphorus Standard Solution (P : 1000mg/l)	C	50ml	
707	2 ALMINIUM PHOSPHIDE	-		Not available now			
707	3 MAGNESIUM PHOSPHIDE	-		Not available now			
707	4 ZINC PHOSPHIDE	-		Not available now			
708	LINCOMYCIN	154-21-2		Not available now			

No.*1	Compound name in Positive List System	CAS No.	Wako Catalog No.	Description	Grade*2	Pkg. Size	*3
709	LINDANE (GAMMA-BHC)	58-89-9	025-05731	γ -BHC Standard	A	200mg	
710	LUFENURON	103055-07-8	125-04721	Lufenuron Standard	A	200mg	
711	RESMETHRIN	10453-86-8	182-02071	Resmethrin Standard	A	200mg	
712	LEVAMISOLE	16595-80-5	126-04991	Levamisole Hydrochloride Standard	B	200mg	
713	ROXARSONE	121-19-7	181-01941	Roxarsone Standard	B	200mg	
714	ROBENIDINE	25875-50-7		Not available now			
715	WARFARIN	81-81-2	232-02281	Warfarin Standard	A	200mg	
add 1	2,6-DIISOPROPYLNAPHTHALEN	24157-81-1	043-29811	2,6-Diisopropyl-naphthalen Standard	A	200mg	
add 2	N-(2-ETHYLHEXYL)-8,9,10-TRINORBORN-5-ENE-2,3-DICARBOXIMIDE	113-48-4		Not available now			
add 2	cis-N-(2-ETHYLHEXYL)-8,9,10-TRINORBORN-5-ENE-2,3-DICARBOXIMIDE		051-07431	cis-N-(2-Ethylhexyl)-8,9,10-trinorborn-5-ene-2,3-dicarboximide Standard	A	100mg	
add 2	trans-N-(2-ETHYLHEXYL)-8,9,10-TRINORBORN-5-ENE-2,3-DICARBOXIMIDE		055-07711	trans-N-(2-Ethylhexyl)-8,9,10-trinorborn-5-ene-2,3-dicarboximide Standard	A	100mg	
add 3	SPIROMESIFEN	283594-90-1		Not available now			
add 4	1 TULATHROMYCIN A	217500-96-4		Not available now			
add 4	2 TULATHROMYCIN B	280755-12-6		Not available now			
add 5	AMINOPYRALID	150114-71-9		Not available now			
add 6	1 CRYSTAL VIOLET	548-62-9	032-20201	Crystal Violet Standard	B	200mg	
add 6	2 LEUCOCRYSTAL VIOLET	603-48-5	120-05371	Leucocrystal Violet Standard	B	200mg	
add 7	METHYLENE BLUE	7220-79-3		Not available now			
add 8	METOCONAZOLE	125116-23-6		Not available now			
add 9	CIPROFLOXACIN	86393-32-0	033-19621	Ciprofloxacin Hydrochloride Monohydrate Standard	B	200mg	
add 10	1 ORISASTROBIN	248593-16-0	152-02671	Oryastrobin Standard	A	50mg	
add 10	2 ORISASTROBIN (5Z ISOMER)	-	159-02681	(5Z)-Oryastrobin Standard	A	50mg	
add 11	1 FLONICAMID	158062-67-0	060-04881	Flonicamid Standard	A	200mg	
add 11	2 TFNA	158063-66-2	205-16781	TFNA Standard	A	50mg	
add 11	3 TFNA-AM	158062-71-6	202-16791	TFNA-AM Standard	A	50mg	
add 11	4 TFNG	207502-65-6	208-16771	TFNG Standard	A	50mg	
add 12	FLUBENDIAMIDE	272451-65-7	061-05031	Flubendiamide Standard	A	100mg	
add 13	BENTHIAVALICARB-ISOPROPYL	177406-68-7	021-15961	Benthiavalicarb-isopropyl Standard	A	100mg	
add 14	BRILLIANT GREEN	272451-65-7	023-16021	Brilliant Green Standard	B	100mg	

List of Agricultural Chemicals shall not be detected in any food

1	2,4,5-T	93-76-5	208-11911	2,4,5-T Standard	A	200mg	
2-1	AZOCYCLOTIN	41083-11-8	019-15601	Azocyclostin Standard	A	200mg	
2-2	TRICYCLOHEXYLTIN	13121-70-5	203-06571	Tricyclohexyltin Hydroxide Standard	A	200mg	
3	AMITROLE	61-82-5	016-14011	Amitrole Standard	A	200mg	
4	DIFOLATAN	2425-06-1	042-16211	Difolatan Standard	A	200mg	
5	1 CARBADOX	6804-07-5	033-16681	Carbadox Standard	B	200mg	
5	2 2-QUINOXALINECARBOXYLIC ACID	879-65-2	170-00491	2-Quinoxalinecarboxylic Acid Standard	B	200mg	
6	COUMAPHOS	56-72-4	037-16461	Coumaphos Standard	A	200mg	
7	CHLORAMPHENICOL	56-75-7	037-19641	Chloramphenicol Standard	B	200mg	
8	CHLORPROMAZINE	69-09-0	036-19611	Chlorpromazine Hydrochloride Standard	B	200mg	
9	DIETHYLSTILBESTROL (DES)	56-53-1	048-30111	Diethylstilbestrol Standard	B	200mg	
10	DIMETRIDAZOLE	551-92-8	047-30181	Dimetridazole Standard	B	200mg	
11	1 DAMINOZIDE	1596-84-5	046-22841	Daminozide Standard	A	200mg	
11	2 DIMETHYLHYDRAZINE	57-14-7	048-25221	N,N-Dimethylhydrazine Standard	A	200mg	
12-1	1 FURAZOLIDONE	67-45-8	063-03651	Furazolidone Standard	B	200mg	
12-1	2 3-AMINO-2-OXAZOLIDINONE (AOZ)	80-65-9		Not available now			
12-2	1 NITROFURANTOIN	67-20-9		Not available now			
12-2	2 1-AMINOHYDANTOIN	2827-56-7	015-21171	1-Aminohydantoin Hydrochloride Standard	B	200mg	
12-3	1 FURALTADONE	139-91-3		Not available now			
12-3	2 3-AMINO-5-MORPHOLINOMETHYL-2-OXAZOLIDINONE (AMOZ)	43056-63-9		Not available now			
12-4	1 NITROFURAZONE	59-87-0	146-08511	Nitrofurazone Standard	B	200mg	
12-4	2 SEMICARBAZIDE	563-41-7	199-14591	Semicarbazide Hydrochloride Standard	B	200mg	
13	PROPHAM	122-42-9	164-22071	Propham Standard	A	200mg	
14	1 MALACHITE GREEN	2437-29-8	132-15141	Malachite Green Oxalate Standard	B	200mg	
14	2 LEUCOMALACHITE GREEN	129-73-7	121-05301	Leucomalachite Green Standard	B	200mg	
15	METRONIDAZOLE	443-48-1	139-14931	Metronidazole Standard	B	200mg	
16	RONIDAZOLE	7681-76-7	180-02011	Ronidazole Standard	B	200mg	

*1 : The number on the left column is revised based on the index of the Positive List System for Agricultural Chemical Residues in Foods (Final Draft)

*2 : Note on Grade

A : for Pesticide Residual Analysis

B : for High Performance Liquid Chromatography

C : for Other Use

*3 : The products marked with ● in *3 column are NOT Reference Materials of Wako

The product availability information is as of October 2007. Please contact us at the contact information at the end of this catalog for the update.

3. Other related products



www.boppara.com

宝柏·中国

Presep[®] : Solid-phase Extraction Column

Solid-phase extraction is used for sample preparation before applying samples to HPLC or GC systems, and is also a conventional way of sample preparation in diverse field because of its easiness and less solvent consumption.

Wako supplies two types of Presep[®], which are both applicable for solid-phase extraction:

- Presep[®]-C : a cartridge column, whose both ends are closed.
- Presep[®] : a syringe column

Presep[®]-C: Cartridge Column



Presep[®]-C(Short)

Presep[®]-C

Presep[®]: Syringe Column



Presep[®]

Some solid-phase extraction mini columns are used for sample preparation in the Positive List System. The following list shows the examples of products described in food analysis method from MHLW.

■ Product list

Filler name, describe in food analysis method from MHLW	Wako Cat. No.	Wako Product Name	Filler ration /Cartridge	Pkg. size
Octadecyl silylated mini column	297-47451	Presep [®] -C C18(ODS) (Short)	470 mg	5 × 10 pcs
	292-32251	Presep [®] -C C18(ODS)	900 mg	5 × 10 pcs
	291-48554	Presep [®] C18(ODS) Type M	5,000 mg	2 × 10pcs
	297-48551			5 × 10pcs
Aminopropyl silylated mini column	299-48751	Presep [®] -C NH ₂ (Short)	400 mg	5 × 10 pcs
	295-48851	Presep [®] -C NH ₂	820 mg	5 × 10 pcs
Silica gel mini column	294-31851	Presep [®] -C Silica Gel	800 mg	50 pcs
Alumina mini column	290-32051	Presep [®] -C Alumina	1700 mg	5 × 10 pcs
Synthetic magnesium silicate mini column	290-31951	Presep [®] -C Florisil	800 mg	5 × 10 pcs
	291-44051	Presep [®] Florisil	1,000 mg	5 × 10 pcs
Porous Diatomaceous Earth mini column	292-35051	Presep [®] Diatomaceous Earth, Granular	1,000 mg	100 pcs
	298-35151		2,000 mg	
	294-35251		4,500 mg	
Carboxymethyl-linked slightly acidic cation-exchange resin mini column	298-61801	Presep [®] CM	250 mg	5 × 10 pcs

Products for LC/MS method

■ Columns for HPLC

Description	Symbol	Size
Wakopak® Wakosil- II 3C18 HG	㇏	2Φ×150mm 3Φ×150mm

■ Solvents for LC/MS

Cat. No	Description	Grade	Pkg.size
018-20061	Acetic Acid	for LC/MS	50ml
016-19854	Acetonitrile	for LC/MS	100ml
012-19851			1L
018-19853			3L
132-14524	Methanol	for LC/MS	100mL
138-14521			1L
134-14523			3L
214-01301	Ultrapure Water	for LC/MS	1L
210-01303			3L
067-04531	Formic Acid (abt. 99%)	for LC/MS	50ml
011-20551	0.1vol% Acetic Acid-Acetonitrile	for LC/MS	1L
017-20553			3L
062-04721	0.1vol% Formic Acid-Acetonitrile	for LC/MS	1L
068-04723			3L



- All products are sold for laboratory use only. They are not for use in humans.
- Please visit our online catalog to search for other products from Wako; <http://www.e-reagent.com>
- This brochure may contain products that cannot be exported to your country due to regulations.
- Bulk quote requests for some products are welcomed. Please contact us.

FUJIFILM Wako Pure Chemical Corporation

ffwk.fujifilm.co.jp
1-2, Doshomachi 3-Chome
Chuo-Ku, Osaka 540-8605, Japan
Tel: 81-6-6203-3741
Fax: 81-6-6203-1999
ffwk-cservice@fujifilm.com
Online Catalog: www.e-reagent.com



北京 Tel: 010 85804838
上海 Tel: 021 62884751
广州 Tel: 020 87326381
香港 Tel: 852 27999019
Email: info@boppard.cn

宝柏官网



产品数据库

