



Cambridge Isotope  
Laboratories, Inc.

2023

# Environmental Contaminant Standards

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## 6PPD-Quinone

### Featured Products

Catalog No.	Description	Concentration	Amount	Price(¥)
CLM-11290-1.2	6PPD-Quinone (ring- <sup>13</sup> C <sub>12</sub> , 99%) CP 95%	100 µg/mL in acetonitrile	1.2 mL	¥208,000
CLM-12293-1.2	6PPD-Quinone (phenyl- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in acetonitrile	1.2 mL	¥182,000
ULM-12288-1.2	6PPD-Quinone (unlabeled) CP 95%	100 µg/mL in acetonitrile	1.2 mL	¥44,000

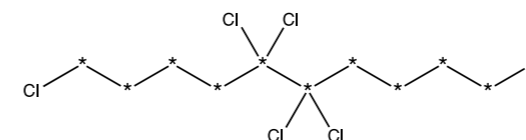
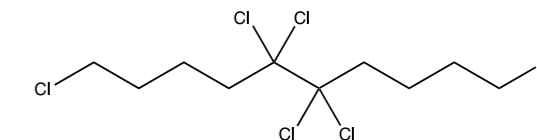
### Related Products

Catalog No.	Description	Concentration	Amount	Price(¥)
DLM-4880-1.2	<i>N,N'</i> -Diphenyl- <i>p</i> -phenylenediamine (D <sub>14</sub> , 98%) CP 95%	100 µg/mL in nonane	1.2 mL	¥109,400
ULM-9465-1.2	<i>N,N'</i> -Diphenyl- <i>p</i> -phenylenediamine (unlabeled)	100 µg/mL in nonane	1.2 mL	¥42,200

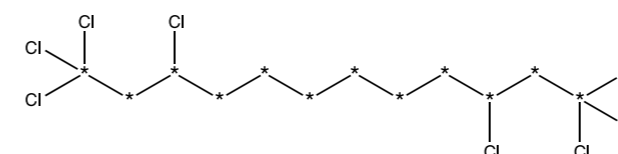
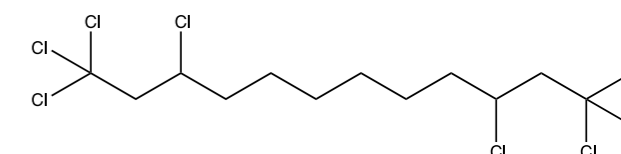
## Chlorinated Paraffins

### Featured Products

Catalog No.	Description	Concentration	Amount	Price(¥)
CLM-9000-1.2	1,5,5,6,6,10-Hexachlorodecane ( <sup>13</sup> C <sub>10</sub> , 99%)	100 µg/mL in nonane	1.2 mL	¥291,000
ULM-8917-1.2	1,5,5,6,6,10-Hexachlorodecane (unlabeled)	100 µg/mL in nonane	1.2 mL	¥71,000
CLM-9679-1.2	1,1,1,3,10,12,12,12-Octachlorododecane ( <sup>13</sup> C <sub>12</sub> , 99%)	100 µg/mL in nonane	1.2 mL	¥284,000
ULM-9485-1.2	1,1,1,3,10,12,12,12-Octachlorododecane (unlabeled)	100 µg/mL in nonane	1.2 mL	¥71,000

1,5,5,6,6,10-Hexachlorodecane (<sup>13</sup>C<sub>10</sub>, 99%)

1,5,5,6,6,10-Hexachlorodecane (unlabeled)

1,1,1,3,10,12,12,12-Octachlorododecane (<sup>13</sup>C<sub>12</sub>, 99%)

1,1,1,3,10,12,12,12-Octachlorododecane (unlabeled)



## Bisphenols and Related Products

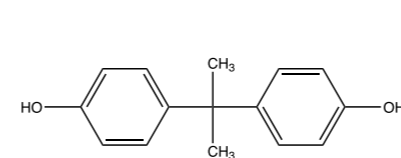
## Featured Products

Catalog No.	Description	Concentration	Amount	Price(¥)
CLM-4325-1.2	Bisphenol A (ring- <sup>13</sup> C <sub>12</sub> , 99%)	100 µg/mL in acetonitrile	1.2 mL	¥125,000
<b>NEW!</b> DLM-2774-1.2	Bisphenol A (ring-3,3',5,5'-D <sub>4</sub> , 97%)	100 µg/mL in methanol-OD	1.2 mL	お問い合わせ
ULM-7106-1.2	Bisphenol A (unlabeled)	100 µg/mL in acetonitrile	1.2 mL	¥35,600
CLM-9776-1.2	Bisphenol AF (ring- <sup>13</sup> C <sub>12</sub> , 99%)	100 µg/mL in methanol	1.2 mL	¥141,000
ULM-9779-1.2	Bisphenol AF (unlabeled)	100 µg/mL in methanol	1.2 mL	¥47,400
ULM-9830-1.2	Bisphenol AP (unlabeled)	100 µg/mL in methanol	1.2 mL	¥47,400
CLM-9851-1.2	Bisphenol B (ring- <sup>13</sup> C <sub>12</sub> , 99%)	100 µg/mL in acetonitrile	1.2 mL	¥144,600
ULM-9852-1.2	Bisphenol B (unlabeled)	100 µg/mL in acetonitrile	1.2 mL	¥47,400
ULM-9826-1.2	Bisphenol E (unlabeled)	100 µg/mL in acetonitrile	1.2 mL	¥47,400
CLM-9866-1.2	Bisphenol F (ring- <sup>13</sup> C <sub>12</sub> , 99%)	100 µg/mL in acetonitrile	1.2 mL	¥144,600
<b>NEW!</b> DLM-10924-1.2	Bisphenol F (D <sub>10</sub> , 98%)	100 µg/mL in methanol-OD	1.2 mL	¥112,000
ULM-9827-1.2	Bisphenol F (unlabeled)	100 µg/mL in acetonitrile	1.2 mL	¥47,400
ULM-9829-1.2	Bisphenol P (unlabeled)	100 µg/mL in methanol	1.2 mL	¥47,400
CLM-9319-1.2	Bisphenol S ( <sup>13</sup> C <sub>12</sub> , 98%)	100 µg/mL in methanol	1.2 mL	¥144,600
<b>NEW!</b> DLM-10923-1.2	Bisphenol S (ring-D <sub>8</sub> , 98%)	100 µg/mL in methanol-OD	1.2 mL	¥112,000
ULM-9320-1.2	Bisphenol S (unlabeled)	100 µg/mL in methanol	1.2 mL	¥47,400
ULM-9828-1.2	Bisphenol Z (unlabeled)	100 µg/mL in methanol	1.2 mL	¥47,400

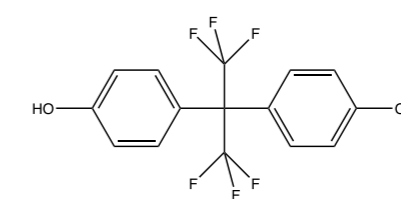
## Related Products

Catalog No.	Description	Concentration	Amount	Price(¥)
ULM-9831-1.2	Bisphenol A β-D-glucuronide (unlabeled)	100 µg/mL in methanol	1.2 mL	¥144,600
ULM-9832-1.2	Bisphenol A bis-(β-D-glucuronide), disodium salt (unlabeled)	100 µg/mL in methanol	1.2 mL	¥144,600
ULM-9833-1.2	Bisphenol A bissulfate, disodium salt (unlabeled)	100 µg/mL in methanol	1.2 mL	¥109,400
DLM-9193-1.2	Bisphenol A diglycidyl ether (BADGE) (diglycidyl-D <sub>10</sub> , 98%)	100 µg/mL in acetonitrile	1.2 mL	¥109,400
ULM-9857-1.2	Bisphenol A diglycidyl ether (BADGE) (unlabeled)	100 µg/mL in acetonitrile	1.2 mL	¥43,800
CLM-9867-1.2	Bisphenol F diglycidyl ether (BFDGE) (ring- <sup>13</sup> C <sub>12</sub> , 99%)	100 µg/mL in acetonitrile	1.2 mL	¥165,000
ULM-9868-1.2	Bisphenol F diglycidyl ether (BFDGE) (unlabeled)	100 µg/mL in acetonitrile	1.2 mL	¥47,400

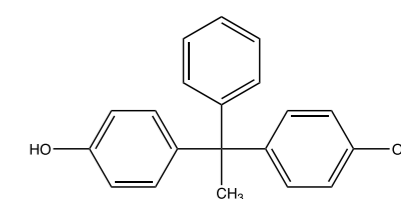
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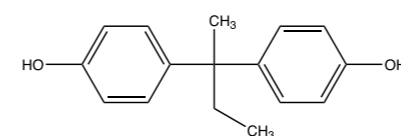
Bisphenol A



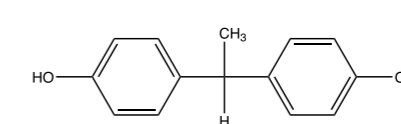
Bisphenol AF



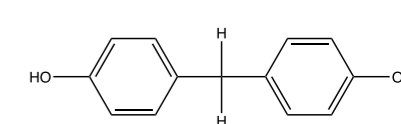
Bisphenol AP



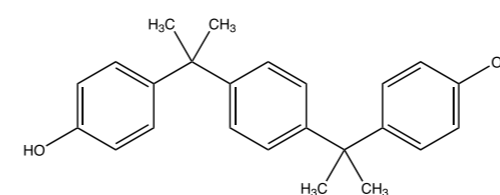
Bisphenol B



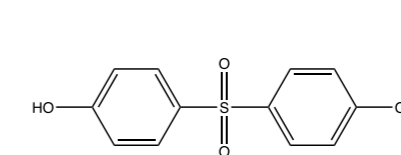
Bisphenol E



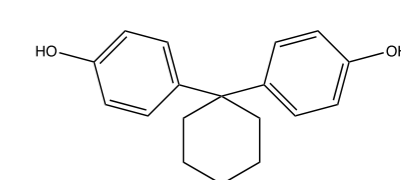
Bisphenol F



Bisphenol P

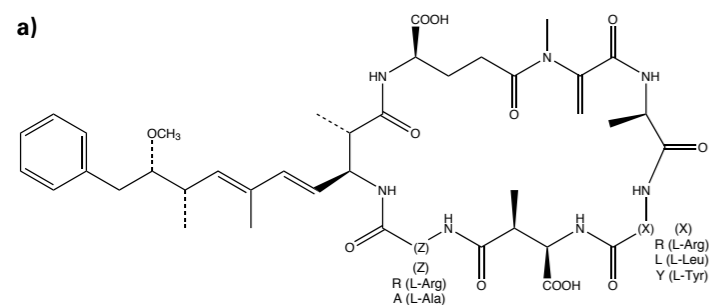


Bisphenol S

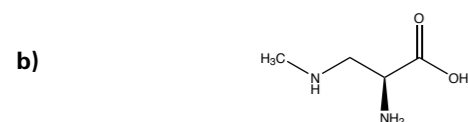


Bisphenol Z

## Cyanotoxins



**Figure.** Chemical structure of featured cyanotoxins – MC in **a)** and BMAA in **b)**. The MC structure is cyclo-(D-Ala-L-X-D-isoMeAsp-L-Z-Adda-D-isoGlu-Mdha), where D-isoMeAsp is D-erythro- $\beta$ -methyl-aspartic acid, Adda is 3-amino-9-methoxy-2,6,8-trimethyl-10-phenyl-4,6-decadienoic acid, and MDha is *N*-methyl-dehydroalanine.<sup>6</sup> The X and Z positions are variable L-amino acids that determine the suffix in the MC nomenclature (e.g., MC-LR has L at X and R at Z).

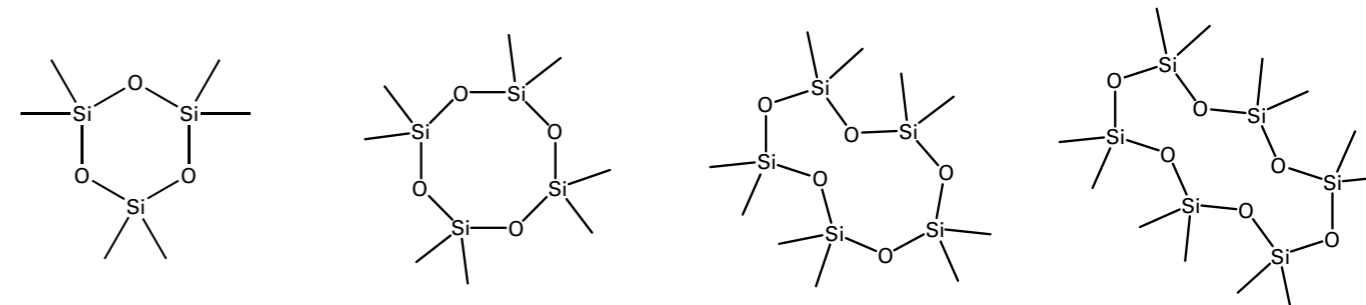


### Featured Products

Catalog No.	Description	Concentration	Amount	Price(¥)
DLM-10260-0.025MG	Microcystin-LR, ethylated (D <sub>5</sub> , 98%)	Neat	25 µg	¥113,000
NLM-10295-1.2	Microcystin-LR ( <sup>15</sup> N <sub>10</sub> , 98%)	10 µg/mL in methanol:water (1:1)	1.2 mL	¥170,400
ULM-10342-1.2	Microcystin-LR (unlabeled)	10 µg/mL in methanol:water (1:1)	1.2 mL	¥51,200
NLM-10340-1.2	Microcystin-RR ( <sup>15</sup> N <sub>13</sub> , 98%)	10 µg/mL in methanol:water (1:1)	1.2 mL	¥170,400
ULM-10341-1.2	Microcystin-RR (unlabeled)	10 µg/mL in methanol:water (1:1)	1.2 mL	¥51,200
NLM-10343-1.2	Microcystin-YR ( <sup>15</sup> N <sub>10</sub> , 98%)	10 µg/mL in methanol:water (1:1)	1.2 mL	¥197,600
ULM-10344-1.2	Microcystin-YR (unlabeled)	10 µg/mL in methanol:water (1:1)	1.2 mL	¥69,800
NLM-10345-1.2	Microcystin-LA ( <sup>15</sup> N <sub>7</sub> , 98%)	10 µg/mL in methanol:water (1:1)	1.2 mL	¥197,600
ULM-10346-1.2	Microcystin-LA (unlabeled)	10 µg/mL in methanol:water (1:1)	1.2 mL	¥69,800
CNLM-10424-1.2*	$\beta$ - <i>N</i> -Methylamino-L-alanine (BMAA) ( <sup>13</sup> C <sub>3</sub> , 99%; <sup>15</sup> N <sub>2</sub> , 98%)	100 µg/mL in 0.1 M HCl	1.2 mL	¥168,200
ULM-10493-1.2	$\beta$ - <i>N</i> -Methylamino-L-alanine (BMAA) (unlabeled)	100 µg/mL in 0.1 M HCl	1.2 mL	¥48,000

\*US Patent No. 11,370,812

## Cyclic Volatile Methyl Siloxanes (cVMS)



Hexamethylcyclotrisiloxane (D3)   Octamethylcyclotetrasiloxane (D4)   Decamethylcyclopentasiloxane (D5)   Dodecamethylcyclohexasiloxane (D6)

### Featured Products

Catalog No.	Description	Concentration	Amount	Price(¥)
CLM-9542-1.2	Hexamethylcyclotrisiloxane (D3) (hexamethyl- <sup>13</sup> C <sub>6</sub> , 98%)	100 µg/mL in MTBE	1.2 mL	¥284,000
ULM-9687-1.2	Hexamethylcyclotrisiloxane (D3) (unlabeled)	100 µg/mL in MTBE	1.2 mL	¥55,600
CLM-9436-MT-1.2	Octamethylcyclotetrasiloxane (D4) (octamethyl- <sup>13</sup> C <sub>8</sub> , 98%)	100 µg/mL in MTBE	1.2 mL	¥274,000
ULM-9441-MT-1.2	Octamethylcyclotetrasiloxane (D4) (unlabeled)	100 µg/mL in MTBE	1.2 mL	¥62,400
CLM-9437-MT-1.2	Decamethylcyclopentasiloxane (D5) (decamethyl- <sup>13</sup> C <sub>10</sub> , 98%)	100 µg/mL in MTBE	1.2 mL	¥274,000
ULM-9442-MT-1.2	Decamethylcyclopentasiloxane (D5) (unlabeled)	100 µg/mL in MTBE	1.2 mL	¥61,000
CLM-10232-1.2	Dodecamethylcyclohexasiloxane (D6) (methyl- <sup>13</sup> C <sub>6</sub> , 98%)	100 µg/mL in methanol	1.2 mL	¥274,000
ULM-9443-1.2	Dodecamethylcyclohexasiloxane (D6) (unlabeled)	100 µg/mL in methanol	1.2 mL	¥64,000

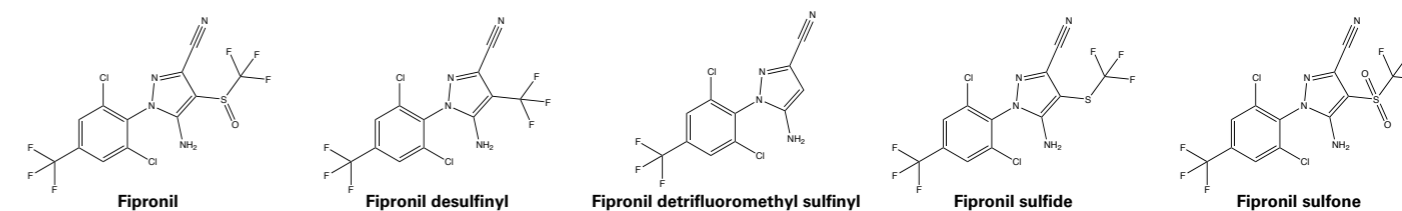


## Ethylene Oxide and 2-Chloroethanol

## Featured Products

Catalog No.	Description	Concentration	Amount	Price(¥)
CDLM-10834-1.2	Ethylene oxide ( <sup>13</sup> C <sub>2</sub> , 99%; D <sub>4</sub> , 98%) (stabilized with 0.1% hydroquinone)	1000 µg/mL in methylene chloride	Inquire	お問い合わせ
DLM-271-1.2	Ethylene oxide (D <sub>4</sub> , 98%) (stabilized with 0.1% hydroquinone)	1000 µg/mL in methylene chloride	1.2 mL	¥63,800
ULM-12324-1.2	Ethylene oxide (unlabeled) (stabilized with 0.1% hydroquinone)	1000 µg/mL in methylene chloride	Inquire	お問い合わせ
DLM-1928-1.2	2-Chloroethanol (1,1,2,2-D <sub>4</sub> , 98%)	1000 µg/mL in methanol	1.2 mL	¥67,000
ULM-12311-1.2	2-Chloroethanol (unlabeled)	1000 µg/mL in methanol	1.2 mL	¥33,000

## Fipronil



## Featured Products

Catalog No.	Description	Concentration	Amount	Price(¥)
CNLM-9636-MT-1.2	Fipronil (3-cyano, pyrazole-3,4,5- <sup>13</sup> C <sub>4</sub> , 99%; 3-cyano, 5- <sup>15</sup> N <sub>2</sub> , 98%)	100 µg/mL in MTBE	1.2 mL	¥169,000
ULM-9635-MT-1.2	Fipronil (unlabeled)	100 µg/mL in MTBE	1.2 mL	¥35,400
CNLM-9647-1.2	Fipronil desulfinyl (3-cyano, pyrazole-3,4,5- <sup>13</sup> C <sub>4</sub> , 99%; 3-cyano, 5- <sup>15</sup> N <sub>2</sub> , 98%)	100 µg/mL in methanol	1.2 mL	¥169,000
ULM-9646-1.2	Fipronil desulfinyl (unlabeled)	100 µg/mL in methanol	1.2 mL	¥35,400
CNLM-9650-1.2	Fipronil detrifluoromethyl sulfinyl ( <sup>13</sup> C <sub>4</sub> , 99%; <sup>15</sup> N <sub>2</sub> , 98%)	100 µg/mL in methanol	1.2 mL	¥171,800
ULM-9649-1.2	Fipronil detrifluoromethyl sulfinyl (unlabeled)	100 µg/mL in methanol	1.2 mL	¥35,400
CNLM-9645-1.2	Fipronil sulfide (3-cyano, pyrazole-3,4,5- <sup>13</sup> C <sub>4</sub> , 99%; 3-cyano, 5- <sup>15</sup> N <sub>2</sub> , 98%)	100 µg/mL in methanol	1.2 mL	¥169,000
ULM-9644-1.2	Fipronil sulfide (unlabeled)	100 µg/mL in methanol	1.2 mL	¥35,400
CNLM-9643-1.2	Fipronil sulfone (3-cyano, pyrazole-3,4,5- <sup>13</sup> C <sub>4</sub> , 99%; 3-cyano, 5- <sup>15</sup> N <sub>2</sub> , 98%)	100 µg/mL in methanol	1.2 mL	¥169,000
ULM-9642-1.2	Fipronil sulfone (unlabeled)	100 µg/mL in methanol	1.2 mL	¥35,400

## Related Compounds: Neonicotinoids



## Flame Retardant Standards

### Isotope-Labeled Individual Brominated Diphenyl Ether (BDE) Standards

Catalog No.	Compound	BDE	Concentration	Unit Size	Price(¥)
CLM-1587-1.2	Diphenyl ether ( <sup>13</sup> C <sub>12</sub> , 99%)	0	50 µg/mL in nonane	1.2 mL	¥192,000
EO-4999	4-MonoBDE ( <sup>13</sup> C <sub>12</sub> , 99%)	3	50 µg/mL in nonane	1.2 mL	¥259,400
EO-5001	4,4'-DiBDE ( <sup>13</sup> C <sub>12</sub> , 99%)	15	50 µg/mL in nonane	1.2 mL	¥259,400
EO-5002	2,4,4'-TriBDE ( <sup>13</sup> C <sub>12</sub> , 99%)	28	50 µg/mL in nonane	1.2 mL	¥259,400
EO-4982	2,2',4,4'-TetraBDE ( <sup>13</sup> C <sub>12</sub> , 99%)	47	50 µg/mL in nonane	1.2 mL	¥259,400
EO-1439	3,3',4,4'-TetraBDE ( <sup>13</sup> C <sub>12</sub> , 99%)	77	50 µg/mL in nonane	1.2 mL	¥307,600
EO-4983	2,2',4,4',5-PentaBDE ( <sup>13</sup> C <sub>12</sub> , 99%)	99	50 µg/mL in nonane	1.2 mL	¥307,600
EO-4993	2,2',4,4',6-PentaBDE ( <sup>13</sup> C <sub>12</sub> , 99%)	100	50 µg/mL in nonane	1.2 mL	¥307,600
EO-5034	2,3',4,4',5-PentaBDE ( <sup>13</sup> C <sub>12</sub> , 99%)	118	50 µg/mL in nonane	1.2 mL	¥307,600
EO-4930	3,3',4,4',5-PentaBDE ( <sup>13</sup> C <sub>12</sub> , 99%)	126	50 µg/mL in nonane	1.2 mL	¥211,400
EO-5035	2,2',3,4,4',5'-HexaBDE ( <sup>13</sup> C <sub>12</sub> , 99%)	138	50 µg/mL in nonane	1.2 mL	¥268,600
EO-5165	2,2',3,4,4',6-HexaBDE ( <sup>13</sup> C <sub>12</sub> , 99%)	139	50 µg/mL in nonane	1.2 mL	¥307,600
EO-4984	2,2',4,4',5,5'-HexaBDE ( <sup>13</sup> C <sub>12</sub> , 99%)	153	50 µg/mL in nonane	1.2 mL	¥307,600
EO-5161	2,2',4,4',5,6'-HexaBDE ( <sup>13</sup> C <sub>12</sub> , 99%)	154	50 µg/mL in nonane	1.2 mL	¥307,600
EO-5413	2,2',4,4',6,6'-HexaBDE ( <sup>13</sup> C <sub>12</sub> , 99%)	155	50 µg/mL in nonane	1.2 mL	¥259,400
EO-4985	2,2',3,4,4',5',6-HeptaBDE ( <sup>13</sup> C <sub>12</sub> , 99%)	183	50 µg/mL in nonane	1.2 mL	¥307,600
EO-5376	2,3,3',4,4',5,6-HeptaBDE ( <sup>13</sup> C <sub>12</sub> , 99%)	190	50 µg/mL in nonane	1.2 mL	¥307,600
EO-5337	2,2',3,3',4,4',6,6'-OctaBDE ( <sup>13</sup> C <sub>12</sub> , 99%)	197	50 µg/mL in nonane	1.2 mL	¥307,600
EO-5377	2,2',3,4,4',5,5',6-OctaBDE ( <sup>13</sup> C <sub>12</sub> , 99%)	203	50 µg/mL in nonane	1.2 mL	¥307,600
EO-5355	2,2',3,4,4',5,6,6'-OctaBDE ( <sup>13</sup> C <sub>12</sub> , 99%)	204	50 µg/mL in nonane	1.2 mL	¥307,600
EO-5362	2,3,3',4,4',5,5',6-OctaBDE ( <sup>13</sup> C <sub>12</sub> , 99%)	205	50 µg/mL in nonane	1.2 mL	¥307,600
EO-5240	2,2',3,3',4,4',5,5',6-NonaBDE ( <sup>13</sup> C <sub>12</sub> , 99%)	206	50 µg/mL in nonane	1.2 mL	¥307,600
EO-5241	2,2',3,3',4,4',5,6,6'-NonaBDE ( <sup>13</sup> C <sub>12</sub> , 99%)	207	50 µg/mL in nonane	1.2 mL	¥307,600
EO-5242	2,2',3,3',4,5,5',6,6'-NonaBDE ( <sup>13</sup> C <sub>12</sub> , 99%)	208	50 µg/mL in nonane	1.2 mL	¥307,600
EO-5003	DecaBDE ( <sup>13</sup> C <sub>12</sub> , 99%)	209	50 µg/mL in nonane	1.2 mL	¥279,000

Continued ▶

### Unlabeled Individual Brominated Diphenyl Ether (BDE) Standards

Catalog No.	Compound	BDE	Concentration	Unit Size	Price(¥)
BDE-1-CS	2-MonoBDE	1	50 µg/mL in nonane	1.2 mL	¥70,000
BDE-2-CS	3-MonoBDE	2	50 µg/mL in nonane	1.2 mL	¥70,000
BDE-3-CS	4-MonoBDE	3	50 µg/mL in nonane	1.2 mL	¥70,000
BDE-7-CS	2,4-DiBDE	7	50 µg/mL in nonane	1.2 mL	¥70,000
BDE-8-CS	2,4'-DiBDE	8	50 µg/mL in nonane	1.2 mL	¥70,000
BDE-10-CS	2,6-DiBDE	10	50 µg/mL in nonane	1.2 mL	¥70,000
BDE-11-CS	3,3'-DiBDE	11	50 µg/mL in nonane	1.2 mL	¥70,000
BDE-12-CS	3,4-DiBDE	12	50 µg/mL in nonane	1.2 mL	¥70,000
BDE-13-CS	3,4'-DiBDE	13	50 µg/mL in nonane	1.2 mL	¥70,000
BDE-15-CS	4,4'-DiBDE	15	50 µg/mL in nonane	1.2 mL	¥70,000
BDE-17-CS	2,2',4-TriBDE	17	50 µg/mL in nonane	1.2 mL	¥70,000
BDE-25-CS	2,3',4-TriBDE	25	50 µg/mL in nonane	1.2 mL	¥70,000
BDE-28-CS	2,4,4'-TriBDE	28	50 µg/mL in nonane	1.2 mL	¥70,000
BDE-30-CS	2,4,6-TriBDE	30	50 µg/mL in nonane	1.2 mL	¥70,000
BDE-32-CS	2,4',6-TriBDE	32	50 µg/mL in nonane	1.2 mL	¥70,000
BDE-33-CS	2',3,4-TriBDE	33	50 µg/mL in nonane	1.2 mL	¥70,000
BDE-35-CS	3,3',4-TriBDE	35	50 µg/mL in nonane	1.2 mL	¥70,000
BDE-37-CS	3,4,4'-TriBDE	37	50 µg/mL in nonane	1.2 mL	¥70,000
BDE-47-CS	2,2',4,4'-TetraBDE	47	50 µg/mL in nonane	1.2 mL	¥70,000
BDE-49-CS	2,2',4,5'-TetraBDE	49	50 µg/mL in nonane	1.2 mL	¥70,000
BDE-51-CS	2,2',4,6'-TetraBDE	51	50 µg/mL in nonane	1.2 mL	¥70,000
BDE-66-CS	2,3',4,4'-TetraBDE	66	50 µg/mL in nonane	1.2 mL	¥70,000
BDE-71-CS	2,3',4',6-TetraBDE	71	50 µg/mL in nonane	1.2 mL	¥70,000
BDE-75-CS	2,4,4',6-TetraBDE	75	50 µg/mL in nonane	1.2 mL	¥70,000
BDE-77-CS	3,3',4,4'-TetraBDE	77	50 µg/mL in nonane	1.2 mL	¥70,000
BDE-79-CS	3,3',4,5'-TetraBDE	79	50 µg/mL in nonane	1.2 mL	¥70,000
BDE-85-CS	2,2',3,4,4'-PentaBDE	85	50 µg/mL in nonane	1.2 mL	¥70,000
BDE-99-CS	2,2',4,4',5-PentaBDE	99	50 µg/mL in nonane	1.2 mL	¥70,000
BDE-100-CS	2,2',4,4',6-PentaBDE	100	50 µg/mL in nonane	1.2 mL	¥70,000
BDE-105-CS	2,3,3',4,4'-PentaBDE	105	50 µg/mL in nonane	1.2 mL	¥70,000
BDE-116-CS	2,3,4,5,6-PentaBDE	116	50 µg/mL in nonane	1.2 mL	¥70,000
BDE-118-CS	2,3',4,4',5-PentaBDE	118	50 µg/mL in nonane	1.2 mL	¥70,000
BDE-119-CS	2,3',4,4',6-PentaBDE	119	50 µg/mL in nonane	1.2 mL	¥70,000
BDE-120-CS	2,3',4,5,5'-PentaBDE	120	50 µg/mL in nonane	1.2 mL	¥70,000
BDE-126-CS	3,3',4,4',5-PentaBDE	126	50 µg/mL in nonane	1.2 mL	¥70,000
BDE-128-CS	2,2',3,3',4,4'-HexaBDE	128	50 µg/mL in nonane	1.2 mL	¥70,000
BDE-138-CS	2,2',3,4,4',5'-HexaBDE	138	50 µg/mL in nonane	1.2 mL	¥70,000
BDE-139-CS	2,2',3,4,4',6-HexaBDE	139	50 µg/mL in nonane	1.2 mL	¥70,000
BDE-140-CS	2,2',3,4,4',6'-HexaBDE	140	50 µg/mL in nonane	1.2 mL	¥70,000
BDE-148-CS	2,2',3,4',5,6'-HexaBDE	148	50 µg/mL in nonane	1.2 mL	¥70,000
BDE-153-CS	2,2',4,4',5,5'-HexaBDE	153	50 µg/mL in nonane	1.2 mL	¥70,000
BDE-154-CS	2,2',4,4',5,6'-HexaBDE	154	50 µg/mL in nonane	1.2 mL	¥70,000
BDE-155-CS	2,2',4,4',6,6'-HexaBDE	155	50 µg/mL in nonane	1.2 mL	¥70,000
BDE-166-CS	2,3,4,4',5,6-HexaBDE	166	50 µg/mL in nonane	1.2 mL	¥70,000
BDE-175-CS	2,2',3,3',4,5',6-HeptaBDE	175	50 µg/mL in nonane	1.2 mL	¥81,000
BDE-181-CS	2,2',3,4,4',5,6-HeptaBDE	181	50 µg/mL in nonane	1.2 mL	¥81,000
BDE-183-CS	2,2',3,4,4',5',6-HeptaBDE	183	50 µg/mL in nonane	1.2 mL	¥81,000
BDE-190-CS	2,3,3',4,4',5,6-HeptaBDE	190	50 µg/mL in nonane	1.2 mL	¥81,000
BDE-196-CS	2,2',3,3',4,4',5,6'-OctaBDE	196	50 µg/mL in nonane	1.2 mL	¥82,000
BDE-197-CS	2,2',3,3',4,4',6,6'-OctaBDE	197	50 µg/mL in nonane	1.2 mL	¥81,000
BDE-203-CS	2,2',3,4,4',5,5',6-OctaBDE	203	50 µg/mL in nonane	1.2 mL	¥81,000
BDE-204-CS	2,2',3,4,4',5,6,6'-OctaBDE	204	50 µg/mL in nonane	1.2 mL	¥81,000
BDE-205-CS	2,3,3',4,4',5,5',6-OctaBDE	205	50 µg/mL in nonane	1.2 mL	¥81,000
BDE-206-CS	2,2',3,3',4,4',5,5',6-NonaBDE	206	50 µg/mL in nonane	1.2 mL	¥81,000
BDE-207-CS	2,2',3,3',4,4',5,6,6'-NonaBDE	207	50 µg/mL in nonane	1.2 mL	¥81,000
BDE-208-CS	2,2',3,3',4,5,5',6,6'-NonaBDE	208	50 µg/mL in nonane	1.2 mL	¥81,000
BDE-209-CS	DecaBDE	209	50 µg/mL in nonane	1.2 mL	¥70,000









**Brominated Flame Retardant Standard Mixtures**

Catalog No.	Description	Unit Size	Price(¥)
EO-5320-A	CDC BFR Spiking Standard	10 mL in methanol	¥280,800
EO-5320-200X-1.2	CDC BFR Spiking Standard	1.2 mL in nonane/toluene	¥932,400

Labeled	Congener	EO-5320-A	EO-5320-200X-1.2
		(ng/mL)	(ng/mL)
2,4,4'-TriBDE ( <sup>13</sup> C <sub>12</sub> , 99%)	28	7.5	1500
2,2',4,4'-TetraBDE ( <sup>13</sup> C <sub>12</sub> , 99%)	47	7.5	1500
2,2',4,4',5-PentaBDE ( <sup>13</sup> C <sub>12</sub> , 99%)	99	7.5	1500
2,2',4,4',6-PentaBDE ( <sup>13</sup> C <sub>12</sub> , 99%)	100	7.5	1500
2,2',4,4',5,5'-HexaBDE ( <sup>13</sup> C <sub>12</sub> , 99%)	153	7.5	1500
2,2',4,4',5,6'-HexaBDE ( <sup>13</sup> C <sub>12</sub> , 99%)	154	7.5	1500
2,2',3,4,4',5',6-HeptaBDE ( <sup>13</sup> C <sub>12</sub> , 99%)	183	7.5	1500
2,2',3,3',4,4',6,6'-OctaBDE ( <sup>13</sup> C <sub>12</sub> , 99%)	197	7.5	1500
2,2',3,4,4',5,5',6-OctaBDE ( <sup>13</sup> C <sub>12</sub> , 99%)	203	7.5	1500
2,2',3,3',4,4',5,5',6-NonaBDE ( <sup>13</sup> C <sub>12</sub> , 99%)	206	7.5	1500
2,2',3,3',4,4',5,6,6'-NonaBDE ( <sup>13</sup> C <sub>12</sub> , 99%)	207	7.5	1500
2,2',3,3',4,5,5',6,6'-NonaBDE ( <sup>13</sup> C <sub>12</sub> , 99%)	208	7.5	1500
DecaBDE ( <sup>13</sup> C <sub>12</sub> , 99%)	209	50	10,000
2,2',4,4',5,5'-HexaBB ( <sup>13</sup> C <sub>12</sub> , 99%)	PBB-153	7.5	1500
Hexabromobenzene ( <sup>13</sup> C <sub>6</sub> , 99%)		7.5	1500
1,2-Bis(pentabromophenyl)ethane ( <sup>13</sup> C <sub>14</sub> , 99%)		7.5	1500
1,2-Bis(2,4,6-tribromophenoxy)ethane ( <sup>13</sup> C <sub>12</sub> , 99%)		7.5	1500
λ-Hexabromocyclododecane ( <sup>13</sup> C <sub>12</sub> , 99%)		7.5	1500

EO-5169	BFR Recovery Spiking Solution	10 mL in 88% hexane/ 2% dodecane/10% nonane	お問い合わせ
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Labeled	Congener	(ng/mL)
1,2,3,4-TetraCDD ( <sup>13</sup> C <sub>6</sub> , 99%)		2.5
3,3',4,4'-TetraBDE ( <sup>13</sup> C <sub>12</sub> , 99%)	77	7.5
2,2',3,4,4',6-HexaBDE ( <sup>13</sup> C <sub>12</sub> , 99%)	139	7.5
2,2',3,3',4,5,5',6,6'-NonaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	208	10

EO-5617	BFR PAR Solution	1.2 mL in nonane	¥215,200
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Unlabeled	BDE	(ng/mL)
2,2',4-TriBDE	17	1000
2,4,4'-TriBDE	28	1000
2,2',4,4'-TetraBDE	47	1000
2,3',4,4'-TetraBDE	66	1000
2,2',3,4,4'-PentaBDE	85	1000
2,2',4,4',5-PentaBDE	99	1000
2,2',4,4',6-PentaBDE	100	1000
2,2',4,4',5,5'-HexaBDE	153	1000
2,2',4,4',5,6'-HexaBDE	154	1000
2,2',3,4,4',5',6-HeptaBDE	183	1000
2,2',3,3',4,4',5,6'-OctaBDE	196	1000
2,2',3,3',4,4',6,6'-OctaBDE	197	1000
2,2',3,4,4',5,5',6-OctaBDE	203	1000
2,2',3,3',4,4',5,5',6-NonaBDE	206	1000
2,2',3,3',4,4',5,6,6'-NonaBDE	207	1000
2,2',3,3',4,5,5',6,6'-NonaBDE	208	1000
DecaBDE	209	1000
2,2',4,4',5,5'-HexaBB	PBB-153	1000
Hexabromobenzene		1000
1,2-Bis(pentabromophenyl)ethane		1000
1,2-Bis(2,4,6-tribromophenoxy)ethane		1000
λ-Hexabromocyclododecane		1000

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**Isotope-Labeled and Unlabeled Brominated Diphenyl Ether (BDE) Metabolites**

Catalog No.	Compound	Concentration	Unit Size	Price(¥)
<b>Hydroxybrominated Diphenyl Ethers (OH-BDE)</b>				
OHBDE-5190-1.2	6-Hydroxy-2,2',4,4'-tetraBDE (ring- <sup>13</sup> C <sub>12</sub> , 99%) CP 92%	50 µg/mL in toluene	1.2 mL	¥355,200
OHBDE-5206-1.2	6-Hydroxy-2,2',4,4'-tetraBDE (unlabeled)	50 µg/mL in nonane	1.2 mL	¥185,000
OHBDE-5191-1.2	2-Hydroxy-2',4,4',5',6-pentaBDE (ring- <sup>13</sup> C <sub>12</sub> , 99%) CP 94%	50 µg/mL in toluene	1.2 mL	¥355,200
OHBDE-5212-1.2	4'-Hydroxy-2,2',4,5'-tetraBDE (unlabeled)	50 µg/mL in nonane	1.2 mL	¥185,000
OHBDE-5228-1.2	6-Hydroxy-2,2',4,4',5-pentaBDE (unlabeled)	50 µg/mL in nonane	1.2 mL	¥185,000
<b>Methoxybrominated Diphenyl Ethers (MeO-BDE)</b>				
MEOBDE-5153-1.2	2'-Methoxy-2,3',4,5'-tetraBDE (unlabeled)	50 µg/mL in nonane	1.2 mL	¥176,000
MEOBDE-5207-1.2	3-Methoxy-2,2',4,4'-tetraBDE (unlabeled)	50 µg/mL in nonane	1.2 mL	¥176,000
MEOBDE-5203-1.2	4-Methoxy-2,2',3,4'-tetraBDE (unlabeled)	50 µg/mL in nonane	1.2 mL	¥176,000
MEOBDE-5211-1.2	4'-Methoxy-2,2',4,5'-tetraBDE (unlabeled)	50 µg/mL in nonane	1.2 mL	¥176,000
MEOBDE-5209-1.2	5-Methoxy-2,2',4,4'-tetraBDE (unlabeled)	50 µg/mL in nonane	1.2 mL	¥176,000
MEOBDE-5260-1.2	6-Methoxy-2,2',4,4'-tetraBDE (ring- <sup>13</sup> C <sub>12</sub> , 99%)	50 µg/mL in nonane	1.2 mL	¥355,200
MEOBDE-5205-1.2	6-Methoxy-2,2',4,4'-tetraBDE (unlabeled)	50 µg/mL in nonane	1.2 mL	¥176,000
MEOBDE-5227-1.2	6-Methoxy-2,2',4,4',5-pentaBDE (unlabeled)	50 µg/mL in nonane	1.2 mL	¥176,000

**Polybrominated Biphenyl Ether (PBB) Standards**

Catalog No.	Compound	PBB	Concentration	Unit Size	Price(¥)
EB-5055	3,3',4,4'-Tetrabromobiphenyl ( <sup>13</sup> C <sub>12</sub> , 99%)	77	40 µg/mL in nonane	3 mL	¥296,800
PBB-77-CS	3,3',4,4'-Tetrabromobiphenyl certified standard (unlabeled)	77	100 µg/mL in isooctane	1.2 mL	¥59,000
EB-5056	3,3',4,4',5-Pentabromobiphenyl ( <sup>13</sup> C <sub>12</sub> , 99%)	126	40 µg/mL in nonane	3 mL	¥296,800
PBB-126	3,3',4,4',5-Pentabromobiphenyl (unlabeled)	126	100 µg/mL in isooctane	1.2 mL	¥59,000
EB-5162	2,2',4,4',5,5'-Hexabromobiphenyl ( <sup>13</sup> C <sub>12</sub> , 99%)	153	40 µg/mL in nonane	3 mL	¥296,800
PBB-153-CS	2,2',4,4',5,5'-Hexabromobiphenyl certified standard (unlabeled)	153	100 µg/mL in isooctane	1.2 mL	¥59,000
EB-5106	2,3,3',4,4',5'-Hexabromobiphenyl ( <sup>13</sup> C <sub>12</sub> , 99%)	157	40 µg/mL in nonane	3 mL	¥296,800
PBB-157-CS	2,3,3',4,4',5'-Hexabromobiphenyl certified standard (unlabeled)	157	100 µg/mL in isooctane	1.2 mL	¥59,000
EB-5439	Decabromobiphenyl ( <sup>13</sup> C <sub>12</sub> , 99%)	209	40 µg/mL in nonane	3 mL	¥296,800
PBB-209-CS	Decabromobiphenyl certified standard (unlabeled)	209	100 µg/mL in isooctane	1.2 mL	¥59,000

Chemical purity (CP) is 98% or greater, unless indicated otherwise.



# Glyphosate, Glufosinate, and Dicamba

## Featured Products

Catalog No.	Description	Concentration	Amount	Price(¥)
CNLM-6792-1.2	Glyphosate ( <sup>13</sup> C <sub>3</sub> , 99%; <sup>15</sup> N, 98%) CP 95%	100 µg/mL in water	1.2 mL	¥153,600
CNLM-4666-1.2	Glyphosate (2- <sup>13</sup> C, 99%; <sup>15</sup> N, 98%) CP 96%	100 µg/mL in water	1.2 mL	¥138,400
CNLM-4666-10	Glyphosate (2- <sup>13</sup> C, 99%; <sup>15</sup> N, 98%) CP 96%	100 µg/mL in water	10 mL	¥492,000
CNLM-4666-10X-1.2	Glyphosate (2- <sup>13</sup> C, 99%; <sup>15</sup> N, 98%) CP 96%	1000 µg/mL in water	1.2 mL	¥451,600
ULM-6876-1.2	Glyphosate (unlabeled)	100 µg/mL in water	1.2 mL	¥35,400
<b>NEW!</b> DLM-11078-1.2	DL-Glufosinate-HCl (2,3,3,4,4-D <sub>5</sub> , methyl-D <sub>3</sub> , 98%)	100 µg/mL in water	1.2 mL	¥131,800
<b>NEW!</b> ULM-11153-1.2	Glufosinate (unlabeled), ammonium salt	100 µg/mL in water	1.2 mL	¥35,600
CLM-9914-1.2	Dicamba (ring- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in methanol	1.2 mL	¥180,000
ULM-9911-1.2	Dicamba (unlabeled)	100 µg/mL in methanol	1.2 mL	¥35,400
<b>Glyphosate Metabolites</b>				
CDNLM-6786-1.2	Aminomethylphosphonic acid (AMPA) ( <sup>13</sup> C, 99%; <sup>15</sup> N, 98%; methylene-D <sub>2</sub> , 98%)	100 µg/mL in water	1.2 mL	¥194,000
CDNLM-6786-10	Aminomethylphosphonic acid (AMPA) ( <sup>13</sup> C, 99%; <sup>15</sup> N, 98%; methylene-D <sub>2</sub> , 98%)	100 µg/mL in water	10 mL	¥859,400
ULM-10880-1.2	Aminomethylphosphonic acid (AMPA) (unlabeled)	100 µg/mL in water	1.2 mL	¥35,600
<b>Dicamba Metabolites</b>				
CLM-9915-1.2	5-Hydroxydicamba (2-Methoxy-3,6-dichloro-5-hydroxybenzoic acid) (ring- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in methanol	1.2 mL	¥216,600
ULM-9912-1.2	5-Hydroxydicamba (2-Methoxy-3,6-dichloro-5-hydroxybenzoic acid) (unlabeled)	100 µg/mL in methanol	1.2 mL	¥46,800
CLM-9916-A-1.2	3,6-Dichlorosalicylic acid (DCSA) (ring- <sup>13</sup> C <sub>6</sub> , 99%) CP 95%	100 µg/mL in acetonitrile	1.2 mL	¥178,400
ULM-9910-A-1.2	3,6-Dichlorosalicylic acid (DCSA) (unlabeled)	100 µg/mL in acetonitrile	1.2 mL	¥35,400
CLM-9917-1.2	3,6-Dichlorogentisic acid (DCGA) (ring- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in methanol	1.2 mL	¥243,200
ULM-9913-1.2	3,6-Dichlorogentisic acid (DCGA) (unlabeled)	100 µg/mL in methanol	1.2 mL	¥46,800
ULM-10494-1.2	Dicamba methyl ester (unlabeled)	100 µg/mL in methanol	1.2 mL	¥45,200

Continued ▶

## Related Products

Catalog No.	Description	Concentration	Amount	Price(¥)
CLM-4546-1.2	Acetochlor (ring- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in acetonitrile	1.2 mL	¥206,800
ULM-9824-1.2	Acetochlor (unlabeled)	100 µg/mL in acetonitrile	1.2 mL	¥35,400
CLM-3737-1.2	Atrazine (ring- <sup>13</sup> C <sub>3</sub> , 99%)	100 µg/mL in nonane	1.2 mL	¥107,000
CLM-3737-MT-1.2	Atrazine (ring- <sup>13</sup> C <sub>3</sub> , 99%)	100 µg/mL in MTBE	1.2 mL	¥108,400
ULM-7235-1.2	Atrazine (unlabeled)	100 µg/mL in nonane	1.2 mL	¥35,400
CLM-1858-1.2	2,4-Dichlorophenoxyacetic acid (2,4-D) (ring- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in acetonitrile	1.2 mL	¥143,400
ULM-7418-1.2	2,4-Dichlorophenoxyacetic acid (2,4-D) (unlabeled)	100 µg/mL in acetonitrile	1.2 mL	¥35,400
CLM-6758-1.2	4-Chloro-2-methylphenoxyacetic acid (MCPA) (ring- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in acetonitrile	1.2 mL	¥138,400
ULM-10731-1.2	4-Chloro-2-methylphenoxyacetic acid (MCPA) (unlabeled)	100 µg/mL in acetonitrile	1.2 mL	¥33,400
<b>NEW!</b> CLM-6759	[4-Chloro-2-(hydroxymethyl)phenoxy]acetic acid (HMCPA) (ring- <sup>13</sup> C <sub>6</sub> , 99%)		Inquire	お問い合わせ
<b>NEW!</b> CLM-6760	[4-Chloro-2-(methoxymethyl)phenoxy]acetic acid (HMCPA MME) (ring- <sup>13</sup> C <sub>6</sub> , 99%)		Inquire	お問い合わせ
CLM-3712-1.2	Metolachlor (ring- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in nonane	1.2 mL	¥251,800
ULM-7314-1.2	Metolachlor (unlabeled)	100 µg/mL in nonane	1.2 mL	¥35,400





## Nitrosamines

## Featured Products

Catalog No.	Description	Concentration	Amount	Price(¥)
CDLM-7279-S	<i>N</i> -Nitrosodimethylamine (NDMA) ( <sup>13</sup> C <sub>2</sub> , 99%; D <sub>6</sub> , 98%)	1 mg/mL in methylene chloride-D <sub>2</sub>	1 mL	¥94,000
DLM-2130-S	<i>N</i> -Nitrosodimethylamine (NDMA) (D <sub>6</sub> , 98%)	1 mg/mL in methylene chloride-D <sub>2</sub>	1 mL	¥55,600
NLM-7647-S	<i>N</i> -Nitrosodimethylamine (NDMA) ( <sup>15</sup> N <sub>2</sub> , 98%)	1 mg/mL in methylene chloride	1 mL	¥101,000
ULM-9042-S	<i>N</i> -Nitrosodimethylamine (NDMA) (unlabeled)	1 mg/mL in methylene chloride	1 mL	¥27,200
DLM-7982-S	<i>N</i> -Nitrosodiethylamine (NDEA) (D <sub>10</sub> , 98%)	1 mg/mL in methylene chloride-D <sub>2</sub>	1 mL	¥55,600
ULM-7984-1.2	<i>N</i> -Nitrosodiethylamine (NDEA) (unlabeled)	1 mg/mL in methylene chloride	1.2 mL	¥27,200
CLM-10856-1.2	<i>N</i> -Nitroso- <i>N</i> -methyl-4-aminobutyric acid (NMBA) (1,2,3,4- <sup>13</sup> C <sub>4</sub> , 99%) CP 95%	1 mg/mL in methylene chloride	1.2 mL	¥104,600
ULM-10857-1.2	<i>N</i> -Nitroso- <i>N</i> -methyl-4-aminobutyric acid (NMBA) (unlabeled)	1 mg/mL in methylene chloride	1.2 mL	¥27,200

## Related Products

Catalog No.	Description	Concentration	Amount	Price(¥)
DLM-3098-S	<i>N</i> -Nitrosodiphenylamine (2,2',4,4',6,6'-D <sub>6</sub> , 96%)	1 mg/mL in methylene chloride-D <sub>2</sub>	1 mL	¥55,600
ULM-7219-1.2	<i>N</i> -Nitrosodiphenylamine (unlabeled)	1 mg/mL in methylene chloride	1.2 mL	¥27,200
DLM-2131-S	<i>N</i> -Nitroso-di- <i>n</i> -propylamine (D <sub>14</sub> , 98%)	1 mg/mL in methylene chloride-D <sub>2</sub>	1 mL	¥55,600
ULM-6637-S	<i>N</i> -Nitroso-di- <i>n</i> -propylamine (unlabeled)	1 mg/mL in methylene chloride	1 mL	¥27,200
<b>NEW!</b> DLM-11196-1.2	<i>N</i> -Nitroso-di- <i>n</i> -butylamine (D <sub>18</sub> , 98%)	1 mg/mL in methylene chloride-D <sub>2</sub>	1.2 mL	¥91,200
<b>NEW!</b> ULM-11198-1.2	<i>N</i> -Nitroso-di- <i>n</i> -butylamine (unlabeled)	1 mg/mL in methylene chloride	1.2 mL	¥35,600
DLM-8254-1.2	<i>N</i> -Nitrosomorpholine (D <sub>8</sub> , 98%)	1 mg/mL in methylene chloride-D <sub>2</sub>	1.2 mL	¥94,400
ULM-8255-1.2	<i>N</i> -Nitrosomorpholine (unlabeled) CP 96%	1 mg/mL in methylene chloride	1.2 mL	¥35,600
DLM-8252-1.2	<i>N</i> -Nitrosopyrrolidine (D <sub>8</sub> , 98%)	1 mg/mL in methylene chloride-D <sub>2</sub>	1.2 mL	¥94,400
ULM-8253-1.2	<i>N</i> -Nitrosopyrrolidine (unlabeled)	1 mg/mL in methylene chloride	1.2 mL	¥35,600
<b>NEW!</b> DLM-11195-1.2	<i>N</i> -Nitrosopiperidine (D <sub>10</sub> , 98%)	1 mg/mL in methylene chloride-D <sub>2</sub>	1.2 mL	¥91,200
<b>NEW!</b> ULM-11197-1.2	<i>N</i> -Nitrosopiperidine (unlabeled)	1 mg/mL in methylene chloride	1.2 mL	¥35,600
<b>NEW!</b> DLM-12279-1.2	<i>N</i> -Nitrosomethylethylamine (D <sub>3</sub> , 98%)	1 mg/mL in methylene chloride-D <sub>2</sub>	1.2 mL	¥91,200
<b>NEW!</b> ULM-12280-1.2	<i>N</i> -Nitrosomethylethylamine (unlabeled) CP 95%	1 mg/mL in methylene chloride	1.2 mL	¥33,800
DLM-10526-1.2	<i>N</i> -Nitroso- <i>N</i> -methylethanolamine (1,1,2,2-D <sub>4</sub> , methyl-D <sub>3</sub> , 98%)	5 mg/mL in methanol	1.2 mL	¥291,000
ULM-10528-1.2	<i>N</i> -Nitroso- <i>N</i> -methylethanolamine (unlabeled)	5 mg/mL in methanol	1.2 mL	¥64,000
DLM-7779-S	<i>N</i> -Nitrodimethylamine (D <sub>6</sub> , 98%)	1 mg/mL in methylene chloride-D <sub>2</sub>	1 mL	¥109,400
ULM-7780-S	<i>N</i> -Nitrodimethylamine (unlabeled)	1 mg/mL in methylene chloride	1 mL	¥54,000

Please see CIL's *TSNA Spotlight* for information about tobacco-specific nitrosamines (TSNA).

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Catalog No.	Description	Amount	Price(¥)
<b>NEW!</b> ES-5652	Method 521 Nitrosamine Surrogate Mixture	1.2 mL in methylene chloride-D <sub>2</sub>	¥249,400
	<b>Labeled</b> (µg/mL)		
	<i>N</i> -Nitrosodimethylamine (D <sub>6</sub> , 98%)	100	
	<i>N</i> -Nitrosomethylethylamine (D <sub>3</sub> , 98%)	100	
	<i>N</i> -Nitrosodiethylamine (D <sub>10</sub> , 98%)	100	
	<i>N</i> -Nitroso-di- <i>n</i> -propylamine (D <sub>14</sub> , 98%)	100	
	<i>N</i> -Nitroso-di- <i>n</i> -butylamine (D <sub>18</sub> , 98%)	100	
	<i>N</i> -Nitrosopyrrolidine (D <sub>8</sub> , 98%)	100	
	<i>N</i> -Nitrosopiperidine (D <sub>10</sub> , 98%)	100	
<b>NEW!</b> ES-5653	Method 521 Nitrosamine Analyte PDS Mixture	1.2 mL in methylene chloride	¥125,800
	<b>Unlabeled</b> (µg/mL)		
	<i>N</i> -Nitrosodimethylamine	100	
	<i>N</i> -Nitrosomethylethylamine	100	
	<i>N</i> -Nitrosodiethylamine	100	
	<i>N</i> -Nitroso-di- <i>n</i> -propylamine	100	
	<i>N</i> -Nitroso-di- <i>n</i> -butylamine	100	
	<i>N</i> -Nitrosopyrrolidine	100	
	<i>N</i> -Nitrosopiperidine	100	
<b>NEW!</b> ES-5650	Deuterated Nitrosamines Standard Mixture	5 mL in methylene chloride-D <sub>2</sub>	¥299,800
	<b>Labeled</b> (µg/mL)		
	<i>N</i> -Nitrosodimethylamine (D <sub>6</sub> , 98%)	10	
	<i>N</i> -Nitrosomethylethylamine (D <sub>3</sub> , 98%)	10	
	<i>N</i> -Nitrosodiethylamine (D <sub>10</sub> , 98%)	10	
	<i>N</i> -Nitroso-di- <i>n</i> -propylamine (D <sub>14</sub> , 98%)	10	
	<i>N</i> -Nitroso-di- <i>n</i> -butylamine (D <sub>18</sub> , 98%)	10	
	<i>N</i> -Nitrosopyrrolidine (D <sub>8</sub> , 98%)	10	
	<i>N</i> -Nitrosopiperidine (D <sub>10</sub> , 98%)	10	
	<i>N</i> -Nitrosomorpholine (D <sub>8</sub> , 98%)	10	
<b>NEW!</b> ES-5651	Nitrosamines Native Standard Mixture	5 mL in methylene chloride	¥149,200
	<b>Unlabeled</b> (µg/mL)		
	<i>N</i> -Nitrosodimethylamine	10	
	<i>N</i> -Nitrosomethylethylamine	10	
	<i>N</i> -Nitrosodiethylamine	10	
	<i>N</i> -Nitroso-di- <i>n</i> -propylamine	10	
	<i>N</i> -Nitroso-di- <i>n</i> -butylamine	10	
	<i>N</i> -Nitrosopyrrolidine	10	
	<i>N</i> -Nitrosopiperidine	10	
	<i>N</i> -Nitrosomorpholine	10	



# Nonylphenol, Nonylphenol Ethoxylates, and Octylphenol

## Nonylphenol (NP)

Catalog No.	Description	Concentration	Amount	Price(¥)
CLM-4306-1.2	<i>p-n</i> -Nonylphenol (ring- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in nonane	1.2 mL	¥169,000
CLM-4306-M-1.2	<i>p-n</i> -Nonylphenol (ring- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in methanol	1.2 mL	¥169,000
DLM-10925-M-1.2	<i>p-n</i> -Nonylphenol (ring-D <sub>4</sub> , OD, 98%)	100 µg/mL in methanol-OD	1.2 mL	¥133,000
ULM-4559-1.2	<i>p-n</i> -Nonylphenol (unlabeled)	100 µg/mL in nonane	1.2 mL	¥47,400
ULM-4559-M-1.2	<i>p-n</i> -Nonylphenol (unlabeled)	100 µg/mL in methanol	1.2 mL	¥47,400
ULM-6560-1.2	<i>p</i> -Nonylphenol (unlabeled) (technical grade)	100 µg/mL in nonane	1.2 mL	¥47,400
CLM-8356-1.2	4-(1,3-Dimethyl-1-ethylpentyl) phenol (ring- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in methanol	1.2 mL	¥182,000
ULM-8360-1.2	4-(1,3-Dimethyl-1-ethylpentyl) phenol (unlabeled)	100 µg/mL in methanol	1.2 mL	¥64,000
CLM-8357-1.2	4-(1,4-Dimethyl-1-ethylpentyl) phenol (ring- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in methanol	1.2 mL	¥182,000
ULM-8361-1.2	4-(1,4-Dimethyl-1-ethylpentyl) phenol (unlabeled)	100 µg/mL in methanol	1.2 mL	¥64,000
CLM-8359-1.2	4-(1-Ethyl-1-methylhexyl) phenol (ring- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in methanol	1.2 mL	¥182,000
ULM-8363-1.2	4-(1-Ethyl-1-methylhexyl) phenol (unlabeled)	100 µg/mL in methanol	1.2 mL	¥64,000
CLM-8358-1.2	4-(1,1,5-Trimethylhexyl) phenol (ring- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in methanol	Inquire	¥182,000
ULM-8362-1.2	4-(1,1,5-Trimethylhexyl) phenol (unlabeled)	100 µg/mL in methanol	1.2 mL	¥64,000
CLM-10452-1.2	4- <i>tert</i> -Octylphenol (ring- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in methanol	1.2 mL	¥173,400
ULM-10443-1.2	4- <i>tert</i> -Octylphenol (unlabeled)	100 µg/mL in methanol	1.2 mL	¥47,400

Continued ▶

## Nonylphenol Ethoxylates (NPEs)

Catalog No.	Description	Concentration	Amount	Price(¥)
CLM-4512-1.2	<i>p-n</i> -Nonylphenol monoethoxylate (ring- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in nonane	1.2 mL	¥187,000
CLM-4512-M-1.2	<i>p-n</i> -Nonylphenol monoethoxylate (ring- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in methanol	1.2 mL	¥187,000
ULM-4520-1.2	<i>p-n</i> -Nonylphenol monoethoxylate (unlabeled)	100 µg/mL in nonane	1.2 mL	¥47,400
ULM-4520-M-1.2	<i>p-n</i> -Nonylphenol monoethoxylate (unlabeled)	100 µg/mL in methanol	1.2 mL	¥47,400
ULM-4520-SA-5X-1.2	<i>p-n</i> -Nonylphenol monoethoxylate (unlabeled)	500 µg/mL in acetonitrile	1.2 mL	¥128,000
ULM-7146-1.2	Nonylphenol monoethoxylate (unlabeled) (branched isomers)	100 µg/mL in nonane	1.2 mL	¥71,000
CLM-4307-1.2	<i>p-n</i> -Nonylphenol diethoxylate (ring- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in nonane	1.2 mL	¥187,000
CLM-4307-M-1.2	<i>p-n</i> -Nonylphenol diethoxylate (ring- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in methanol	1.2 mL	¥187,000
ULM-4521-1.2	<i>p-n</i> -Nonylphenol diethoxylate (unlabeled)	100 µg/mL in nonane	1.2 mL	¥82,600
ULM-4521-M-1.2	<i>p-n</i> -Nonylphenol diethoxylate (unlabeled)	100 µg/mL in methanol	1.2 mL	¥82,600
ULM-4521-SA-5X-1.2	<i>p-n</i> -Nonylphenol diethoxylate (unlabeled)	500 µg/mL in acetonitrile	1.2 mL	¥128,000
ULM-7147-1.2	Nonylphenol diethoxylate (unlabeled) (branched isomers)	100 µg/mL in nonane	1.2 mL	¥82,600
CLM-4516-1.2	<i>p-n</i> -Nonylphenol triethoxylate (ring- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in nonane	1.2 mL	¥187,000
<b>NEW!</b> ULM-11147-1.2	<i>p-n</i> -Nonylphenol triethoxylate (unlabeled)	100 µg/mL in nonane	1.2 mL	¥81,000

## Kit

Catalog No.	Description	Concentration	Amount	Price(¥)
ES-4157	Set of <i>p-n</i> -nonylphenol + mono/di/triethoxylates (ring- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in nonane	4 x 1.2 mL	¥610,400

Kit includes 1 each CLM-4306-1.2, CLM-4307-1.2, CLM-4512-1.2, CLM-4516-1.2.

## EPA Method 559 Standards

### Analyte Standard Stock Solution (SSS)

Catalog No.	Description	Concentration	Amount	Price(¥)
ULM-6560-1.2	<i>p</i> -Nonylphenol (unlabeled) (technical grade)	100 µg/mL in nonane	1.2 mL	¥47,400
ULM-10443-1.2	4- <i>tert</i> -Octylphenol (unlabeled)	100 µg/mL in methanol	1.2 mL	¥47,400

### Surrogate Standard Stock Solution (SUR SSS)

Catalog No.	Description	Concentration	Amount	Price(¥)
CLM-10452-1.2	4- <i>tert</i> -Octylphenol (ring- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in methanol	1.2 mL	¥173,400

### Internal Standard Stock Solution (IS SSS)

Catalog No.	Description	Concentration	Amount	Price(¥)
CLM-8356-1.2	4-(1,3-Dimethyl-1-ethylpentyl) phenol (ring- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in methanol	1.2 mL	¥182,000

### Nonylphenoxy Carboxylic Acid Interference Solution (ISSS)

Catalog No.	Description	Concentration	Amount	Price(¥)
ULM-4690-1.2	<i>p-n</i> -Nonylphenoxyethoxyacetic acid (unlabeled)	100 µg/mL in nonane	1.2 mL	¥82,600
ULM-4688-1.2	Nonylphenoxyacetic acid (unlabeled) (ring/chain isomers)	100 µg/mL in nonane	1.2 mL	¥71,000



# Parabens

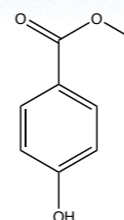
## Featured Products

Catalog No.	Description	Concentration	Amount	Price(¥)
CLM-8249-1.2	Methyl paraben (methyl 4-hydroxybenzoate) (ring- <sup>13</sup> C <sub>6</sub> , 99%)	1 mg/mL in methanol	1.2 mL	¥131,400
<b>NEW!</b> DLM-10921-1.2	Methyl paraben (methyl 4-hydroxybenzoate) (ring-D <sub>4</sub> , 98%)	1 mg/mL in methanol-OD	1.2 mL	¥111,000
ULM-8250-1.2	Methyl paraben (methyl 4-hydroxybenzoate) (unlabeled)	1 mg/mL in methanol	1.2 mL	¥35,600
CLM-9761-1.2	Ethyl paraben (ethyl 4-hydroxybenzoate) (ring- <sup>13</sup> C <sub>6</sub> , 99%)	1 mg/mL in methanol	1.2 mL	¥133,000
ULM-9760-1.2	Ethyl paraben (ethyl 4-hydroxybenzoate) (unlabeled)	1 mg/mL in methanol	1.2 mL	¥35,600
CLM-9763-1.2	<i>n</i> -Propyl paraben ( <i>n</i> -propyl 4-hydroxybenzoate) (ring- <sup>13</sup> C <sub>6</sub> , 99%)	1 mg/mL in methanol	1.2 mL	¥141,000
<b>NEW!</b> DLM-10922-1.2	<i>n</i> -Propyl paraben ( <i>n</i> -propyl 4-hydroxybenzoate) (ring-D <sub>4</sub> , 98%)	1 mg/mL in methanol-OD	1.2 mL	¥119,600
ULM-9762-1.2	<i>n</i> -Propyl paraben ( <i>n</i> -propyl 4-hydroxybenzoate) (unlabeled)	1 mg/mL in methanol	1.2 mL	¥35,600
CLM-9845-1.2	Isopropyl paraben (isopropyl 4-hydroxybenzoate) (ring- <sup>13</sup> C <sub>6</sub> , 99%)	1 mg/mL in methanol	1.2 mL	¥144,600
ULM-9846-1.2	Isopropyl paraben (isopropyl 4-hydroxybenzoate) (unlabeled)	1 mg/mL in methanol	1.2 mL	¥35,600
CLM-8285-1.2	<i>n</i> -Butyl paraben ( <i>n</i> -butyl 4-hydroxybenzoate) (ring- <sup>13</sup> C <sub>6</sub> , 99%)	1 mg/mL in methanol	1.2 mL	¥144,600
ULM-8287-1.2	<i>n</i> -Butyl paraben ( <i>n</i> -butyl 4-hydroxybenzoate) (unlabeled)	1 mg/mL in methanol	1.2 mL	¥35,600
CLM-9847-1.2	Isobutyl paraben (isobutyl 4-hydroxybenzoate) (ring- <sup>13</sup> C <sub>6</sub> , 99%)	1 mg/mL in methanol	1.2 mL	¥144,600
ULM-9848-1.2	Isobutyl paraben (isobutyl 4-hydroxybenzoate) (unlabeled)	1 mg/mL in methanol	1.2 mL	¥35,600
CLM-10450-1.2	<i>n</i> -Pentyl paraben ( <i>n</i> -pentyl 4-hydroxybenzoate) (ring- <sup>13</sup> C <sub>6</sub> , 99%)	1 mg/mL in methanol	1.2 mL	¥144,600
ULM-10441-1.2	<i>n</i> -Pentyl paraben ( <i>n</i> -pentyl 4-hydroxybenzoate) (unlabeled)	1 mg/mL in methanol	1.2 mL	¥35,600
CLM-9849-1.2	Benzyl paraben (benzyl 4-hydroxybenzoate) (ring- <sup>13</sup> C <sub>6</sub> , 99%)	1 mg/mL in methanol	1.2 mL	¥144,600
ULM-9850-1.2	Benzyl paraben (benzyl 4-hydroxybenzoate) (unlabeled)	1 mg/mL in methanol	1.2 mL	¥35,600
CLM-10451-1.2	<i>n</i> -Heptyl paraben ( <i>n</i> -heptyl 4-hydroxybenzoate) (ring- <sup>13</sup> C <sub>6</sub> , 99%)	1 mg/mL in methanol	1.2 mL	¥144,600
ULM-10442-1.2	<i>n</i> -Heptyl paraben ( <i>n</i> -heptyl 4-hydroxybenzoate) (unlabeled)	1 mg/mL in methanol	1.2 mL	¥38,000

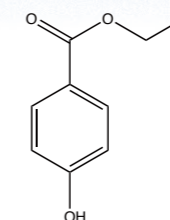
## Related Products

Catalog No.	Description	Concentration	Amount	Price(¥)
CLM-4745-1.2	4-Hydroxybenzoic acid (ring- <sup>13</sup> C <sub>6</sub> , 99%)	1 mg/mL in methanol	1.2 mL	¥119,600
ULM-8251-1.2	4-Hydroxybenzoic acid (unlabeled)	1 mg/mL in methanol	1.2 mL	¥35,600

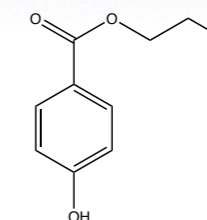
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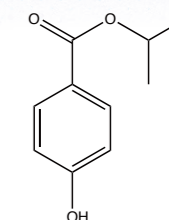
**Methyl paraben**  
(methyl 4-hydroxybenzoate)



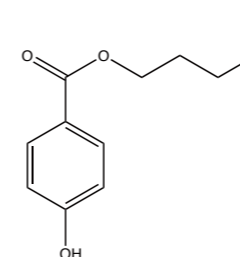
**Ethyl paraben**  
(ethyl 4-hydroxybenzoate)



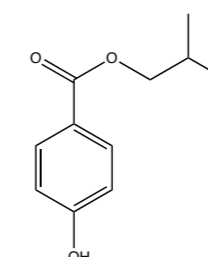
***n*-Propyl paraben**  
(*n*-propyl 4-hydroxybenzoate)



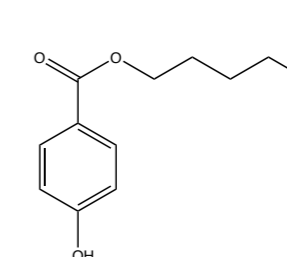
**Isopropyl paraben**  
(isopropyl 4-hydroxybenzoate)



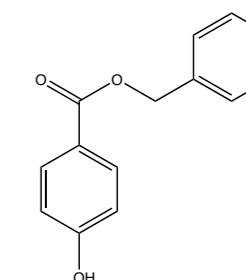
***n*-Butyl paraben**  
(*n*-butyl 4-hydroxybenzoate)



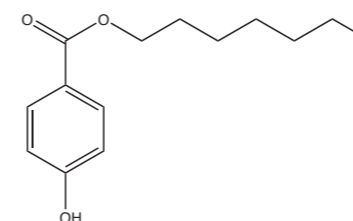
**Isobutyl paraben**  
(isobutyl 4-hydroxybenzoate)



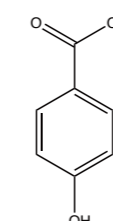
***n*-Pentyl paraben**  
(*n*-pentyl 4-hydroxybenzoate)



**Benzyl paraben**  
(benzyl 4-hydroxybenzoate)



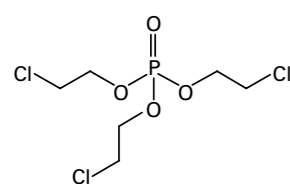
***n*-Heptyl paraben**  
(*n*-heptyl 4-hydroxybenzoate)



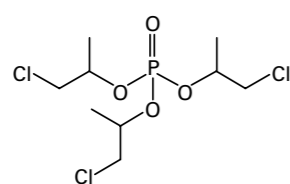
**4-Hydroxybenzoic acid**



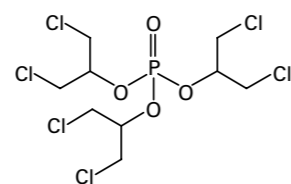
# Phosphate Flame Retardants (PFRs)



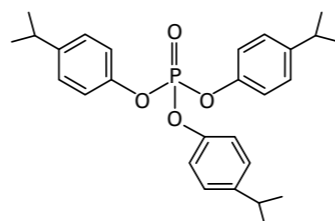
Tris(2-chloroethyl) phosphate (TCEP)



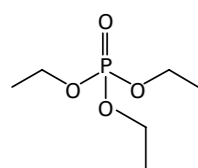
Tris(1-chloro-2-propyl) phosphate (TCPP)



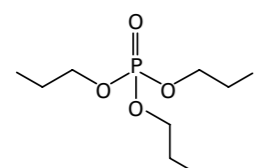
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)



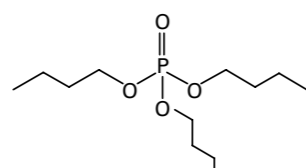
Tris(4-isopropylphenyl) phosphate (IPPP)



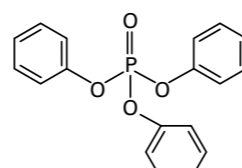
Triethyl phosphate



Tripropyl phosphate



Tri-n-butyl phosphate



Triphenyl phosphate

## Featured Products

Catalog No.	Description	Concentration	Amount	Price(¥)
DLM-9313-1.2	Tris(2-chloroethyl) phosphate (TCEP) (D <sub>12</sub> , 98%)	100 µg/mL in acetonitrile	1.2 mL	¥105,200
ULM-9314-1.2	Tris(2-chloroethyl) phosphate (TCEP) (unlabeled)	100 µg/mL in acetonitrile	1.2 mL	¥35,400
DLM-9317-1.2	Tris(1-chloro-2-propyl) phosphate (TCPP) (D <sub>18</sub> , 98%)	100 µg/mL in acetonitrile	1.2 mL	¥105,200
ULM-9318-1.2	Tris(1-chloro-2-propyl) phosphate (TCPP) (unlabeled)	100 µg/mL in acetonitrile	1.2 mL	¥35,400
DLM-9315-1.2	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP) (D <sub>15</sub> , 98%)	100 µg/mL in acetonitrile	1.2 mL	¥105,200
ULM-9316-1.2	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP) (unlabeled)	100 µg/mL in acetonitrile	1.2 mL	¥35,400
<b>NEW!</b> CLM-10224-1.2	Tris(4-isopropylphenyl) phosphate (IPPP) (ring- <sup>13</sup> C <sub>18</sub> , 99%)	100 µg/mL in acetonitrile	1.2 mL	¥173,400
<b>NEW!</b> ULM-11048-1.2	Tris(4-isopropylphenyl) phosphate (IPPP) (unlabeled)	100 µg/mL in acetonitrile	1.2 mL	¥35,400
DLM-8074-1.2	Triethyl phosphate (D <sub>15</sub> , 98%)	1 mg/mL in acetonitrile	1.2 mL	¥81,600
ULM-9032-1.2	Triethyl phosphate (unlabeled)	1 mg/mL in acetonitrile	1.2 mL	¥28,400
DLM-8901-1.2	Tripropyl phosphate (D <sub>21</sub> , 98%)	1 mg/mL in acetonitrile	1.2 mL	¥81,600
ULM-9090-1.2	Tripropyl phosphate (unlabeled)	1 mg/mL in acetonitrile	1.2 mL	¥28,400
DLM-3940-1.2	Tri-n-butyl phosphate (D <sub>27</sub> , 98%)	1 mg/mL in acetonitrile	1.2 mL	¥81,600
ULM-9033-1.2	Tri-n-butyl phosphate (unlabeled)	1 mg/mL in acetonitrile	1.2 mL	¥28,400
DLM-9070-1.2	Triphenyl phosphate (D <sub>15</sub> , 98%)	1 mg/mL in acetonitrile	1.2 mL	¥81,600
ULM-9091-1.2	Triphenyl phosphate (unlabeled)	1 mg/mL in acetonitrile	1.2 mL	¥28,400

Continued ▶

Catalog No.	Description	Amount	Price(¥)
ES-5529	Phosphorous Flame Retardant Solution (D, 98%)	1.2 mL in acetonitrile	¥170,000
	<b>Labeled</b>	(µg/mL)	
	Tris(2-chloroethyl) phosphate (D <sub>12</sub> , 98%)	10	
	Tris(2-chloroisopropyl) phosphate (D <sub>18</sub> , 98%)	10	
	Tris(1,3-dichloro-2-propyl) phosphate (D <sub>15</sub> , 98%)	10	
	Triethyl phosphate (D <sub>15</sub> , 98%)	10	
	Tripropyl phosphate (D <sub>21</sub> , 98%)	10	
	Tri-n-butyl phosphate (D <sub>27</sub> , 98%)	10	
	Triphenyl phosphate (D <sub>15</sub> , 98%)	10	
ES-5530	Phosphorous Flame Retardant Native PAR Solution	1.2 mL in acetonitrile	¥67,000
	<b>Native</b>	(µg/mL)	
	Tris(2-chloroethyl) phosphate	10	
	Tris(2-chloroisopropyl) phosphate	10	
	Tris(1,3-dichloro-2-propyl) phosphate	10	
	Triethyl phosphate	10	
	Tripropyl phosphate	10	
	Tri-n-butyl phosphate	10	
	Triphenyl phosphate	10	





Phthalate/Phthalate Replacement Metabolites Mixture

Catalog No.	Description	Amount	Price(¥)
ES-5633	JECS Phthalate/Phthalate Replacement Metabolites Mix	1.2 mL in MTBE	¥212,000
	<b>Unlabeled</b>	(ng/mL)	
	Mono-(4-methyl-7-hydroxyoctyl) phthalate	200	
	Mono-(4-methyl-7-oxooctyl) phthalate	200	
	Mono-(4-methyl-7-carboxyheptyl) phthalate	200	
	Mono-(4-methyl-7-carboxyoctyl) phthalate	200	
	Mono-(8-carboxynonyl) phthalate	200	
	Mono-(7-carboxyoctyl) phthalate	200	
	Cyclohexane-1,2-dicarboxylic acid, mono-(4-methyloctyl) ester	200	
	Cyclohexane-1,2-dicarboxylic acid, mono-(7-hydroxy-4-methyloctyl) ester	200	
	Cyclohexane-1,2-dicarboxylic acid, mono-(4-methyl-7-oxooctyl) ester	200	
	Cyclohexane-1,2-dicarboxylic acid, mono-(7-carboxy-4-methylheptyl) ester	200	
	1,2,4-Benzenetricarboxylic acid, 1,2-bis(2-ethylhexyl) ester	200	
	1,2,4-Benzenetricarboxylic acid, 1,4-bis(2-ethylhexyl) ester	200	
	1,2,4-Benzenetricarboxylic acid, 2,4-bis(2-ethylhexyl) ester	200	
	Mono-(6-hydroxy-2-propylheptyl) phthalate	200	
	Mono-(6-oxo-2-propylheptyl) phthalate	200	
	Mono-(6-carboxy-2-propylhexyl) phthalate	200	
	Monomethyl phthalate	2000	
	Monoethyl phthalate	2000	
	Mono- <i>n</i> -butyl phthalate	2000	
	Monoisobutyl phthalate	2000	
	Monobenzyl phthalate	2000	
	Mono- <i>n</i> -pentyl phthalate	2000	
	Monocyclohexyl phthalate	2000	
	Mono-2-ethylhexyl phthalate	2000	
	Mono-(2-ethyl-5-hydroxyhexyl) phthalate	2000	
	Mono-(2-ethyl-5-oxohexyl) phthalate	2000	
	Mono-(2-ethyl-5-carboxypentyl) phthalate	2000	
	Mono-[2-(carboxymethyl)hexyl] phthalate	2000	
	Mono- <i>n</i> -octyl phthalate	2000	
	Mono-(3,5,5-trimethyl-1-hexyl) phthalate	2000	
	Mono-2-ethylhexyl terephthalate	2000	
	Mono-(3-carboxypropyl) phthalate	2000	

Chemical purity (CP) is 98% or greater, unless otherwise specified.

Related Products

Catalog No.	Description	Concentration	Amount	Price(¥)
CLM-4325-1.2	Bisphenol A (ring- <sup>13</sup> C <sub>12</sub> , 99%)	100 µg/mL in acetonitrile	1.2 mL	¥125,000
ULM-7106-1.2	Bisphenol A (unlabeled)	100 µg/mL in acetonitrile	1.2 mL	¥35,600
CLM-9776-1.2	Bisphenol AF (ring- <sup>13</sup> C <sub>12</sub> , 99%)	100 µg/mL in methanol	1.2 mL	¥141,000
ULM-9779-1.2	Bisphenol AF (unlabeled)	100 µg/mL in methanol	1.2 mL	¥47,400
ULM-9830-1.2	Bisphenol AP (unlabeled)	100 µg/mL in methanol	1.2 mL	¥47,400
CLM-9851-1.2	Bisphenol B (ring- <sup>13</sup> C <sub>12</sub> , 99%)	100 µg/mL in acetonitrile	1.2 mL	¥144,600
ULM-9852-1.2	Bisphenol B (unlabeled)	100 µg/mL in acetonitrile	1.2 mL	¥47,400
ULM-9826-1.2	Bisphenol E (unlabeled)	100 µg/mL in acetonitrile	1.2 mL	¥47,400
CLM-9866-1.2	Bisphenol F (ring- <sup>13</sup> C <sub>12</sub> , 99%)	100 µg/mL in acetonitrile	1.2 mL	¥144,600
ULM-9827-1.2	Bisphenol F (unlabeled)	100 µg/mL in acetonitrile	1.2 mL	¥47,400
ULM-9829-1.2	Bisphenol P (unlabeled)	100 µg/mL in methanol	1.2 mL	¥47,400
CLM-9319-1.2	Bisphenol S ( <sup>13</sup> C <sub>12</sub> , 98%)	100 µg/mL in methanol	1.2 mL	¥144,600
ULM-9320-1.2	Bisphenol S (unlabeled)	100 µg/mL in methanol	1.2 mL	¥47,400
ULM-9828-1.2	Bisphenol Z (unlabeled)	100 µg/mL in methanol	1.2 mL	¥47,400
ULM-9831-1.2	Bisphenol A β-D-glucuronide (unlabeled) CP 90%	100 µg/mL in methanol	1.2 mL	¥144,600
ULM-9832-1.2	Bisphenol A bis-(β-D-glucuronide), disodium salt (unlabeled) CP 90%	100 µg/mL in methanol	1.2 mL	¥144,600
ULM-9833-1.2	Bisphenol A bisulfate, disodium salt (unlabeled) CP 90%	100 µg/mL in methanol	1.2 mL	¥109,400
CLM-4675-1.2	Bis(2-ethylhexyl)adipate (adipate- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in nonane	1.2 mL	¥128,000
ULM-6566-1.2	Bis(2-ethylhexyl)adipate (unlabeled)	100 µg/mL in nonane	1.2 mL	¥64,000
CLM-4323-MT-1.2	Phthalic acid (ring-1,2- <sup>13</sup> C <sub>2</sub> , dicarboxyl- <sup>13</sup> C <sub>2</sub> , 99%)	100 µg/mL in MTBE	1.2 mL	お問い合わせ
ULM-8301-MT-1.2	Phthalic acid (unlabeled)	100 µg/mL in MTBE	1.2 mL	¥27,200

Chemical purity (CP) is 98% or greater, unless otherwise specified.



# Polychlorinated Naphthalenes (PCNs)

## Labeled Polychlorinated Naphthalene (PCN) Standards

Catalog No.	Description	PCN No.	Concentration	Amount	Price(¥)
ECN-5217	2-MonoCN ( <sup>13</sup> C <sub>10</sub> , 99%)	2	10 µg/mL in isooctane	1.2 mL	¥161,000
DLM-2005-1.2	2-MonoCN (D <sub>7</sub> , 98%)	2	100 µg/mL in nonane	1.2 mL	¥82,600
ECN-5520	1,5-DiCN ( <sup>13</sup> C <sub>10</sub> , 99%)	6	10 µg/mL in isooctane	1.2 mL	¥161,000
ECN-5602	1,8-DiCN ( <sup>13</sup> C <sub>10</sub> , 99%)	9	10 µg/mL in isooctane	1.2 mL	¥161,000
ECN-5575	1,2,3-TriCN ( <sup>13</sup> C <sub>10</sub> , 99%)	13	10 µg/mL in isooctane	1.2 mL	¥169,000
ECN-5240	1,2,3,4-TetraCN ( <sup>13</sup> C <sub>10</sub> , 99%)	27	10 µg/mL in isooctane	1.2 mL	¥182,000
ECN-5241	1,3,5,7-TetraCN ( <sup>13</sup> C <sub>10</sub> , 99%)	42	10 µg/mL in isooctane	1.2 mL	¥182,000
ECN-5250	1,2,3,5,7-PentaCN ( <sup>13</sup> C <sub>10</sub> , 99%)	52	10 µg/mL in isooctane	1.2 mL	¥182,000
ECN-5260	1,2,3,4,5,7-HexaCN ( <sup>13</sup> C <sub>10</sub> , 99%)	64	10 µg/mL in isooctane	1.2 mL	¥182,000
ECN-5267	1,2,3,4,5,8-HexaCN ( <sup>13</sup> C <sub>10</sub> , 99%)	65	10 µg/mL in isooctane	1.2 mL	¥182,000
ECN-5261-A	1,2,3,5,6,7-HexaCN ( <sup>13</sup> C <sub>10</sub> , 98%)	67	10 µg/mL in isooctane	1.2 mL	¥182,000
ECN-5270-A	1,2,3,4,5,6,7-HeptaCN ( <sup>13</sup> C <sub>10</sub> , 98%)	73	10 µg/mL in isooctane	1.2 mL	¥182,000
ECN-5280	OctaCN ( <sup>13</sup> C <sub>10</sub> , 99%)	75	10 µg/mL in isooctane	1.2 mL	¥182,000

Catalog No.	Description	Amount	Price(¥)
ECN-5577	Mono-Octa PCN Calibration Series CS1- CS5	5 × 0.25 mL in nonane/ isooctane	¥623,000
ECN-5577-CS6	Mono-Octa PCN Calibration Solution (CS6) (not included in ECN-5577)	0.25 mL in nonane/ isooctane	¥133,000

All concentrations are in ng/mL

Unlabeled	PCN No.	CS1	CS2	CS3	CS4	CS5	CS6
2-MonoCN	2	0.2	1	5	20	100	500
1,5-DiCN	6	0.2	1	5	20	100	500
1,2,3-TriCN	13	0.2	1	5	20	100	500
1,2,3,4-Tetra CN	27	0.2	1	5	20	100	500
1,2,3,5-TetraCN	28	0.2	1	5	20	100	500
1,3,5,7-TetraCN	42	0.2	1	5	20	100	500
1,4,5,8-TetraCN	46	0.2	1	5	20	100	500
2,3,6,7-TetraCN	48	0.2	1	5	20	100	500
1,2,3,4,5-PentaCN	49	0.2	1	5	20	100	500
1,2,3,4,6-PentaCN	50	0.2	1	5	20	100	500
1,2,3,5,7-PentaCN	52	0.2	1	5	20	100	500
1,2,3,5,8-PentaCN	53	0.2	1	5	20	100	500
1,2,3,4,5,8-HexaCN	65	0.2	1	5	20	100	500
1,2,3,5,6,7-HexaCN	67	0.2	1	5	20	100	500
1,2,3,5,6,8-HexaCN	68	0.2	1	5	20	100	500
1,2,3,5,7,8-HexaCN	69	0.2	1	5	20	100	500
1,2,3,6,7,8-HexaCN	70	0.2	1	5	20	100	500
1,2,4,5,7,8-HexaCN	72	0.2	1	5	20	100	500
1,2,3,4,5,6,7-HeptaCN	73	0.2	1	5	20	100	500
OctaCN	75	0.2	1	5	20	100	500
<b>Cleanup</b>							
MonoCN Isomer Mix (87% 2-MonoCN, 13% 1-MonoCN) ( <sup>13</sup> C <sub>10</sub> , 99%)	1, 2	10	10	10	10	10	10
1,5-DiCN ( <sup>13</sup> C <sub>10</sub> , 99%)	6	10	10	10	10	10	10
1,2,3-TriCN ( <sup>13</sup> C <sub>10</sub> , 99%)	13	10	10	10	10	10	10
1,3,5,7-TetraCN ( <sup>13</sup> C <sub>10</sub> , 99%)	42	10	10	10	10	10	10
1,2,3,5,7-PentaCN ( <sup>13</sup> C <sub>10</sub> , 99%)	52	10	10	10	10	10	10
1,2,3,4,5,8-HexaCN ( <sup>13</sup> C <sub>10</sub> , 99%)	65	10	10	10	10	10	10
1,2,3,5,6,7-HexaCN ( <sup>13</sup> C <sub>10</sub> , 99%)	67	10	10	10	10	10	10
1,2,3,4,5,6,7-HeptaCN ( <sup>13</sup> C <sub>10</sub> , 99%)	73	10	10	10	10	10	10
OctaCN ( <sup>13</sup> C <sub>10</sub> , 99%)	75	10	10	10	10	10	10
<b>Syringe</b>							
2,5-DiCB (PCB-9) ( <sup>13</sup> C <sub>12</sub> , 99%)		10	10	10	10	10	10
2,2',5,5'-TetraCB (PCB-52) ( <sup>13</sup> C <sub>12</sub> , 99%)		10	10	10	10	10	10
2,2',4,5,5'-PentaCB (PCB-101) ( <sup>13</sup> C <sub>12</sub> , 99%)		10	10	10	10	10	10
2,2',3,4,4',5'-HexaCB (PCB-138) ( <sup>13</sup> C <sub>12</sub> , 98%)		10	10	10	10	10	10
2,2',3,3',4,4',5,5'-OctaCB (PCB-194) ( <sup>13</sup> C <sub>12</sub> , 98%)		10	10	10	10	10	10
<b>Sampling</b>							
1,8-DiCN ( <sup>13</sup> C <sub>10</sub> , 99%)	9	10	10	10	10	10	10
1,2,3,4-TetraCN ( <sup>13</sup> C <sub>10</sub> , 99%)	27	10	10	10	10	10	10



Catalog No.	Description	Amount	Price(¥)
ECN-5578	Mono-Octa PCN Cleanup Standard Spiking Solution	1.2 mL in isoootane	¥409,000
	<b>Labeled</b>	PCN No. (ng/mL)	
	MonoCN Isomer Mix (87% 2-MonoCN, 13% 1-MonoCN) ( <sup>13</sup> C <sub>10</sub> , 99%)	1, 2 1000	
	1,5-DiCN ( <sup>13</sup> C <sub>10</sub> , 99%)	6 1000	
	1,2,3-TriCN ( <sup>13</sup> C <sub>10</sub> , 99%)	13 1000	
	1,3,5,7-TetraCN ( <sup>13</sup> C <sub>10</sub> , 99%)	42 1000	
	1,2,3,5,7-PentaCN ( <sup>13</sup> C <sub>10</sub> , 99%)	52 1000	
	1,2,3,4,5,8-HexaCN ( <sup>13</sup> C <sub>10</sub> , 99%)	65 1000	
	1,2,3,5,6,7-HexaCN ( <sup>13</sup> C <sub>10</sub> , 98%)	67 1000	
	1,2,3,4,5,6,7-HeptaCN ( <sup>13</sup> C <sub>10</sub> , 98%)	73 1000	
	OctaCN ( <sup>13</sup> C <sub>10</sub> , 99%)	75 1000	
EC-4979-A	Mono-Octa PCN Syringe Standard Spiking Solution	1.2 mL in nonane	¥228,000
	<b>Labeled</b>	(ng/mL)	
	2,5-DiCB (PCB-9) ( <sup>13</sup> C <sub>12</sub> , 99%)	1000	
	2,2',5,5'-TetraCB (PCB-52) ( <sup>13</sup> C <sub>12</sub> , 99%)	1000	
	2,2',4,5,5'-PentaCB (PCB-101) ( <sup>13</sup> C <sub>12</sub> , 99%)	1000	
	2,2',3,4,4',5'-HexaCB (PCB-138) ( <sup>13</sup> C <sub>12</sub> , 98%)	1000	
	2,2',3,3',4,4',5,5'-OctaCB (PCB-194) ( <sup>13</sup> C <sub>12</sub> , 98%)	1000	
ECN-5603	Mono-Octa PCN Sampling Spike Solution	1.2 mL in isoootane	¥136,600
	<b>Labeled</b>	PCN No. (ng/mL)	
	1,8-DiCN ( <sup>13</sup> C <sub>10</sub> , 99%)	9 1000	
	1,2,3,4-TetraCN ( <sup>13</sup> C <sub>10</sub> , 99%)	27 1000	
ECN-5580	Mono-Octa PCN Native PAR Solution	1.2 mL in nonane	¥284,000
ECN-5580-1/1000	Mono-Octa PCN Native PAR Solution	1.2 mL in nonane	¥60,800
	<b>Unlabeled</b>	PCN No. (ng/mL)	ECN-5580-1/1000 (ng/mL) ECN-5580 (ng/mL)
	2-MonoCN	2	2 2000
	1,5-DiCN	6	2 2000
	1,2,3-TriCN	13	2 2000
	1,2,3,4-TetraCN	27	2 2000
	1,2,3,5-TetraCN	28	2 2000
	1,3,5,7-TetraCN	42	2 2000
	1,4,5,8-TetraCN	46	2 2000
	2,3,6,7-TetraCN	48	2 2000
	1,2,3,4,5-PentaCN	49	2 2000
	1,2,3,4,6-PentaCN	50	2 2000
	1,2,3,5,7-PentaCN	52	2 2000
	1,2,3,5,8-PentaCN	53	2 2000
	1,2,3,4,5,8-HexaCN	65	2 2000
	1,2,3,5,6,7-HexaCN	67	2 2000
	1,2,3,5,6,8-HexaCN	68	2 2000
	1,2,3,5,7,8-HexaCN	69	2 2000
	1,2,3,6,7,8-HexaCN	70	2 2000
	1,2,4,5,7,8-HexaCN	72	2 2000
	1,2,3,4,5,6,7-HeptaCN	73	2 2000
	OctaCN	75	2 2000

Continued ▶

Unlabeled Polychlorinated Naphthalene (PCN) Standards

Catalog No.	Description	PCN No.	Concentration	Amount	Price(¥)
ECN-2610	1-MonoCN	1	100 µg/mL in nonane	1 mL	¥47,400
ECN-2611	2-MonoCN	2	100 µg/mL in nonane	1 mL	¥47,400
ECN-2620	1,2-DiCN	3	100 µg/mL in nonane	1 mL	¥92,800
ECN-2621	1,4-DiCN	5	100 µg/mL in nonane	1 mL	¥92,800
ECN-2622	1,5-DiCN	6	100 µg/mL in nonane	1 mL	¥92,800
ECN-2623	1,8-DiCN	9	100 µg/mL in nonane	1 mL	¥92,800
ECN-2624	2,3-DiCN	10	100 µg/mL in nonane	1 mL	¥92,800
ECN-2630	1,2,3-TriCN	13	100 µg/mL in nonane	1 mL	¥111,000
ECN-2632	1,2,4-TriCN	14	100 µg/mL in nonane	1 mL	¥108,000
ECN-2631	1,4,6-TriCN	24	100 µg/mL in nonane	1 mL	¥108,000
ECN-2640	1,2,3,4-TetraCN	27	100 µg/mL in nonane	1 mL	¥111,000
ECN-2645	1,2,3,5-TetraCN	28	100 µg/mL in nonane	1 mL	¥111,000
ECN-2646	1,2,3,8-TetraCN	31	100 µg/mL in nonane	1 mL	¥111,000
<b>NEW!</b> ECN-2648	1,2,4,7-TetraCN	34	100 µg/mL in nonane	1.2 mL	¥106,200
ECN-2642	1,2,5,6-TetraCN	36	100 µg/mL in nonane	1 mL	¥111,000
ECN-2647	1,2,7,8-TetraCN	41	100 µg/mL in nonane	1 mL	¥108,000
ECN-2641	1,3,5,7-TetraCN	42	100 µg/mL in nonane	1 mL	¥111,000
ECN-2644	1,4,5,8-TetraCN	46	100 µg/mL in nonane	1 mL	¥108,000
ECN-2643	2,3,6,7-TetraCN	48	100 µg/mL in nonane	1 mL	¥111,000
ECN-2654	1,2,3,4,5-PentaCN	49	100 µg/mL in nonane	1 mL	¥128,000
ECN-2652	1,2,3,4,6-PentaCN	50	100 µg/mL in nonane	1 mL	¥128,000
ECN-2651	1,2,3,5,7-PentaCN	52	100 µg/mL in nonane	1 mL	¥128,000
ECN-2650	1,2,3,5,8-PentaCN	53	100 µg/mL in nonane	1 mL	¥128,000
ECN-2653	1,2,3,6,7-PentaCN	54	100 µg/mL in nonane	1 mL	¥128,000
ECN-2656	1,2,4,5,8-PentaCN	59	100 µg/mL in nonane	1 mL	¥125,000
ECN-2655	1,2,4,6,7-PentaCN	60	100 µg/mL in nonane	1 mL	¥128,000
ECN-2657	1,2,4,7,8-PentaCN	62	100 µg/mL in nonane	1 mL	¥125,000
ECN-2668	1,2,3,4,5,6-HexaCN	63	100 µg/mL in nonane	1 mL	¥125,000
ECN-2669	1,2,3,4,5,7-HexaCN	64	100 µg/mL in nonane	1 mL	¥128,000
ECN-2667	1,2,3,4,5,8-HexaCN	65	100 µg/mL in nonane	1 mL	¥125,000
ECN-2660	1,2,3,4,6,7-HexaCN	66	100 µg/mL in nonane	1 mL	¥128,000
ECN-2663	1,2,3,5,6,7-HexaCN	67	100 µg/mL in nonane	1 mL	¥128,000
ECN-2664	1,2,3,5,6,8-HexaCN	68	100 µg/mL in nonane	1 mL	¥128,000
ECN-2662	1,2,3,5,7,8-HexaCN	69	100 µg/mL in nonane	1 mL	¥128,000
ECN-2665	1,2,3,6,7,8-HexaCN	70	100 µg/mL in nonane	1 mL	¥128,000
ECN-2666	1,2,4,5,6,8-HexaCN	71	100 µg/mL in nonane	1 mL	¥128,000
ECN-2661	1,2,4,5,7,8-HexaCN	72	100 µg/mL in nonane	1 mL	¥128,000
ECN-2670	1,2,3,4,5,6,7-HeptaCN	73	100 µg/mL in nonane	1 mL	¥128,000
ECN-2671	1,2,3,4,5,6,8-HeptaCN	74	100 µg/mL in nonane	1 mL	¥128,000
ECN-2680	OctaCN	75	100 µg/mL in nonane	1 mL	¥47,400



## Pyrethroids

## Featured Products

Catalog No.	Description	Concentration	Amount	Price(¥)
DLM-10041-1.2	Bifenthrin (D <sub>6</sub> , 98%) CP 95%	100 µg/mL in nonane	1.2 mL	¥108,400
ULM-10034-1.2	Bifenthrin (unlabeled)	100 µg/mL in nonane	1.2 mL	¥26,800
CLM-7293-1.2	Cyfluthrin, mix of stereoisomers (phenoxy- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in nonane	1.2 mL	¥155,200
DLM-10043-1.2	Cyfluthrin, mix of stereoisomers (D <sub>6</sub> , 98%) CP 95%	100 µg/mL in nonane	1.2 mL	¥100,000
ULM-7454-1.2	Cyfluthrin, mix of stereoisomers (unlabeled)	100 µg/mL in nonane	1.2 mL	¥23,600
DLM-10039-1.2	Cyhalothrin (D <sub>6</sub> , 98%) CP 90%	100 µg/mL in nonane	1.2 mL	¥108,400
ULM-10032-1.2	Cyhalothrin (unlabeled)	100 µg/mL in nonane	1.2 mL	¥26,800
CLM-7292-1.2	Cypermethrin, mix of stereoisomers (phenoxy- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in nonane	1.2 mL	¥155,200
DLM-10042-1.2	Cypermethrin, mix of stereoisomers (D <sub>6</sub> , 98%)	100 µg/mL in nonane	1.2 mL	¥91,800
ULM-7453-1.2	Cypermethrin, mix of stereoisomers (unlabeled)	100 µg/mL in nonane	1.2 mL	¥18,800
DLM-10040-1.2	Deltamethrin (D <sub>6</sub> , 98%)	100 µg/mL in nonane	1.2 mL	¥100,000
ULM-10033-1.2	Deltamethrin (unlabeled)	100 µg/mL in nonane	1.2 mL	¥23,600
DLM-10037-1.2	Fenpropathrin (D <sub>6</sub> , 98%)	100 µg/mL in nonane	1.2 mL	¥108,400
ULM-10023-1.2	Fenpropathrin (unlabeled)	100 µg/mL in nonane	1.2 mL	¥26,800
DLM-10035-1.2	Fenvalerate (D <sub>6</sub> , 98%)	100 µg/mL in nonane	1.2 mL	¥108,400
ULM-10022-1.2	Fenvalerate (unlabeled)	100 µg/mL in nonane	1.2 mL	¥26,800
CLM-7322-1.2	<i>cis</i> -Permethrin (phenoxy- <sup>13</sup> C <sub>6</sub> , 99%)	50 µg/mL in nonane	1.2 mL	¥85,200
ULM-8526-1.2	<i>cis</i> -Permethrin (unlabeled)	50 µg/mL in nonane	1.2 mL	¥26,800
CLM-7323-1.2	<i>trans</i> -Permethrin (phenoxy- <sup>13</sup> C <sub>6</sub> , 99%)	50 µg/mL in nonane	1.2 mL	¥85,200
ULM-8527-1.2	<i>trans</i> -Permethrin (unlabeled)	50 µg/mL in nonane	1.2 mL	¥26,800
DLM-10036-1.2	Permethrin ( <i>cis/trans</i> mix) (D <sub>6</sub> , 98%)	100 µg/mL in nonane	1.2 mL	¥91,800
ULM-10018-1.2	Permethrin ( <i>cis/trans</i> mix) (unlabeled) CP 95%	100 µg/mL in nonane	1.2 mL	¥18,800
DLM-10038-1.2	Tefluthrin (D <sub>6</sub> , 98%)	100 µg/mL in nonane	1.2 mL	¥108,400
ULM-10031-1.2	Tefluthrin (unlabeled) CP 90%	100 µg/mL in nonane	1.2 mL	¥26,800

CP = chemical purity

Continued ▶

## Related Products

Catalog No.	Description	Concentration	Amount	Price(¥)
<b>NEW!</b> CDLM-11258-1.2	Chrysanthemum dicarboxylic acid (propenyl-3- <sup>13</sup> C, 99%; 3,3,3-D <sub>3</sub> , 98%) CP 96%	100 µg/mL in acetonitrile	1.2 mL	¥313,200
<b>NEW!</b> ULM-11259-1.2	Chrysanthemum dicarboxylic acid (unlabeled) CP 96%	100 µg/mL in acetonitrile	1.2 mL	¥138,400
<b>NEW!</b> CDLM-11258-MT-1.2	Chrysanthemum dicarboxylic acid (propenyl-3- <sup>13</sup> C, 99%; 3,3,3-D <sub>3</sub> , 98%) CP 96%	100 µg/mL in MTBE	1.2 mL	¥313,200
<b>NEW!</b> ULM-11259-MT-1.2	Chrysanthemum dicarboxylic acid (unlabeled) CP 96%	100 µg/mL in MTBE	1.2 mL	¥138,400
CDLM-10692-1.2	<i>cis</i> -DBCA (1, carboxyl- <sup>13</sup> C <sub>2</sub> , 99%; 1-D, 96%)	100 µg/mL in acetonitrile	1.2 mL	¥156,000
ULM-10693-1.2	<i>cis</i> -DBCA (unlabeled)	100 µg/mL in acetonitrile	1.2 mL	¥67,000
<b>NEW!</b> CDLM-10692-MT-1.2	<i>cis</i> -DBCA (1, carboxyl- <sup>13</sup> C <sub>2</sub> , 99%; 1-D, 96%)	100 µg/mL in MTBE	1.2 mL	¥158,400
<b>NEW!</b> ULM-10693-MT-1.2	<i>cis</i> -DBCA (unlabeled)	100 µg/mL in MTBE	1.2 mL	¥68,600
CDLM-9205-1.2	<i>cis</i> -DCCA (1, carboxyl- <sup>13</sup> C <sub>2</sub> , 99%; 1-D, 97%)	100 µg/mL in acetonitrile-D <sub>3</sub>	1.2 mL	¥153,000
ULM-9176-1.2	<i>cis</i> -DCCA (unlabeled)	100 µg/mL in acetonitrile	1.2 mL	¥70,200
<b>NEW!</b> CDLM-9205-MT-1.2	<i>cis</i> -DCCA (1, carboxyl- <sup>13</sup> C <sub>2</sub> , 99%; 1-D, 97%)	100 µg/mL in MTBE	1.2 mL	¥155,200
<b>NEW!</b> ULM-9176-MT-1.2	<i>cis</i> -DCCA (unlabeled)	100 µg/mL in MTBE	1.2 mL	¥70,200
CDLM-9206-1.2	<i>trans</i> -DCCA (1, carboxyl- <sup>13</sup> C <sub>2</sub> , 99%; 1-D, 97%) CP 97%	100 µg/mL in acetonitrile-D <sub>3</sub>	1.2 mL	¥153,000
ULM-9175-1.2	<i>trans</i> -DCCA (unlabeled)	100 µg/mL in acetonitrile	1.2 mL	¥70,200
<b>NEW!</b> CDLM-9206-MT-1.2	<i>trans</i> -DCCA (1, carboxyl- <sup>13</sup> C <sub>2</sub> , 99%; 1-D, 97%) CP 97%	100 µg/mL in MTBE	1.2 mL	¥155,200
<b>NEW!</b> ULM-9175-MT-1.2	<i>trans</i> -DCCA (unlabeled)	100 µg/mL in MTBE	1.2 mL	¥70,200
CLM-7389-1.2	4-Fluoro-3-phenoxybenzoic acid ( <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in acetonitrile	1.2 mL	¥155,200
ULM-7391-1.2	4-Fluoro-3-phenoxybenzoic acid (unlabeled)	100 µg/mL in acetonitrile	1.2 mL	¥70,200
<b>NEW!</b> CDLM-11212-1.2	4-Methoxymethyl-2,3,5,6-tetrafluorobenzyl alcohol (methyl- <sup>13</sup> C, 99%; methyl-D <sub>3</sub> , 98%)	100 µg/mL in acetonitrile	1.2 mL	¥243,200
<b>NEW!</b> ULM-11213-1.2	4-Methoxymethyl-2,3,5,6-tetrafluorobenzyl alcohol (unlabeled) CP 97%	100 µg/mL in acetonitrile	1.2 mL	¥46,800
<b>NEW!</b> CLM-11214-1.2	2-Methyl-3-phenylbenzoic acid (phenyl- <sup>13</sup> C <sub>6</sub> , 98%)	100 µg/mL in acetonitrile	1.2 mL	¥208,400
<b>NEW!</b> ULM-11215-1.2	2-Methyl-3-phenylbenzoic acid (unlabeled) contains ~2% water	100 µg/mL in acetonitrile	1.2 mL	¥46,800
CLM-4542-1.2	3-Phenoxybenzoic acid (phenoxy- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in nonane	1.2 mL	¥133,000
CLM-4542-SA-1.2	3-Phenoxybenzoic acid (phenoxy- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in acetonitrile	1.2 mL	¥133,000
ULM-6781-1.2	3-Phenoxybenzoic acid (unlabeled)	100 µg/mL in nonane	1.2 mL	¥46,800
ULM-6781-SA-1.2	3-Phenoxybenzoic acid (unlabeled)	100 µg/mL in acetonitrile	1.2 mL	¥46,800
<b>NEW!</b> CDLM-11210-1.2	2,3,5,6-Tetrafluoro-1,4-benzenedimethanol (bisbenzyl- <sup>13</sup> C <sub>2</sub> ; bisbenzyl-D <sub>4</sub> , 95%) CP 95%	100 µg/mL in acetonitrile	1.2 mL	¥243,200
<b>NEW!</b> ULM-11211-1.2	2,3,5,6-Tetrafluoro-1,4-benzenedimethanol (unlabeled) CP 95%	100 µg/mL in acetonitrile	1.2 mL	¥46,800
<b>NEW!</b> CDLM-11206-1.2	2,3,5,6-Tetrafluoro-4-methylbenzyl alcohol (methyl- <sup>13</sup> C, 99%; methyl-D <sub>3</sub> , 98%) CP 97%	100 µg/mL in acetonitrile	1.2 mL	¥243,200
<b>NEW!</b> ULM-11207-1.2	2,3,5,6-Tetrafluoro-4-methylbenzyl alcohol (unlabeled) CP 97%	100 µg/mL in acetonitrile	1.2 mL	¥46,800
<b>NEW!</b> CDLM-11208-MT-1.2	2,3,5,6-Tetrafluoro-4-methylbenzoic acid (methyl- <sup>13</sup> C, 99%; methyl-D <sub>3</sub> , 98%)	100 µg/mL in MTBE	Inquire	¥243,200
<b>NEW!</b> ULM-11209-MT-1.2	2,3,5,6-Tetrafluoro-4-methylbenzoic acid (unlabeled) CP 97%	100 µg/mL in MTBE	1.2 mL	¥43,600
<b>NEW!</b> CLM-11204-1.2	2,3,5,6-Tetrafluorobenzyl alcohol (ring- <sup>13</sup> C <sub>6</sub> , 99%) CP 95%	100 µg/mL in acetonitrile	1.2 mL	¥243,200
<b>NEW!</b> ULM-11205-1.2	2,3,5,6-Tetrafluorobenzyl alcohol (unlabeled) CP 95%	100 µg/mL in acetonitrile	1.2 mL	¥46,800

CP = chemical purity

# Tobacco Specific Nitrosamines (TSNAs)

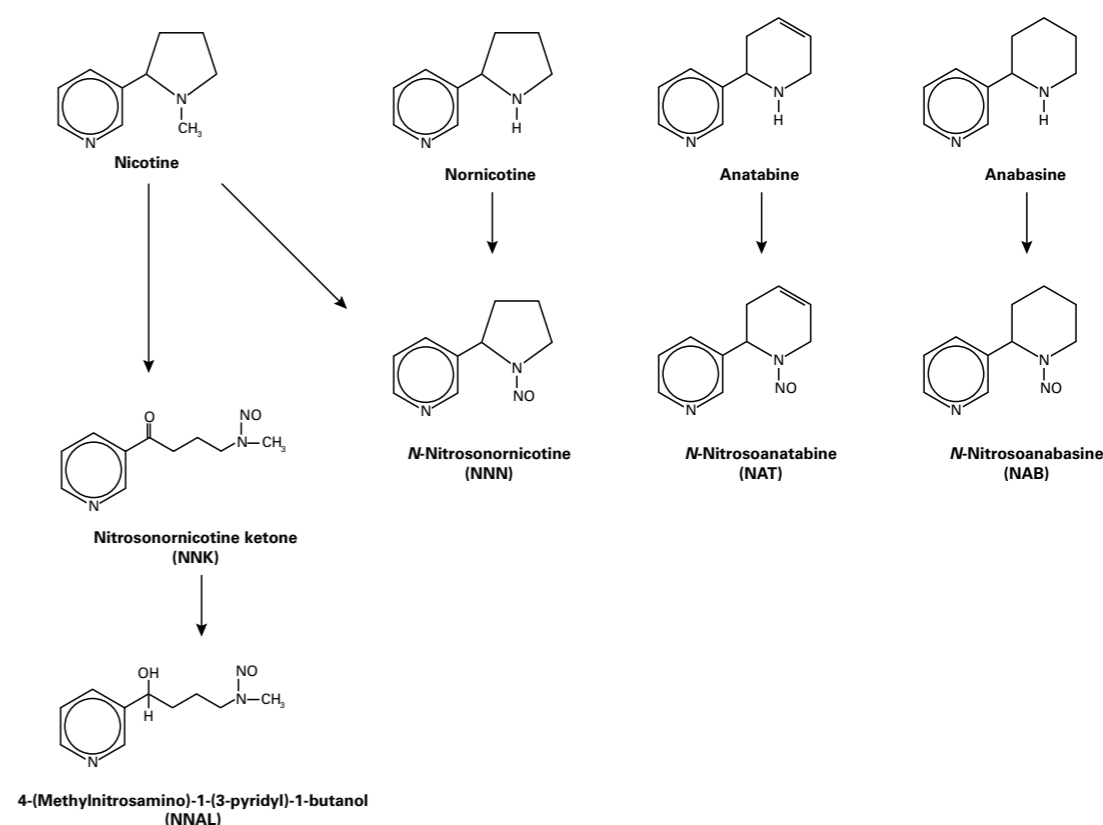
## Featured Products

Catalog No.	Description	Concentration	Amount	Price(¥)
CLM-3914-1.2	DL-Nicotine (3',4',5'- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in acetonitrile	1.2 mL	¥177,000
ULM-9547-1.2	Nicotine (unlabeled)	100 µg/mL in acetonitrile	1.2 mL	¥35,600
CLM-4555-1.2	NNK (1,2',3',4',5',6'- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in nonane/ethanol (90:10)	1.2 mL	¥218,800
CLM-4555-A-1.2	NNK (1,2',3',4',5',6'- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in acetonitrile	1.2 mL	¥218,800
ULM-8987-1.2	NNK (unlabeled)	100 µg/mL in nonane/ethanol (90:10)	1.2 mL	¥47,400
ULM-8987-20X-1.2	NNK (unlabeled)	2 mg/mL in acetonitrile	1.2 mL	¥71,000
CLM-4556-1.2	NNAL (1,2',3',4',5',6'- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in acetonitrile	1.2 mL	¥218,800
ULM-9434-1.2	NNAL (unlabeled)	100 µg/mL in acetonitrile	1.2 mL	¥47,400
ULM-9434-20X-1.2	NNAL (unlabeled)	2 mg/mL in acetonitrile	1.2 mL	¥71,000
CLM-4892-MT-1.2	DL-Nornicotine (3',4',5'- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in MBTE	1.2 mL	¥182,000
ULM-2154-MT-1.2	Nornicotine (unlabeled)	100 µg/mL in MBTE	1.2 mL	お問い合わせ
CLM-4557-1.2	NNN (2,2',3,4,5,6'- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in nonane:ethanol (90:10)	1.2 mL	¥218,800
CLM-4557-A-1.2	NNN (2,2',3,4,5,6'- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in acetonitrile	1.2 mL	¥233,400
ULM-9406-1.2	NNN (unlabeled)	100 µg/mL in acetonitrile	1.2 mL	¥47,400
ULM-9406-20X-1.2	NNN (unlabeled)	2 mg/mL in acetonitrile	1.2 mL	¥71,000
CLM-6651-1.2	Anabasine (2,2',3,4,5,6'- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in acetonitrile	1.2 mL	¥218,800
ULM-7281-1.2	Anabasine (unlabeled)	100 µg/mL in acetonitrile	1.2 mL	¥47,400
CLM-6705-1.2	NAB ( <i>N'</i> -Nitrosoanabasine) ( <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in acetonitrile	1.2 mL	¥218,800
ULM-7168-1.2	NAB ( <i>N'</i> -Nitrosoanabasine) (unlabeled)	500 µg/mL in acetonitrile	1.2 mL	¥47,400
ULM-7168-4X-1.2	NAB ( <i>N'</i> -Nitrosoanabasine) (unlabeled)	2 mg/mL in acetonitrile	1.2 mL	¥71,000
CLM-6652-1.2	Anatabine (2,2',3,4,5,6'- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in acetonitrile	1.2 mL	¥218,800
ULM-7282-1.2	Anatabine (unlabeled)	100 µg/mL in acetonitrile	1.2 mL	¥47,400
CLM-6704-1.2	NAT ( <i>N'</i> -Nitrosoanatabine) ( <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in acetonitrile	1.2 mL	¥218,800
ULM-7207-1.2	NAT ( <i>N'</i> -Nitrosoanatabine) (unlabeled)	2000 µg/mL in acetonitrile	1.2 mL	¥71,000
DLM-1819-1.2	DL-Cotinine (methyl-D <sub>3</sub> , 98%)	100 µg/mL in acetonitrile	1.2 mL	¥116,800
ULM-9614-1.2	Cotinine (unlabeled)	100 µg/mL in acetonitrile	1.2 mL	¥38,000
CLM-4896-1.2	DL-Norcotinine (3',4',5'- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in acetonitrile	1.2 mL	¥194,000
ULM-9615-1.2	Norcotinine (unlabeled)	100 µg/mL in acetonitrile	1.2 mL	¥38,000

Continued ▶

## Related Products

Catalog No.	Description	Concentration	Amount	Price(¥)
<b>NEW!</b> CDLM-11053-1.2	Vitamin E (α-tocopherol) (dimethyl- <sup>13</sup> C <sub>2</sub> , 99%; dimethyl-D <sub>6</sub> , 98%)	100 µg/mL in methanol	1.2 mL	¥136,000
<b>NEW!</b> ULM-9127-1.2	Vitamin E (α-tocopherol) (unlabeled)	100 µg/mL in methanol	1.2 mL	¥33,800
<b>NEW!</b> CDLM-11054-1.2	Vitamin E acetate (dimethyl- <sup>13</sup> C <sub>2</sub> , acetyl- <sup>13</sup> C <sub>2</sub> , 99%; dimethyl-D <sub>6</sub> , 98%)	100 µg/mL in methanol	1.2 mL	¥164,000
<b>NEW!</b> ULM-11055-1.2	Vitamin E acetate (unlabeled)	100 µg/mL in methanol	1.2 mL	¥33,800
<b>NEW!</b> DLM-11063-1.2	Nicotelline (2,2',4,4',5,5',6,6'-D <sub>8</sub> , 97%)	100 µg/mL in acetonitrile	1.2 mL	¥175,000
<b>NEW!</b> ULM-11060-1.2	Nicotelline (unlabeled)	100 µg/mL in acetonitrile	1.2 mL	¥81,000
<b>NEW!</b> ULM-11061-1.2	Nicotelline- <i>N</i> -oxide (unlabeled), mix of regioisomers	100 µg/mL in methanol	1.2 mL	¥97,600
<b>NEW!</b> DLM-11074-1.2	<i>cis/trans</i> -Anatalline-3HCl (D <sub>3</sub> , 98%)	100 µg/mL in methanol-OD	1.2 mL	¥175,000
<b>NEW!</b> ULM-11075-1.2	<i>cis/trans</i> -Anatalline-3HCl (unlabeled)	100 µg/mL in methanol	1.2 mL	¥81,000
DLM-1818	DL-Nicotine (methyl-D <sub>3</sub> , 98%)	TBD – Request		お問い合わせ
CLM-4893	DL-Cotinine- <i>N</i> -oxide (3',4',5'- <sup>13</sup> C <sub>6</sub> , 99%)	TBD – Request		お問い合わせ
DLM-4717	Cotinine glucuronide ( <i>N</i> -methyl-D <sub>3</sub> , 98%)	TBD – Request		お問い合わせ
ULM-4716	Cotinine glucuronide (unlabeled)	TBD – Request		お問い合わせ
DLM-9017	DL-Nornicotine (pyridine-D <sub>4</sub> , 98%)	TBD – Request		お問い合わせ
DLM-6883	Nicotinamide (D <sub>4</sub> , 98%)	TBD – Request		お問い合わせ
DLM-4578	Nicotinic acid (D <sub>4</sub> , 98%)	TBD – Request		お問い合わせ
CNLM-9512-0.001	Nicotinic acid (2,6,carboxyl- <sup>13</sup> C <sub>3</sub> , 99%; <sup>15</sup> N, 98%)	neat	1 mg	お問い合わせ
DLM-2872	Nicotinic acid, ethyl ester (2,4,5,6-D <sub>4</sub> , 98%)	TBD – Request		お問い合わせ
<b>NEW!</b> ULM-11062-1.2	(+)- <i>trans</i> -3'-Hydroxycotinine (unlabeled)	100 µg/mL in acetonitrile	1.2 mL	¥33,800
<b>NEW!</b> ULM-11062-M-1.2	(+)- <i>trans</i> -3'-Hydroxycotinine (unlabeled)	100 µg/mL in methanol	1.2 mL	¥33,800
<b>NEW!</b> ULM-11187-1.2	<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -glucuronide, ammonium salt (unlabeled) CP 97%	100 µg/mL in methanol	1.2 mL	¥45,800
DLM-4412-25	(-)-Menthol (1,2,6,6-D <sub>4</sub> , 98%)	neat	25 mg	¥206,200
<b>NEW!</b> ULM-11045-1.2	Menthol (unlabeled)	1 mg/mL in methanol	1.2 mL	¥45,800
<b>NEW!</b> DLM-6163-1.2	Menthol glucuronide, ammonium salt (1,2,6,6-D <sub>4</sub> , 96-98%)	100 µg/mL in methanol	1.2 mL	¥175,000
<b>NEW!</b> ULM-9093-1.2	Menthol glucuronide, ammonium salt (unlabeled)	100 µg/mL in methanol	1.2 mL	¥45,800





# Toxaphene Congeners

## Featured Products (\* indicates M8276 target analyte)

Catalog No.	Description	Concentration	Amount	Price(¥)
ULM-9428-1.2*	HX-SED (unlabeled)	10 µg/mL in nonane	1.2 mL	¥91,800
ULM-9429-1.2*	HP-SED (unlabeled)	10 µg/mL in nonane	1.2 mL	¥91,800
ULM-7828-1.2*	Parlar 26 (unlabeled)	10 µg/mL in nonane	1.2 mL	¥91,800
ULM-8665-1.2	Parlar 32 (unlabeled)	10 µg/mL in nonane	1.2 mL	¥91,800
ULM-9005-1.2	Parlar 38 (unlabeled)	10 µg/mL in nonane	1.2 mL	¥91,800
ULM-8767-1.2	Parlar 39 (unlabeled)	10 µg/mL in nonane	1.2 mL	¥91,800
ULM-9430-1.2*	Parlar 40 (unlabeled)	10 µg/mL in nonane	1.2 mL	¥91,800
ULM-9431-1.2*	Parlar 41 (unlabeled)	10 µg/mL in nonane	1.2 mL	¥91,800
ULM-9432-1.2*	Parlar 44 (unlabeled)	10 µg/mL in nonane	1.2 mL	¥91,800
ULM-7829-1.2*	Parlar 50 (unlabeled)	10 µg/mL in nonane	1.2 mL	¥91,800
ULM-7830-1.2*	Parlar 62 (unlabeled)	10 µg/mL in nonane	1.2 mL	¥91,800
ULM-8768-1.2	Parlar 69 (unlabeled)	10 µg/mL in nonane	1.2 mL	¥91,800
ULM-8769-1.2	Parlar 70 (unlabeled)	10 µg/mL in nonane	1.2 mL	¥91,800
CLM-7930-1.2	Parlar 26 ( <sup>13</sup> C <sub>10</sub> , 99%)	10 µg/mL in nonane	1.2 mL	¥486,400
CLM-8705-1.2	Parlar 32 ( <sup>13</sup> C <sub>10</sub> , 99%)	10 µg/mL in nonane	1.2 mL	¥486,400
CLM-8719-1.2	Parlar 39 ( <sup>13</sup> C <sub>10</sub> , 99%)	10 µg/mL in nonane	1.2 mL	¥486,400
CLM-7931-1.2	Parlar 50 ( <sup>13</sup> C <sub>10</sub> , 99%)	10 µg/mL in nonane	1.2 mL	¥486,400
CLM-7932-1.2	Parlar 62 ( <sup>13</sup> C <sub>10</sub> , 99%)	10 µg/mL in nonane	1.2 mL	¥486,400
CLM-8720-1.2	Parlar 69 ( <sup>13</sup> C <sub>10</sub> , 99%)	10 µg/mL in nonane	1.2 mL	¥486,400
CLM-8721-1.2	Parlar 70 ( <sup>13</sup> C <sub>10</sub> , 99%)	10 µg/mL in nonane	1.2 mL	¥486,400

1. <http://chm.pops.int/TheConvention/ThePOPs/The12InitialPOPs/tabid/296/Default.aspx>  
 2. <http://www.epa.gov/osw/hazard/testmethods/pdfs/8276.pdf>

Continued ▶

## Related Products

Catalog No.	Description	Amount	Price(¥)																		
ES-5543	US EPA Method 8276 Composite Stock Standard	1.2 mL in nonane	¥133,000																		
	<table border="1"> <thead> <tr> <th>Unlabeled</th> <th>Concentration (ng/mL)</th> </tr> </thead> <tbody> <tr><td>HX-SED</td><td>1000</td></tr> <tr><td>HP-SED</td><td>1000</td></tr> <tr><td>Parlar 26</td><td>1000</td></tr> <tr><td>Parlar 40</td><td>1000</td></tr> <tr><td>Parlar 41</td><td>1000</td></tr> <tr><td>Parlar 44</td><td>1000</td></tr> <tr><td>Parlar 50</td><td>1000</td></tr> <tr><td>Parlar 62</td><td>1000</td></tr> </tbody> </table>	Unlabeled	Concentration (ng/mL)	HX-SED	1000	HP-SED	1000	Parlar 26	1000	Parlar 40	1000	Parlar 41	1000	Parlar 44	1000	Parlar 50	1000	Parlar 62	1000		
Unlabeled	Concentration (ng/mL)																				
HX-SED	1000																				
HP-SED	1000																				
Parlar 26	1000																				
Parlar 40	1000																				
Parlar 41	1000																				
Parlar 44	1000																				
Parlar 50	1000																				
Parlar 62	1000																				
ES-5544	US EPA Method 8276 Surrogate Standard	1.2 mL in nonane	¥220,400																		
	<table border="1"> <thead> <tr> <th>Labeled</th> <th>Concentration (ng/mL)</th> </tr> </thead> <tbody> <tr><td>Parlar 26 (<sup>13</sup>C<sub>10</sub>, 99%)</td><td>100</td></tr> <tr><td>Parlar 50 (<sup>13</sup>C<sub>10</sub>, 99%)</td><td>100</td></tr> <tr><td>Parlar 62 (<sup>13</sup>C<sub>10</sub>, 99%)</td><td>100</td></tr> </tbody> </table>	Labeled	Concentration (ng/mL)	Parlar 26 ( <sup>13</sup> C <sub>10</sub> , 99%)	100	Parlar 50 ( <sup>13</sup> C <sub>10</sub> , 99%)	100	Parlar 62 ( <sup>13</sup> C <sub>10</sub> , 99%)	100												
Labeled	Concentration (ng/mL)																				
Parlar 26 ( <sup>13</sup> C <sub>10</sub> , 99%)	100																				
Parlar 50 ( <sup>13</sup> C <sub>10</sub> , 99%)	100																				
Parlar 62 ( <sup>13</sup> C <sub>10</sub> , 99%)	100																				
ES-5545	US EPA Method 8276 Toxaphene Injection Internal Standard	1.2 mL in nonane	¥75,000																		
	<table border="1"> <thead> <tr> <th>Labeled</th> <th>Concentration (ng/mL)</th> </tr> </thead> <tbody> <tr><td>Parlar 39 (<sup>13</sup>C<sub>10</sub>, 99%)</td><td>100</td></tr> </tbody> </table>	Labeled	Concentration (ng/mL)	Parlar 39 ( <sup>13</sup> C <sub>10</sub> , 99%)	100																
Labeled	Concentration (ng/mL)																				
Parlar 39 ( <sup>13</sup> C <sub>10</sub> , 99%)	100																				





## Neonicotinoid Pesticides

## Neonicotinoid Pesticides

Catalog No.	Description	Concentration	Amount	Price(¥)
CLM-9653-1.2	Acetamiprid (pyridylmethyl- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in methanol	1.2 mL	¥177,000
ULM-9734-1.2	Acetamiprid (unlabeled)	100 µg/mL in methanol	1.2 mL	¥35,400
CNLM-9940-1.2	Clothianidin (methylene- <sup>13</sup> C, 99%; thiazole- <sup>13</sup> C <sub>3</sub> , 99%; <sup>15</sup> N, 98%)	100 µg/mL in methanol	1.2 mL	¥177,000
ULM-9941-1.2	Clothianidin (unlabeled)	100 µg/mL in methanol	1.2 mL	¥35,400
CLM-9594-1.2	Dinotefuran (furylmethyl- <sup>13</sup> C <sub>5</sub> , 99%)	100 µg/mL in methanol	1.2 mL	¥177,000
ULM-9732-1.2	Dinotefuran (unlabeled)	100 µg/mL in methanol	1.2 mL	¥35,400
NOLM-10860-1.2	Flonicamid ( <sup>18</sup> O, 96%; amide- <sup>15</sup> N, 98%)	100 µg/mL in methanol	1.2 mL	¥131,600
ULM-10861-1.2	Flonicamid (unlabeled)	100 µg/mL in methanol	1.2 mL	¥33,400
CLM-10767-1.2	Imidacloprid (pyridylmethyl- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in methanol	1.2 mL	¥173,400
DLM-8512-1.2	Imidacloprid (4,4,5,5-D <sub>4</sub> , 98%)	100 µg/mL in methanol	1.2 mL	¥135,200
ULM-8513-1.2	Imidacloprid (unlabeled)	100 µg/mL in methanol	1.2 mL	¥35,400
CNLM-10545-1.2	Nitenpyram (methyl- <sup>13</sup> C, ethyl- <sup>13</sup> C <sub>2</sub> , 99%; ethenediamine- <sup>15</sup> N <sub>2</sub> , 98%)	100 µg/mL in methanol	1.2 mL	¥156,000
ULM-10670-1.2	Nitenpyram (unlabeled)	100 µg/mL in methanol	1.2 mL	¥33,400
CDNLM-10884-1.2	Sulfoxaflor (2-methyl- <sup>13</sup> C, 99%; D <sub>3</sub> , 98%; cyanamide- <sup>15</sup> N <sub>2</sub> , 98%; <sup>13</sup> C, 98%)	100 µg/mL in methanol	1.2 mL	¥185,200
CNLM-9869-1.2	Sulfoxaflor (cyano- <sup>13</sup> C, 99%; cyano- <sup>15</sup> N, imine- <sup>15</sup> N, 98%)	100 µg/mL in methanol	1.2 mL	¥180,000
ULM-9870-1.2	Sulfoxaflor (unlabeled) mix of geometric isomers	100 µg/mL in methanol	1.2 mL	¥35,400
CLM-9652-1.2	Thiacloprid (pyridylmethyl- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in methanol	1.2 mL	¥177,000
ULM-9733-1.2	Thiacloprid (unlabeled)	100 µg/mL in methanol	1.2 mL	¥35,400
CNLM-9860-1.2	Thiamethoxam (methylene- <sup>13</sup> C, 99%; thiazole- <sup>13</sup> C <sub>3</sub> , 99%; <sup>15</sup> N, 98%)	100 µg/mL in methanol	1.2 mL	¥180,000
ULM-9939-1.2	Thiamethoxam (unlabeled)	100 µg/mL in methanol	1.2 mL	¥35,400

## Neonicotinoid Pesticide Metabolites

Catalog No.	Description	Concentration	Amount	Price(¥)
CNLM-10862-1.2	Acetamiprid- <i>N</i> -desmethyl (acetimidamide- <sup>13</sup> C <sub>2</sub> , 99%; amine- <sup>15</sup> N, 98%)	100 µg/mL in methanol	1.2 mL	¥173,400
ULM-10863-1.2	Acetamiprid- <i>N</i> -desmethyl (unlabeled)	100 µg/mL in methanol	1.2 mL	¥33,400
CLM-9598-1.2	6-Chloronicotinic acid ( <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in MTBE	1.2 mL	¥180,000
ULM-9604-1.2	6-Chloronicotinic acid (unlabeled)	100 µg/mL in MTBE	1.2 mL	¥35,400
CNLM-10864-1.2	Clothianidin-desmethyl (guanidine- <sup>13</sup> C, 99%; 1,3- <sup>15</sup> N <sub>2</sub> , 98%)	100 µg/mL in methanol	1.2 mL	¥173,400
ULM-10865-1.2	Clothianidin-desmethyl (unlabeled)	100 µg/mL in methanol	1.2 mL	¥33,400
<b>NEW!</b> CNLM-11069-1.2	4-Hydroxy-imidacloprid (2- <sup>13</sup> C, 99%; 3- <sup>15</sup> N, 2-amino- <sup>15</sup> N, 98%)	100 µg/mL in methanol	1.2 mL	¥173,400
<b>NEW!</b> ULM-11070-1.2	4-Hydroxy-imidacloprid (unlabeled)	100 µg/mL in methanol	1.2 mL	¥33,400
<b>NEW!</b> CNLM-11067-1.2	5-Hydroxy-imidacloprid (2- <sup>13</sup> C, 99%; 3- <sup>15</sup> N, 2-amino- <sup>15</sup> N, 98%)	100 µg/mL in methanol	1.2 mL	¥171,000
<b>NEW!</b> ULM-11068-1.2	5-Hydroxy-imidacloprid (unlabeled)	100 µg/mL in methanol	1.2 mL	¥33,000

Continued ▶

Catalog No.	Description	Concentration	Amount	Price(¥)
CNLM-10866-1.2	Imidacloprid-olefin (imidazole-1- <sup>15</sup> N, 98%; 2- <sup>13</sup> C, 99%; 2-amino- <sup>15</sup> N, 98%)	100 µg/mL in methanol	1.2 mL	¥158,400
ULM-10867-1.2	Imidacloprid-olefin (unlabeled) CP 97%	100 µg/mL in methanol	1.2 mL	¥33,400
CLM-9690-1.2	3-Tetrahydrofuroic acid ( <sup>13</sup> C <sub>5</sub> , 99%)	100 µg/mL in MTBE	1.2 mL	¥161,000
ULM-9691-1.2	3-Tetrahydrofuroic acid (unlabeled)	100 µg/mL in MTBE	1.2 mL	¥35,400
CLM-10868-1.2	Thiacloprid-amide (pyridylmethyl- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in methanol	1.2 mL	¥193,400
ULM-10869-1.2	Thiacloprid-amide (unlabeled)	100 µg/mL in methanol	1.2 mL	¥33,400

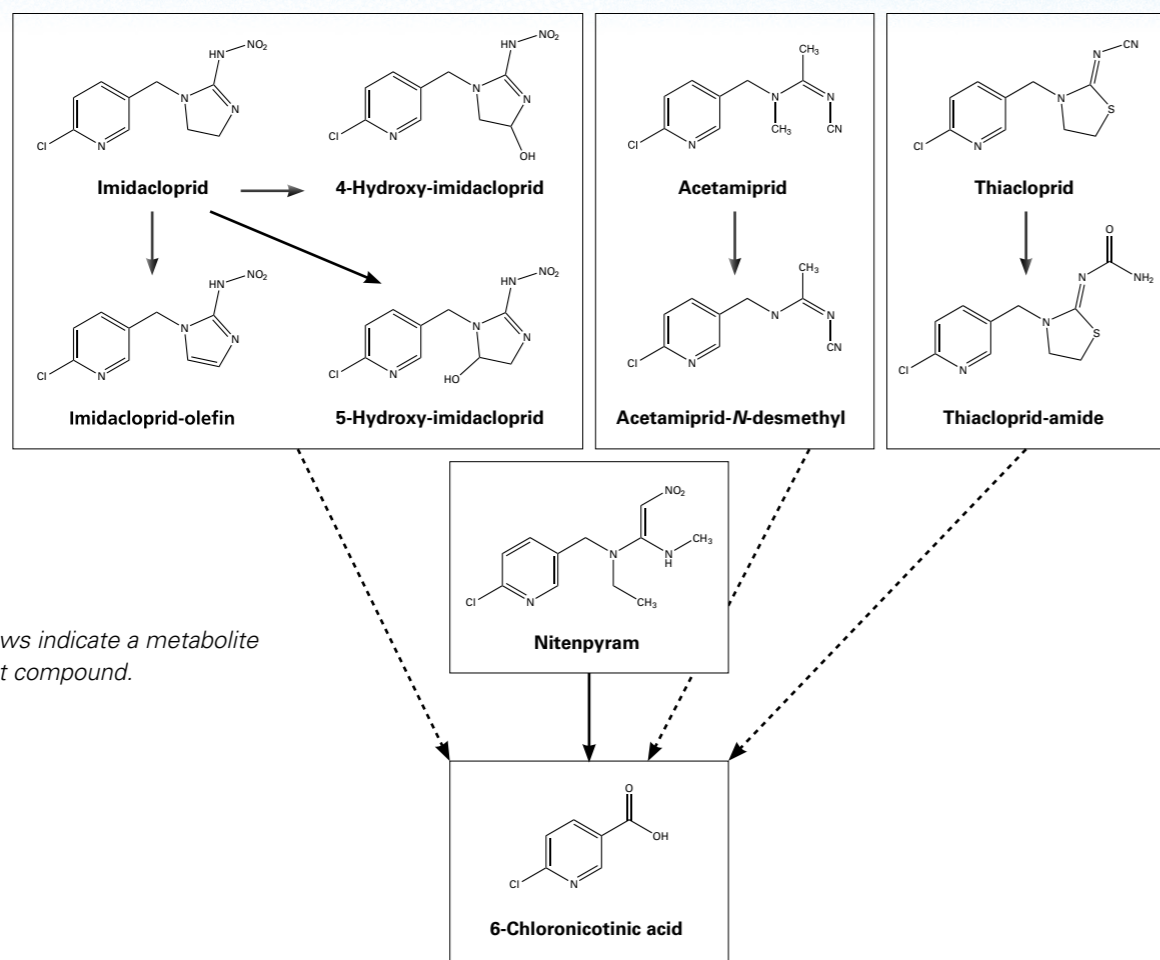
## Neonicotinoid Mixtures

Catalog No.	Description	Amount	Price(¥)
<b>NEW!</b> ES-5634	JECS Labeled Neonicotinoid Mixture	1.2 mL in methanol	¥336,000

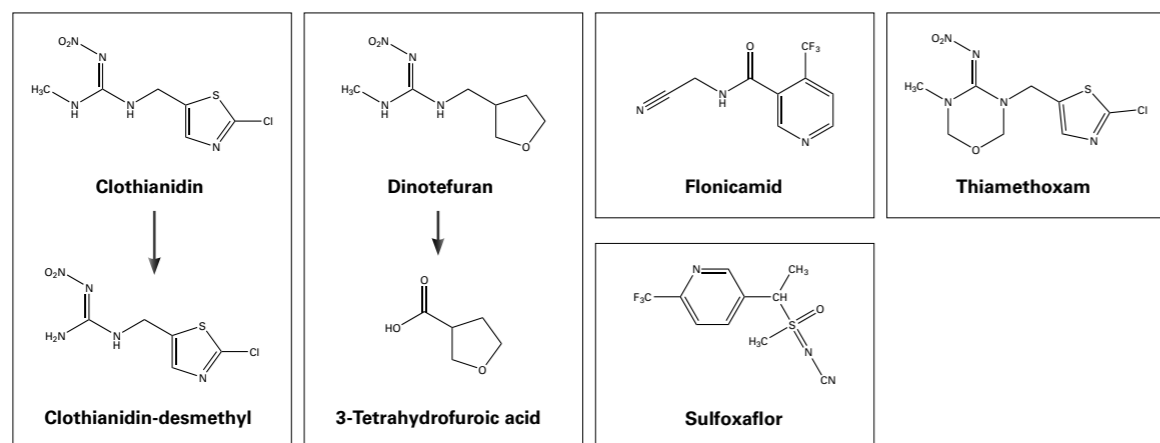
Labeled	(ng/mL)
Acetamiprid (pyridylmethyl- <sup>13</sup> C <sub>6</sub> , 99%)	20
Clothianidin (methylene- <sup>13</sup> C, 99%; thiazole- <sup>13</sup> C <sub>3</sub> , 99%; <sup>15</sup> N, 98%)	200
Dinotefuran (furylmethyl- <sup>13</sup> C <sub>5</sub> , 99%)	200
Flonicamid (18O, 96%; amide- <sup>15</sup> N, 98%)	800
Imidacloprid (pyridylmethyl- <sup>13</sup> C <sub>6</sub> , 99%)	200
Nitenpyram (methyl- <sup>13</sup> C, ethyl- <sup>13</sup> C <sub>2</sub> , 99%; ethenediamine- <sup>15</sup> N <sub>2</sub> , 98%)	200
Sulfoxaflor (2-methyl- <sup>13</sup> C, 99%; D <sub>3</sub> , 98%; cyanamide- <sup>15</sup> N <sub>2</sub> , 98%; <sup>13</sup> C, 98%)	40
Thiacloprid (pyridylmethyl- <sup>13</sup> C <sub>6</sub> , 99%)	20
Thiamethoxam (methylene- <sup>13</sup> C, 99%; thiazole- <sup>13</sup> C <sub>3</sub> , 99%; <sup>15</sup> N, 98%)	80
Acetamiprid- <i>N</i> -desmethyl (acetimidamide- <sup>13</sup> C <sub>2</sub> , 99%; amine- <sup>15</sup> N, 98%)	400
Clothianidin-desmethyl (guanidine- <sup>13</sup> C, 99%; 1,3- <sup>15</sup> N <sub>2</sub> , 98%)	1600
Imidacloprid-olefin (imidazole-1- <sup>15</sup> N, 98%; 2- <sup>13</sup> C, 99%; 2-amino- <sup>15</sup> N, 98%)	4000
Thiacloprid-amide (pyridylmethyl- <sup>13</sup> C <sub>6</sub> , 99%)	40

Catalog No.	Description	Amount	Price(¥)
<b>NEW!</b> ES-5627	JECS Native Neonicotinoid Mixture	1.2 mL in methanol	¥29,000

Unlabeled	(ng/mL)
Acetamiprid	100
Clothianidin	1000
Dinotefuran	1000
Flonicamid	2000
Imidacloprid	1000
Nitenpyram	1000
Sulfoxaflor	200
Thiacloprid	100
Thiamethoxam	400
Acetamiprid- <i>N</i> -desmethyl	1000
Clothianidin-desmethyl	4000
Imidacloprid-olefin	20,000
Thiacloprid-amide	200



Dashed arrows indicate a metabolite of the parent compound.





# Per- and Polyfluoroalkyl Substances (PFAS)

## Perfluorocarboxylic Acids (PFCA)

Catalog No.	Description	Concentration	Amount	Price(¥)
<b>NEW!</b> CLM-11046-1.2	Trifluoroacetic acid (TFA), sodium salt ( <sup>13</sup> C <sub>2</sub> , 99%)	50 µg/mL in methanol	1.2 mL	¥156,000
<b>NEW!</b> ULM-11087-1.2	Trifluoroacetic acid (TFA), sodium salt (unlabeled)	50 µg/mL in methanol	1.2 mL	¥33,000
<b>NEW!</b> CLM-11324-1.2	Perfluoropropanoic acid (PFPrA) ( <sup>13</sup> C <sub>3</sub> , 99%)	50 µg/mL in methanol	1.2 mL	お問い合わせ
<b>NEW!</b> ULM-11323-1.2	Perfluoropropanoic acid (PFPrA) (unlabeled)	50 µg/mL in methanol	1.2 mL	¥156,000
CLM-10883-1.2	Perfluorobutyric acid (PFBA), sodium salt (2,3,4- <sup>13</sup> C <sub>3</sub> , 99%)	50 µg/mL in methanol	1.2 mL	¥156,000
CLM-8173-1.2	Perfluorobutyric acid (PFBA), sodium salt ( <sup>13</sup> C <sub>4</sub> , 99%)	50 µg/mL in methanol	1.2 mL	¥171,000
ULM-11058-1.2	Perfluorobutyric acid (PFBA), sodium salt (unlabeled)	50 µg/mL in methanol	1.2 mL	¥33,000
CLM-10931-1.2	Perfluoropentanoic acid (PFPeA), sodium salt (pentanoyl- <sup>13</sup> C <sub>5</sub> , 99%)	50 µg/mL in methanol	1.2 mL	¥171,000
ULM-10960-1.2	Perfluoropentanoic acid (PFPeA), sodium salt (unlabeled)	50 µg/mL in methanol	1.2 mL	¥29,000
CLM-8340-1.2	Perfluorohexanoic acid (PFHxA), sodium salt ( <sup>13</sup> C <sub>6</sub> , 99%)	50 µg/mL in methanol	1.2 mL	¥176,400
ULM-8342-1.2	Perfluorohexanoic acid (PFHxA), sodium salt (unlabeled)	50 µg/mL in methanol	1.2 mL	¥34,400
CLM-10624-1.2	Perfluoroheptanoic acid (PFHpA), sodium salt ( <sup>13</sup> C <sub>7</sub> , 99%)	50 µg/mL in methanol	1.2 mL	¥149,000
ULM-9516-1.2	Perfluoroheptanoic acid (PFHpA) (unlabeled)	50 µg/mL in methanol	1.2 mL	¥34,400
CLM-8005-1.2	Perfluorooctanoic acid (PFOA) ( <sup>13</sup> C <sub>8</sub> , 99%)	50 µg/mL in methanol	1.2 mL	¥176,400
ULM-7451-1.2	Perfluorooctanoic acid (PFOA) (unlabeled)	50 µg/mL in methanol	1.2 mL	¥34,400
CLM-8060-1.2	Perfluorononanoic acid (PFNA) ( <sup>13</sup> C <sub>9</sub> , 99%)	50 µg/mL in methanol	1.2 mL	¥176,400
ULM-8066-1.2	Perfluorononanoic acid (PFNA) (unlabeled)	50 µg/mL in methanol	1.2 mL	¥34,400
CLM-8172-1.2	Perfluorodecanoic acid (PFDA) ( <sup>13</sup> C <sub>9</sub> , 99%)	50 µg/mL in methanol	1.2 mL	¥202,400
ULM-11038-1.2	Perfluorodecanoic acid (PFDA), sodium salt (unlabeled)	50 µg/mL in methanol	1.2 mL	¥29,000
CLM-8789-1.2	Perfluoroundecanoic acid (PFUA), sodium salt ( <sup>13</sup> C <sub>9</sub> , 99%)	50 µg/mL in methanol	1.2 mL	¥202,400
ULM-8084-1.2	Perfluoroundecanoic acid (PFUA), sodium salt (unlabeled)	50 µg/mL in methanol	1.2 mL	¥34,400
CLM-10593-1.2	Perfluorododecanoic acid (PFDoA), sodium salt ( <sup>13</sup> C <sub>12</sub> , 99%)	50 µg/mL in methanol	1.2 mL	¥173,000
ULM-10594-1.2	Perfluorododecanoic acid (PFDoA), sodium salt (unlabeled)	50 µg/mL in methanol	1.2 mL	¥29,000
ULM-9955-1.2	Perfluorotridecanoic acid (PFTrDA) (unlabeled)	50 µg/mL in methanol	1.2 mL	¥34,400
ULM-9956-1.2	Perfluorotetradecanoic acid (PFTeDA) (unlabeled)	50 µg/mL in methanol	1.2 mL	¥34,400
<b>NEW!</b> ULM-10721-1.2	Perfluorohexadecanoic acid (PFHxDA) (unlabeled)	50 µg/mL in methanol	1.2 mL	¥29,000
<b>NEW!</b> ULM-10722-1.2	Perfluorooctadecanoic acid (PFODA) (unlabeled)	50 µg/mL in methanol	1.2 mL	¥29,000
ES-5587	Perfluoroalkylcarboxylic acid (PFCA) C <sub>4</sub> -C <sub>14</sub> Native Mixture		1.2 mL in methanol	¥75,000

Unlabeled	(ng/mL)*	Unlabeled	(ng/mL)
Perfluorobutyric acid (PFBA)	2000	Perfluorodecanoic acid (PFDA)	2000
Perfluoropentanoic acid (PFPA)	2000	Perfluoroundecanoic acid (PFUA), sodium salt	2000
Perfluorohexanoic acid (PFHxA), sodium salt	2000	Perfluorododecanoic acid (PFDoA)	2000
Perfluoroheptanoic acid (PFHpA)	2000	Perfluorotridecanoic acid (PFTrA)	2000
Perfluorooctanoic acid (PFOA)	2000	Perfluorotetradecanoic acid (PFTeA)	2000
Perfluorononanoic acid (PFNA)	2000		

\*Gravimetric concentration is based on the salt form, where applicable.

## Perfluoroalkyl Sulfonates (PFAS)

Catalog No.	Description	Concentration	Amount	Price(¥)
CLM-9523-1.2	Perfluorobutanesulfonate (PFBS), potassium salt ( <sup>13</sup> C <sub>4</sub> , 99%)	50 µg/mL in methanol	Inquire	お問い合わせ
ULM-9521-1.2	Perfluorobutanesulfonate (PFBS), potassium salt (unlabeled)	50 µg/mL in methanol	1.2 mL	¥34,400
ULM-9520-1.2	Perfluoropentanesulfonate (PFPeS), sodium salt (unlabeled)	50 µg/mL in methanol	1.2 mL	¥34,400
CLM-9526-1.2	Perfluorohexanesulfonate (PFHxS), potassium salt ( <sup>13</sup> C <sub>6</sub> , 99%)	50 µg/mL in methanol	1.2 mL	¥149,000
<b>NEW!</b> ULM-12310-1.2	Potassium perfluoro-1-hexanesulfonate (PFHxS) (unlabeled) (linear isomer)	50 µg/mL in methanol	1.2 mL	¥44,000
ULM-9524-1.2	Perfluorohexanesulfonate (PFHxS), potassium salt (unlabeled) (mix of isomers)	50 µg/mL in methanol	1.2 mL	¥34,400
ULM-9531-1.2	Perfluoroheptanesulfonate (PFHpS), sodium salt (unlabeled)	50 µg/mL in methanol	1.2 mL	¥34,400
<b>NEW!</b> CLM-11340-1.2	Potassium perfluoro-1-octanesulfonate (PFOS) ( <sup>13</sup> C <sub>8</sub> , 99%)	50 µg/mL in methanol	1.2 mL	お問い合わせ
ULM-9001-1.2	Perfluorooctanesulfonate (PFOS), sodium salt (unlabeled)	50 µg/mL in methanol	1.2 mL	¥34,400
ULM-10655-1.2	Perfluorooctanesulfonate (PFOS) (unlabeled) (mix of isomers)	50 µg/mL in methanol	1.2 mL	¥29,000
ULM-9530-1.2	Perfluorononanesulfonate (PFNS), sodium salt (unlabeled)	50 µg/mL in methanol	1.2 mL	¥34,400
<b>NEW!</b> ULM-12322-1.2	Perfluorodecanesulfonate (PFDS), potassium salt (unlabeled)	50 µg/mL in methanol	1.2 mL	¥29,000
ES-5576-A	Perfluoroalkylsulfonate (PFAS) C <sub>4</sub> -C <sub>10</sub> Native Mixture		1.2 mL in methanol	¥98,000

Unlabeled	(ng/mL)*
Perfluorobutanesulfonate (PFBS), potassium salt	5000
Perfluoropentanesulfonate (PFPeS), sodium salt	5000
Potassium perfluorohexanesulfonate (PFHxS) (mix of isomers)	5000
Perfluoroheptanesulfonate (PFHpS), sodium salt	5000
Sodium perfluoro-1-octanesulfonate (PFOS)	5000
Perfluorononanesulfonate (PFNS), sodium salt	5000
Perfluorodecanesulfonate (PFDS), potassium salt	5000

\*Gravimetric concentration is based on the salt form, where applicable.



**PFOS/PFOA Mixtures**

Catalog No.	Description	Amount	Price(¥)
ES-5570	PFOS/PFOA Calibration Series CS1-CS5	5 × 0.25 mL in methanol	¥209,000
ES-5570-CS0.25	PFOS/PFOA Calibration Series CS0.25	0.25 mL in methanol	¥59,000

*All concentrations are in ng/mL \**

Unlabeled	CS0.25**	CS1	CS2	CS3	CS4	CS5
Perfluorooctanoic acid (PFOA)	0.5	2	10	50	200	1000
Perfluorooctanesulfonate (PFOS), sodium salt	0.5	2	10	50	200	1000
Extraction						
Perfluorooctanoic acid (PFOA) ( <sup>13</sup> C <sub>9</sub> , 99%)	50	50	50	50	50	50
Perfluorooctanesulfonate (PFOS), sodium salt ( <sup>13</sup> C <sub>9</sub> , 99%)	50	50	50	50	50	50
Injection						
Perfluorononanoic acid (PFNA) ( <sup>13</sup> C <sub>9</sub> , 99%)	50	50	50	50	50	50

\*Gravimetric concentration is based on the salt form, where applicable. \*\*Not included in ES-5570 – available for separate purchase.

ES-5571	PFOS/PFOA Extraction Standard Mixture	3 mL in methanol	¥135,000
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Labeled	(ng/mL)*
Perfluorooctanoic acid (PFOA) ( <sup>13</sup> C <sub>8</sub> , 99%)	2000
Perfluorooctanesulfonate (PFOS), sodium salt ( <sup>13</sup> C <sub>8</sub> , 99%)	2000

\*Gravimetric concentration is based on the salt form, where applicable.

ES-5572	PFOS/PFOA Injection Standard Mixture	3 mL in methanol	¥75,000
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Labeled	(ng/mL)*
Perfluorononanoic acid (PFNA) ( <sup>13</sup> C <sub>9</sub> , 99%)	2000

\*Gravimetric concentration is based on the salt form, where applicable.

ES-5573	PFOS/PFOA Native Standard Mixture	1.2 mL in methanol	¥38,000
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Unlabeled	(ng/mL)*
Perfluorooctanoic acid (PFOA)	5000
Perfluorooctanesulfonate (PFOS), sodium salt	5000

\*Gravimetric concentration is based on the salt form, where applicable.

<b>NEW!</b> ES-5649	PFOS/PFOA/PFHxS Labeled Standard Mixture	1.2 mL in methanol	¥111,000
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Labeled	(ng/mL)*
Sodium perfluoro-1-octanesulfonate (PFOS) ( <sup>13</sup> C <sub>8</sub> , 99%)	2000
Perfluoro- <i>n</i> -octanoic acid (PFOA) ( <sup>13</sup> C <sub>8</sub> , 99%)	2000
Potassium perfluoro-1-hexanesulfonate (PFHxS) ( <sup>13</sup> C <sub>6</sub> , 99%)	2000

\*Gravimetric concentration is based on the free acid, where applicable.

<b>NEW!</b> ES-5648	PFOS/PFOA/PFHxS Native Analyte Mixture	1.2 mL in methanol	¥42,000
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Unlabeled	(ng/mL)*
Sodium perfluoro-1-octanesulfonate (PFOS)	5000
Perfluoro- <i>n</i> -octanoic acid (PFOA)	5000
Potassium perfluoro-1-hexanesulfonate (PFHxS) (linear isomer)	5000

\*Gravimetric concentration is based on the free acid, where applicable.

**Fluorotelomer Sulfonates (FTS)**

Catalog No.	Description	Concentration	Amount	Price(¥)
CDLM-10753-1.2	1H,1H,2H,2H-Perfluorohexanesulfonate (4:2 FTS), sodium salt ( <sup>13</sup> C <sub>2</sub> , 99%; D <sub>4</sub> , 98%)	50 µg/mL in methanol	1.2 mL	¥171,000
ULM-10757-1.2	1H,1H,2H,2H-Perfluorohexanesulfonate (4:2 FTS), sodium salt (unlabeled)	50 µg/mL in methanol	1.2 mL	¥33,000
CDLM-10752-1.2	1H,1H,2H,2H-Perfluorooctanesulfonate (6:2 FTS), sodium salt ( <sup>13</sup> C <sub>2</sub> , 99%; D <sub>4</sub> , 98%)	50 µg/mL in methanol	1.2 mL	¥171,000
ULM-10756-1.2	1H,1H,2H,2H-Perfluorooctanesulfonate (6:2 FTS), sodium salt (unlabeled)	50 µg/mL in methanol	1.2 mL	¥33,000
CDLM-10751-1.2	1H,1H,2H,2H-Perfluorodecenesulfonate (8:2 FTS), sodium salt ( <sup>13</sup> C <sub>2</sub> , 99%; D <sub>4</sub> , 98%)	50 µg/mL in methanol	1.2 mL	¥171,000
ULM-10755-1.2	1H,1H,2H,2H-Perfluorodecenesulfonate (8:2 FTS), sodium salt (unlabeled)	50 µg/mL in methanol	1.2 mL	¥33,000
CDLM-10750-1.2	1H,1H,2H,2H-Perfluorododecenesulfonate (10:2 FTS), sodium salt ( <sup>13</sup> C <sub>2</sub> , 99%; D <sub>4</sub> , 98%)	50 µg/mL in methanol	1.2 mL	¥171,000
ULM-10754-1.2	1H,1H,2H,2H-Perfluorododecenesulfonate (10:2 FTS), sodium salt (unlabeled)	50 µg/mL in methanol	1.2 mL	¥33,000

**Fluorotelomer Alcohols (FTOH)**

Catalog No.	Description	Concentration	Amount	Price(¥)
<b>NEW!</b> ULM-10723-1.2	1H,1H,2H,2H-Perfluoro-1-hexanol (4:2 FTOH) (unlabeled)	100 µg/mL in methanol	1.2 mL	¥32,800
<b>NEW!</b> CDLM-10709-1.2	1H,1H,2H,2H-Perfluoro-1-octanol (6:2 FTOH) (1,2- <sup>13</sup> C <sub>2</sub> , 99%; 1,1,2,2-D <sub>4</sub> , 98%)	50 µg/mL in methanol	1.2 mL	¥169,800
<b>NEW!</b> ULM-10724-1.2	1H,1H,2H,2H-Perfluoro-1-octanol (6:2 FTOH) (unlabeled)	100 µg/mL in methanol	1.2 mL	¥32,800
<b>NEW!</b> CDLM-10712-1.2	1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH) (1,2- <sup>13</sup> C <sub>2</sub> , 99%; 1,1,2,2-D <sub>4</sub> , 98%) CP 95%	50 µg/mL in methanol	1.2 mL	¥169,800
ULM-10727-1.2	1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH) (unlabeled)	100 µg/mL in methanol	1.2 mL	¥44,200
<b>NEW!</b> CDLM-10715-1.2	1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2 FTOH) (1,2- <sup>13</sup> C <sub>2</sub> , 99%; 1,1,2,2-D <sub>4</sub> , 98%)	50 µg/mL in methanol	1.2 mL	¥169,800
<b>NEW!</b> ULM-11175-1.2	1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2 FTOH) (unlabeled)	50 µg/mL in methanol	1.2 mL	¥44,200

**Fluorotelomer Acids (FTA)**

Catalog No.	Description	Concentration	Amount	Price(¥)
<b>NEW!</b> ULM-10725-1.2	2H,2H-Perfluorooctanoic acid (6:2 FTA) (unlabeled)	100 µg/mL in methanol	1.2 mL	¥44,200
<b>NEW!</b> ULM-10726-1.2	2H,2H-Perfluorodecanoic acid (8:2 FTA) (unlabeled)	100 µg/mL in methanol	1.2 mL	¥44,200

**Perfluorooctanesulfonamidoacetic Acids (FOSAA)**

Catalog No.	Description	Concentration	Amount	Price(¥)
DLM-10663-1.2	<i>N</i> -Methylperfluorooctanesulfonamidoacetic acid ( <i>N</i> -MeFOSAA) ( <i>N</i> -methyl-D <sub>9</sub> , 98%)	50 µg/mL in methanol	1.2 mL	¥156,000
ULM-10656-1.2	<i>N</i> -Methylperfluorooctanesulfonamidoacetic acid ( <i>N</i> -MeFOSAA) (unlabeled) (mix of isomers)	50 µg/mL in methanol	1.2 mL	¥44,000
DLM-10664-1.2	<i>N</i> -Ethylperfluorooctanesulfonamidoacetic acid ( <i>N</i> -EtFOSAA) ( <i>N</i> -ethyl-D <sub>9</sub> , 98%)	50 µg/mL in methanol	1.2 mL	¥156,000
ULM-10657-1.2	<i>N</i> -Ethylperfluorooctanesulfonamidoacetic acid ( <i>N</i> -EtFOSAA) (unlabeled) (mix of isomers)	50 µg/mL in methanol	1.2 mL	¥44,000

**Perfluorooctanesulfonamides (FOSA)**

Catalog No.	Description	Concentration	Amount	Price(¥)
<b>NEW!</b> ULM-11129-1.2	Perfluorobutanesulfonamide (PFBSA) (unlabeled)	50 µg/mL in methanol	1.2 mL	¥44,000
<b>NEW!</b> ULM-11130-1.2	Perfluorohexanesulfonamide (PFHxSA) (unlabeled)	50 µg/mL in methanol	1.2 mL	¥44,200
CLM-11007-1.2	Perfluorooctanesulfonamide (PFOSA) ( <sup>13</sup> C <sub>8</sub> , 99%)	50 µg/mL in methanol	Inquire	お問い合わせ
ULM-10977-1.2	Perfluorooctanesulfonamide (PFOSA) (unlabeled) (mix of isomers)	50 µg/mL in methanol	1.2 mL	¥44,200
<b>NEW!</b> ULM-11309-1.2	Perfluorooctanesulfonamide (PFOSA) (unlabeled) (linear isomer)	50 µg/mL in methanol	1.2 mL	¥44,200
DLM-10740-1.2	<i>N</i> -Methylperfluorooctanesulfonamide ( <i>N</i> -MeFOSA) (D <sub>9</sub> , 98%)	100 µg/mL in methanol	1.2 mL	¥156,000
ULM-10779-1.2	<i>N</i> -Methylperfluorooctanesulfonamide ( <i>N</i> -MeFOSA) (unlabeled)	100 µg/mL in methanol	1.2 mL	¥44,000
DLM-10741-1.2	<i>N</i> -Ethylperfluorooctanesulfonamide ( <i>N</i> -EtFOSA) (D <sub>9</sub> , 98%)	100 µg/mL in methanol	1.2 mL	¥156,000
ULM-10780-1.2	<i>N</i> -Ethylperfluorooctanesulfonamide ( <i>N</i> -EtFOSA) (unlabeled)	100 µg/mL in methanol	1.2 mL	¥44,000

**Perfluorooctanesulfonamido Ethanols (FOSE)**

Catalog No.	Description	Concentration	Amount	Price(¥)
<b>NEW!</b> DLM-11035-1.2	<i>N</i> -Methylperfluorooctanesulfonamidoethanol ( <i>N</i> -MeFOSE) ( <i>N</i> -methyl-D <sub>9</sub> , 98%)	50 µg/mL in methanol	1.2 mL	¥189,400
<b>NEW!</b> ULM-11034-1.2	<i>N</i> -Methylperfluorooctanesulfonamidoethanol ( <i>N</i> -MeFOSE) (unlabeled) (mix of isomers)	50 µg/mL in methanol	1.2 mL	¥44,200
<b>NEW!</b> DLM-11037-1.2	<i>N</i> -Ethylperfluorooctanesulfonamidoethanol ( <i>N</i> -EtFOSE) ( <i>N</i> -ethyl-D <sub>9</sub> , 98%)	50 µg/mL in methanol	1.2 mL	¥189,400
<b>NEW!</b> ULM-11036-1.2	<i>N</i> -Ethylperfluorooctanesulfonamidoethanol ( <i>N</i> -EtFOSE) (unlabeled) (mix of isomers)	50 µg/mL in methanol	1.2 mL	¥44,200



Fluoroethers and Polyethers

Catalog No.	Description	Concentration	Amount	Price(¥)
ULM-10728-1.2	"GenX" (tetrafluoro-2-(heptafluoropropoxy)propanoic acid) (HFPO-DA) (unlabeled)	100 µg/mL in methanol	1.2 mL	¥44,000
ULM-11280-1.2	Dodecafluoro-3H-4,8-dioxanonanoic acid (DONA) (unlabeled)	100 µg/mL in methanol	Inquire	¥40,800
ULM-10843-1.2	9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid, potassium salt (9Cl-PF3ONS) (F53BMAJ) (unlabeled)	100 µg/mL in methanol	1.2 mL	¥33,000
ULM-10844-1.2	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid, potassium salt (11Cl-PF3OUdS) (F53BMIN) (unlabeled)	100 µg/mL in methanol	1.2 mL	¥33,000
<b>NEW!</b> ULM-11230-1.2	Perfluoro-3,6-dioxo-4-methyl-7-octenesulfonic acid (Nafion BP1) (unlabeled)	50 µg/mL in methanol	1.2 mL	¥44,200
<b>NEW!</b> ULM-11231-1.2	7H-Perfluoro-4-methyl-3,6-dioxaoctanesulfonic acid (Nafion BP2) (unlabeled) CP 95%	50 µg/mL in methanol	1.2 mL	¥44,200
<b>NEW!</b> ULM-12320-1.2	Perfluoro-2-methoxypropanoic acid (PMPA) (unlabeled) (contains ~1.8% NaPEPA) CP 97%	50 µg/mL in methanol	1.2 mL	¥44,200
<b>NEW!</b> ULM-12321-1.2	Perfluoro-2-ethoxypropanoic acid, sodium salt (PEPA) (unlabeled) (contains ~2.4% PMPA)	50 µg/mL in methanol	1.2 mL	¥44,200
<b>NEW!</b> ULM-11223-1.2	Perfluoro-2-methoxyacetic acid (PFMOAA) (unlabeled)	50 µg/mL in methanol	1.2 mL	¥44,200
ULM-10738-1.2	Perfluoro-3-methoxypropanoic acid (PFMPA) (unlabeled)	100 µg/mL in methanol	1.2 mL	¥44,200
<b>NEW!</b> ULM-10739-1.2	Perfluoro-4-methoxybutanoic acid (PFMBA) (unlabeled)	50 µg/mL in methanol	1.2 mL	¥32,800
ULM-10734-1.2	Perfluoro-3,6-dioxaheptanoic acid (PFDHA) (unlabeled)	100 µg/mL in methanol	1.2 mL	¥44,200
<b>NEW!</b> ULM-11128-1.2	Perfluoro(2-ethoxyethane) sulfonic acid (PFEESA) (unlabeled)	50 µg/mL in methanol	1.2 mL	¥44,200

Other Fluorinated Compounds

Catalog No.	Description	Concentration	Amount	Price(¥)
<b>NEW!</b> ULM-11073-1.2	Bis(1H,1H,2H,2H-perfluorodecyl) phosphate (8:2-DiPAP) (unlabeled) CP 94%	50 µg/mL in methanol	1.2 mL	¥32,800
<b>NEW!</b> CLM-11260-1.2	2,2-Difluoromalonic acid (MMF), disodium salt ( <sup>13</sup> C <sub>3</sub> , 99%)	100 µg/mL in methanol	1.2 mL	¥189,400
<b>NEW!</b> ULM-12303-1.2	2,2-Difluoromalonic acid (MMF), disodium salt (unlabeled)	100 µg/mL in methanol	1.2 mL	¥44,200

EPA Method 537 Mixtures

Catalog No.	Description	Amount	Price(¥)
ES-5609	Method 537 PFC Native Analyte Mix	1.2 mL in methanol	¥118,000
	<b>Unlabeled</b> (ng/mL)*		
	Perfluorohexanoic acid (PFHxA), sodium salt	2000	
	Perfluoroheptanoic acid (PFHpA)	2000	
	Perfluorooctanoic acid (PFOA)	2000	
	Perfluorononanoic acid (PFNA)	2000	
	Perfluorodecanoic acid (PFDA)	2000	
	Perfluoroundecanoic acid (PFUA), sodium salt	2000	
	Perfluorododecanoic acid (PFDoA)	2000	
	Perfluorotridecanoic acid (PFTriDA)	2000	
	Perfluorotetradecanoic acid (PFTeDA)	2000	
	Perfluorobutanesulfonate (PFBS), potassium salt	2000	
	Perfluorohexanesulfonate (PFHxS), potassium salt (mixed isomers)	2000	
	Perfluorooctanesulfonate (PFOS) (mixed isomers)	2000	
	N-Methylperfluorooctanesulfonamidoacetic acid (N-MeFOSAA) (mixed isomers)	8000	
	N-Ethylperfluorooctanesulfonamidoacetic acid (N-EtFOSAA) (mixed isomers)	8000	
	<i>*Gravimetric concentration is based on the salt form, where applicable.</i>		
ES-5610	Method 537 PFC Internal Standard Mix ( <sup>13</sup> C; D)	1.2 mL in methanol	¥158,000
	<b>Labeled</b> (ng/mL)*		
	Perfluorooctanoic acid (PFOA) ( <sup>13</sup> C <sub>8</sub> , 99%)	1000	
	Perfluorooctanesulfonate (PFOS), sodium salt ( <sup>13</sup> C <sub>8</sub> , 99%)	3000	
	N-Methylperfluorooctanesulfonamidoacetic acid (N-MeFOSAA) (N-methyl-D <sub>3</sub> , 98%)	4000	
	<i>*Gravimetric concentration is based on the salt form, where applicable.</i>		
ES-5611	Method 537 PFC Surrogate Standard Mix ( <sup>13</sup> C; D)	1.2 mL in methanol	¥180,000
	<b>Labeled</b> (ng/mL)*		
	Perfluorohexanoic acid (PFHxA), sodium salt ( <sup>13</sup> C <sub>6</sub> , 99%)	1000	
	Perfluorodecanoic acid (PFDA) ( <sup>13</sup> C <sub>10</sub> , 99%)	1000	
	N-Ethylperfluorooctanesulfonamidoacetic acid (N-EtFOSAA) (N-ethyl-D <sub>6</sub> , 98%)	4000	
	<i>*Gravimetric concentration is based on the salt form, where applicable.</i>		



EPA Method 537.1 Mixtures

Catalog No.	Description	Amount	Price(¥)
<b>NEW!</b> ES-5631	Method 537.1 Analyte Primary Dilution Standard (PDS)	1.2 mL in methanol (with 4 molar equivalent NaOH)	¥121,000
	<b>Unlabeled</b>	(ng/mL)*	
	Perfluorohexanoic acid (PFHxA), sodium salt	2000	
	Perfluoroheptanoic acid (PFHpA)	2000	
	Perfluorooctanoic acid (PFOA)	2000	
	Perfluorononanoic acid (PFNA)	2000	
	Perfluorodecanoic acid (PFDA), sodium salt	2000	
	Perfluoroundecanoic acid (PFUA), sodium salt	2000	
	Perfluorododecanoic acid (PFDoA), sodium salt	2000	
	Perfluorotridecanoic acid (PFTeDA)	2000	
	Perfluorotetradecanoic acid (PFTeDA)	2000	
	Perfluorobutanesulfonate (PFBS), potassium salt	2000	
	Potassium perfluorohexanesulfonate (PFHxS) (mixed isomers)	2000	
	Perfluorooctanesulfonate (PFOS) (mixed isomers)	2000	
	N-Methylperfluorooctanesulfonamidoacetic acid (N-MeFOSAA) (mixed isomers)	2000	
	N-Ethylperfluorooctanesulfonamidoacetic acid (N-EtFOSAA) (mixed isomers)	2000	
	Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (HFPO-DA) ("GenX")	2000	
	9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS) (F53BMAJ), potassium salt	2000	
	11-Chloroicosadecafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUs) (F53BMIN), potassium salt	2000	
	Dodecafluoro-3H-4,8-dioxanonanoic acid (NaDONA), sodium salt	2000	

\*Gravimetric concentration is based on the free acid, where applicable.

<b>NEW!</b> ES-5610-A	Method 537.1 Internal Standard Primary Dilution Standard (ISPDS)	1.2 mL in methanol (with 4 molar equivalent NaOH)	¥89,000
	<b>Labeled</b>	(ng/mL)*	
	Perfluorooctanoic acid (PFOA) ( <sup>13</sup> C <sub>8</sub> , 99%)	1000	
	Sodium perfluorooctanesulfonate (PFOS) ( <sup>13</sup> C <sub>8</sub> , 99%)	3000	
	N-Methylperfluorooctanesulfonamidoacetic acid (N-MeFOSAA) (N-methyl-D <sub>3</sub> , 98%)	4000	

\*Gravimetric concentration is based on the free acid, where applicable.

<b>NEW!</b> ES-5632	Method 537.1 Surrogate Primary Dilution Standard (SUR PDS)	1.2 mL in methanol (with 4 molar equivalent NaOH)	¥145,000
	<b>Labeled</b>	(ng/mL)*	
	Perfluorohexanoic acid (PFHxA), sodium salt ( <sup>13</sup> C <sub>6</sub> , 99%)	1000	
	Perfluorodecanoic acid (PFDA) ( <sup>13</sup> C <sub>9</sub> , 99%)	1000	
	N-Ethylperfluorooctanesulfonamidoacetic acid (N-EtFOSAA) (N-ethyl-D <sub>5</sub> , 98%)	4000	
	Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (HFPO-DA) ("GenX") ( <sup>13</sup> C <sub>3</sub> , 99%)	1000	

\*Gravimetric concentration is based on the free acid, where applicable.

EPA Method 8327 Mixtures

Catalog No.	Description	Amount	Price(¥)
<b>NEW!</b> ES-5643	Method 8327 Surrogate Spiking Mixture	1.2 mL in methanol (with 4 molar equivalent NaOH)	お問い合わせ
	<b>Labeled</b>	(ng/mL)*	
	Perfluorobutyric acid (PFBA), sodium salt (2,3,4- <sup>13</sup> C <sub>3</sub> , 99%)	1000	
	Perfluoropentanoic acid (PFPeA), sodium salt (pentanoyl- <sup>13</sup> C <sub>5</sub> , 99%)	1000	
	Perfluorohexanoic acid (PFHxA), sodium salt ( <sup>13</sup> C <sub>6</sub> , 99%)	1000	
	Perfluoroheptanoic acid (PFHpA), sodium salt (heptanoyl- <sup>13</sup> C <sub>7</sub> , 99%)	1000	
	Perfluoro- <i>n</i> -octanoic acid (PFOA) ( <sup>13</sup> C <sub>8</sub> , 99%)	1000	
	Perfluorononanoic acid (PFNA) ( <sup>13</sup> C <sub>9</sub> , 99%)	1000	
	Perfluorodecanoic acid (PFDA) ( <sup>13</sup> C <sub>9</sub> , 99%)	1000	
	Perfluoroundecanoic acid (PFUA), sodium salt ( <sup>13</sup> C <sub>9</sub> , 99%)	1000	
	Perfluorododecanoic acid (PFDoA), sodium salt (dodecanoyl- <sup>13</sup> C <sub>12</sub> , 99%)	1000	
	Perfluorotetradecanoic acid (PFTeDA) ( <sup>13</sup> C <sub>2</sub> , 99%)	1000	
	Perfluorobutanesulfonate (PFBS), potassium salt ( <sup>13</sup> C <sub>4</sub> , 99%)	1000	
	Perfluoro-1-hexanesulfonate (PFHxS), potassium salt ( <sup>13</sup> C <sub>6</sub> , 99%)	1000	
	Perfluoro-1-octanesulfonate (PFOS), sodium salt ( <sup>13</sup> C <sub>8</sub> , 99%)	1000	
	1H,1H,2H,2H-Perfluorohexane sulfonate (4:2 FTS), sodium salt ( <sup>13</sup> C <sub>2</sub> , 99%; D <sub>4</sub> , 98%)	1000	
	1H,1H,2H,2H-Perfluorooctane sulfonate (6:2 FTS), sodium salt ( <sup>13</sup> C <sub>2</sub> , 99%; D <sub>4</sub> , 98%)	1000	
	1H,1H,2H,2H-Perfluorodecane sulfonate (8:2 FTS), sodium salt ( <sup>13</sup> C <sub>2</sub> , 99%; D <sub>4</sub> , 98%)	1000	
	Perfluorooctanesulfonamide (PFOSA) ( <sup>13</sup> C <sub>8</sub> , 99%)	1000	
	N-Methylperfluorooctanesulfonamidoacetic acid (N-MeFOSAA) (N-methyl-D <sub>3</sub> , 98%)	1000	
	N-Ethylperfluorooctanesulfonamidoacetic acid (N-EtFOSAA) (N-ethyl-D <sub>5</sub> , 98%)	1000	

\*Gravimetric concentration is based on the free acid, where applicable.

<b>NEW!</b> ES-5642	Method 8327 Target Analyte Mixture	1.2 mL in methanol (with 4 molar equivalent NaOH)	¥92,400
	<b>Unlabeled</b>	(ng/mL)*	
	Perfluorobutyric acid (PFBA), sodium salt	2000	
	Perfluoropentanoic acid (PFPeA), sodium salt	2000	
	Perfluorohexanoic acid (PFHxA), sodium salt	2000	
	Perfluoroheptanoic acid (PFHpA)	2000	
	Perfluoro- <i>n</i> -octanoic acid (PFOA)	2000	
	Perfluorononanoic acid (PFNA)	2000	
	Perfluorodecanoic acid (PFDA), sodium salt	2000	
	Perfluoroundecanoic acid (PFUA), sodium salt	2000	
	Perfluorododecanoic acid (PFDoA), sodium salt	2000	
	Perfluorotridecanoic acid (PFTeDA)	2000	
	Perfluorotetradecanoic acid (PFTeDA)	2000	
	Perfluorobutanesulfonate (PFBS), potassium salt	2000	
	Perfluoropentanesulfonate (PFPeS), sodium salt	2000	
	Potassium perfluorohexanesulfonate (PFHxS) (mix of isomers)	2000	
	Perfluoroheptanesulfonate (PFHpS), sodium salt	2000	
	Perfluorooctanesulfonic acid (PFOS) (mix of isomers)	2000	
	Perfluorononanesulfonate (PFNS), sodium salt	2000	
	Perfluorodecanesulfonate (PFDS), potassium salt	2000	
	1H,1H,2H,2H-Perfluorohexane sulfonate (4:2 FTS), sodium salt	2000	
	1H,1H,2H,2H-Perfluorooctane sulfonate (6:2 FTS), sodium salt	2000	
	1H,1H,2H,2H-Perfluorodecane sulfonate (8:2 FTS), sodium salt	2000	
	Perfluorooctanesulfonamide (PFOSA)	2000	
	N-Methylperfluorooctanesulfonamidoacetic acid (N-MeFOSAA) (mix of isomers)	2000	
	N-Ethylperfluorooctanesulfonamidoacetic acid (N-EtFOSAA) (mix of isomers)	2000	

\*Gravimetric concentration is based on the free acid, where applicable.



PFAS Mixture

Catalog No.	Description	Amount	Price(¥)
<b>NEW!</b> ES-5640	PFAS SIL Superfund Mixture 1	1.2 mL in methanol (with 4 molar equivalent NaOH)	¥259,000

Labeled	(ng/mL)*
Perfluorobutyric acid (PFBA), sodium salt ( <sup>13</sup> C <sub>3</sub> , 99%)	1000
Perfluoropentanoic acid (PFPeA), sodium salt ( <sup>13</sup> C <sub>5</sub> , 99%)	1000
Perfluorohexanoic acid (PFHxA), sodium salt ( <sup>13</sup> C <sub>6</sub> , 99%)	1000
Perfluoroheptanoic acid (PFHpA), sodium salt ( <sup>13</sup> C <sub>7</sub> , 99%)	1000
Perfluoro- <i>n</i> -octanoic acid (PFOA) ( <sup>13</sup> C <sub>8</sub> , 99%)	1000
Perfluorononanoic acid (PFNA) ( <sup>13</sup> C <sub>9</sub> , 99%)	1000
Perfluorodecanoic acid (PFDA) ( <sup>13</sup> C <sub>10</sub> , 99%)	1000
Perfluoroundecanoic acid (PFUA), sodium salt ( <sup>13</sup> C <sub>11</sub> , 99%)	1000
Perfluorododecanoic acid (PFDoA), sodium salt ( <sup>13</sup> C <sub>12</sub> , 99%)	1000
Perfluorotetradecanoic acid (PFTeDA) ( <sup>13</sup> C <sub>14</sub> , 99%)	1000
Perfluorohexadecanoic acid (PFHxDA) ( <sup>13</sup> C <sub>16</sub> , 99%)	1000
Perfluorobutanesulfonate (PFBS), potassium salt ( <sup>13</sup> C <sub>4</sub> , 99%)	1000
Potassium perfluoro-1-hexanesulfonate (PFHxS) ( <sup>13</sup> C <sub>6</sub> , 99%)	1000
Sodium perfluoro-1-octanesulfonate (PFOS) ( <sup>13</sup> C <sub>8</sub> , 99%)	1000
1H,1H,2H,2H-Perfluorohexanesulfonate (4:2 FTS), sodium salt ( <sup>13</sup> C <sub>2</sub> , 99%; D <sub>4</sub> , 98%)	1000
1H,1H,2H,2H-Perfluorooctanesulfonate (6:2 FTS), sodium salt ( <sup>13</sup> C <sub>2</sub> , 99%; D <sub>4</sub> , 98%)	1000
1H,1H,2H,2H-Perfluorodecanesulfonate (8:2 FTS), sodium salt ( <sup>13</sup> C <sub>2</sub> , 99%; D <sub>4</sub> , 98%)	1000
1H,1H,2H,2H-Perfluorododecanesulfonate (10:2 FTS), sodium salt ( <sup>13</sup> C <sub>2</sub> , 99%; D <sub>4</sub> , 98%)	1000
Perfluorooctanesulfonamide (PFOSA) ( <sup>13</sup> C <sub>8</sub> , 99%)	1000
<i>N</i> -Methylperfluorooctanesulfonamide ( <i>N</i> -MeFOSA) (D <sub>3</sub> , 98%)	1000
<i>N</i> -Methylperfluorooctanesulfonamidoacetic acid ( <i>N</i> -MeFOSAA) (D <sub>3</sub> , 98%)	1000
<i>N</i> -Ethylperfluorooctanesulfonamidoacetic acid ( <i>N</i> -EtFOSAA) (D <sub>5</sub> , 98%)	1000
Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (HFPO-DA) ("GenX") ( <sup>13</sup> C <sub>3</sub> , 99%)	1000

\*Gravimetric concentration is based on the free acid, where applicable.

<b>NEW!</b> ES-5641	PFAS SIL Superfund Mixture 2	1.2 mL in methanol (with 4 molar equivalent NaOH)	¥171,000
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Labeled	(ng/mL)*
Perfluorobutyric acid (PFBA), sodium salt ( <sup>13</sup> C <sub>3</sub> , 99%)	1000
Perfluoropentanoic acid (PFPeA), sodium salt ( <sup>13</sup> C <sub>5</sub> , 99%)	1000
Perfluorohexanoic acid (PFHxA), sodium salt ( <sup>13</sup> C <sub>6</sub> , 99%)	1000
Perfluorodecanoic acid (PFDA) ( <sup>13</sup> C <sub>10</sub> , 99%)	1000
Perfluoroundecanoic acid (PFUA), sodium salt ( <sup>13</sup> C <sub>11</sub> , 99%)	1000
Perfluorododecanoic acid (PFDoA), sodium salt ( <sup>13</sup> C <sub>12</sub> , 99%)	1000
Perfluorotetradecanoic acid (PFTeDA) ( <sup>13</sup> C <sub>14</sub> , 99%)	1000
Perfluorobutanesulfonate (PFBS), potassium salt ( <sup>13</sup> C <sub>4</sub> , 99%)	1000
Potassium perfluoro-1-hexanesulfonate (PFHxS) ( <sup>13</sup> C <sub>6</sub> , 99%)	1000
1H,1H,2H,2H-Perfluorooctanesulfonate (6:2 FTS), sodium salt ( <sup>13</sup> C <sub>2</sub> , 99%; D <sub>4</sub> , 98%)	1000
1H,1H,2H,2H-Perfluorodecanesulfonate (8:2 FTS), sodium salt ( <sup>13</sup> C <sub>2</sub> , 99%; D <sub>4</sub> , 98%)	1000
Perfluorooctanesulfonamide (PFOSA) ( <sup>13</sup> C <sub>8</sub> , 99%)	1000

\*Gravimetric concentration is based on the free acid, where applicable.

PFAS Mixtures

Catalog No.	Description	Amount	Price(¥)
<b>NEW!</b> ES-5639-A	PFAS Superfund Mixture 1	1.2 mL in methanol (with 4 molar equivalent NaOH)	¥101,000

Unlabeled	(ng/mL)*
Perfluorobutyric acid (PFBA), sodium salt	2000
Perfluoropentanoic acid (PFPeA), sodium salt	2000
Perfluorohexanoic acid (PFHxA), sodium salt	2000
Perfluoroheptanoic acid (PFHpA)	2000
Perfluorooctanoic acid (PFOA)	2000
Perfluorononanoic acid (PFNA)	2000
Perfluorodecanoic acid (PFDA), sodium salt	2000
Perfluoroundecanoic acid (PFUA), sodium salt	2000
Perfluorododecanoic acid (PFDoA), sodium salt	2000
Perfluorotetradecanoic acid (PFTeDA)	2000
Perfluorohexadecanoic acid (PFHxDA)	2000
Perfluorooctadecanoic acid (PFODA)	2000
Perfluorobutanesulfonate (PFBS), potassium salt	2000
Potassium perfluorohexanesulfonate (PFHxS) (mixed isomers)	2000
Perfluorooctanesulfonate (PFOS) (mixed isomers)	2000
1H,1H,2H,2H-Perfluorohexanesulfonate (4:2 FTS), sodium salt	2000
1H,1H,2H,2H-Perfluorooctanesulfonate (6:2 FTS), sodium salt	2000
1H,1H,2H,2H-Perfluorodecanesulfonate (8:2 FTS), sodium salt	2000
1H,1H,2H,2H-Perfluorododecanesulfonate (10:2 FTS), sodium salt	2000
Perfluorooctanesulfonamide (PFOSA)	2000
<i>N</i> -Methylperfluorooctanesulfonamide ( <i>N</i> -MeFOSA)	2000
<i>N</i> -Methylperfluorooctanesulfonamidoacetic acid ( <i>N</i> -MeFOSAA) (mixed isomers)	2000
<i>N</i> -Ethylperfluorooctanesulfonamidoacetic acid ( <i>N</i> -EtFOSAA) (mixed isomers)	2000
Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (HFPO-DA) ("GenX")	2000

\*Gravimetric concentration is based on the free acid, where applicable.



PFAS Mixture

Catalog No.	Description	Amount	Price(¥)
NEW! ES-5636-A	PFAS EF-28 Native Mixture	1.2 mL in methanol	¥125,400

Unlabeled	(ng/mL)*
Perfluorobutyric acid (PFBA), sodium salt	1000
Perfluoropentanoic acid (PFPeA), sodium salt	1000
Perfluorohexanoic acid (PFHxA), sodium salt	1000
Perfluoroheptanoic acid (PFHpA)	1000
Perfluoro- <i>n</i> -octanoic acid (PFOA)	1000
Perfluorononanoic acid (PFNA)	1000
Perfluorodecanoic acid (PFDA), sodium salt	1000
Perfluoroundecanoic acid (PFUA), sodium salt	1000
Perfluorododecanoic acid (PFDoA), sodium salt	1000
Perfluorotridecanoic acid (PFTrDA)	1000
Perfluorotetradecanoic acid (PFTeDA)	1000
Perfluorohexadecanoic acid (PFHxDA)	1000
Perfluorooctadecanoic acid (PFODA)	1000
Perfluorobutanesulfonate (PFBS), potassium salt	1000
Perfluoropentanesulfonate (PFPeS), sodium salt	1000
Perfluorohexanesulfonate (PFHxS), potassium salt (mixed isomers)	1000
Perfluoroheptanesulfonate (PFHpS), sodium salt	1000
Perfluoro-1-octanesulfonate (PFOS), sodium salt	1000
Perfluorodecanesulfonate (PFDS), potassium salt	1000
1H,1H,2H,2H-Perfluorohexanesulfonate (4:2 FTS), sodium salt	1000
1H,1H,2H,2H-Perfluorooctanesulfonate (6:2 FTS), sodium salt	1000
1H,1H,2H,2H-Perfluorodecanesulfonate (8:2 FTS), sodium salt	1000
1H,1H,2H,2H-Perfluorododecanesulfonate (10:2 FTS), sodium salt	1000
Perfluorooctanesulfonamide (PFOSA)	1000
<i>N</i> -Methylperfluorooctanesulfonamide ( <i>N</i> -MeFOSA)	1000
<i>N</i> -Methylperfluorooctanesulfonamidoacetic acid ( <i>N</i> -MeFOSAA) (mixed isomers)	1000
<i>N</i> -Ethylperfluorooctanesulfonamidoacetic acid ( <i>N</i> -EtFOSAA) (mixed isomers)	1000
Bis(1H,1H,2H,2H-Perfluorodecyl)phosphate (8:2-DiPAP)	1000

\*Gravimetric concentration is based on the free acid, where applicable.

Dioxin and Furan Method Standards, Standard Mixtures and Reference Materials



Following the unprecedented release of dioxins and furans into the environment during the Seveso, Italy, industrial accident in 1976, regulatory agencies around the world initiated strict testing programs to monitor these toxic compounds. CIL and Cerilliant collaborated with the US EPA to prepare the first isotope dilution mass spectrometry (IDMS) standard mixtures for the analysis of PCDDs and PCDFs.









## Dioxin and Furan Plus PCB Standard Mixtures

Catalog No.	Description	Amount	Price(¥)
EC-5396-CS8	Co-PCB Calibration Solution CS8 (used with EDF-5443-A)	0.2 mL in nonane/ isooctane	¥197,000

Unlabeled	IUPAC	(ng/mL)
3,3',4,4'-TetraCB	77	2000
3,4,4',5-TetraCB	81	2000
2,3,3',4,4'-PentaCB	105	2000
2,3,4,4',5-PentaCB	114	2000
2,3',4,4',5-PentaCB	118	2000
2',3,4,4',5-PentaCB	123	2000
3,3',4,4',5-PentaCB	126	2000
2,3,3',4,4',5-HexaCB	156	2000
2,3,3',4,4',5'-HexaCB	157	2000
2,3',4,4',5,5'-HexaCB	167	2000
3,3',4,4',5,5'-HexaCB	169	2000
2,2',3,3',4,4',5-HeptaCB	170	2000
2,2',3,4,4',5,5'-HeptaCB	180	2000
2,3,3',4,4',5,5'-HeptaCB	189	2000
Labeled		
3,3',4,4'-TetraCB ( <sup>13</sup> C <sub>12</sub> , 99%)	77	10
3,4,4',5-TetraCB ( <sup>13</sup> C <sub>12</sub> , 99%)	81	10
2,3,3',4,4'-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	105	10
2,3,4,4',5-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	114	10
2,3',4,4',5-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	118	10
2',3,4,4',5-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	123	10
3,3',4,4',5-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	126	10
2,3,3',4,4',5-HexaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	156	10
2,3,3',4,4',5'-HexaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	157	10
2,3',4,4',5,5'-HexaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	167	10
3,3',4,4',5,5'-HexaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	169	10
2,2',3,3',4,4',5-HeptaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	170	10
2,2',3,4,4',5,5'-HeptaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	180	10
2,3,3',4,4',5,5'-HeptaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	189	10
Syringe		
2,3',4',5-TetraCB ( <sup>13</sup> C <sub>12</sub> , 99%)	70	10
2,3,3',5,5'-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	111	10
2,2',3,4,4',5'-HexaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	138	10
2,2',3,3',5,5',6-HeptaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	178	10
Sampling		
3,3',4,5'-TetraCB ( <sup>13</sup> C <sub>12</sub> , 99%)	79	10

## Dioxin and Furan Plus PCB Standard Mixtures

Catalog No.	Compound	Amount	Price(¥)
EC-5325	Modified JIS PCB Syringe Spike	1.2 mL in nonane	¥78,400
EC-5325-0.2X	Modified JIS PCB Syringe Spike	10 mL in nonane	¥48,800
EC-5325-20X	Modified JIS PCB Syringe Spike	1.2 mL in nonane	¥395,200

Labeled	IUPAC	EC-5325 (ng/mL)	EC-5325-0.2X (ng/mL)	EC-5325-20X (ng/mL)
2,3',4',5-TetraCB ( <sup>13</sup> C <sub>12</sub> , 99%)	70	50	10	1000
2,3,3',5,5'-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	111	50	10	1000
2,2',3,4,4',5'-HexaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	138	50	10	1000
2,2',3,3',5,5',6-HeptaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	178	50	10	1000

EC-5326	Modified JIS PCB Sampling Spike	1.2 mL in nonane	¥29,600
EC-5326-20X	Modified JIS PCB Sampling Spike	1.2 mL in nonane	¥105,000

Labeled	IUPAC	EC-5326 (ng/mL)	EC-5326-20X (ng/mL)
3,3',4,5'-TetraCB ( <sup>13</sup> C <sub>12</sub> , 99%)	79	50	1000



## Two-Column Dioxin and Furan Standard Mixtures

Catalog No.	Description	Amount	Price(¥)
EDF-5635	Two-Column Dioxin and Furan and PCB Native PAR Spike	1.2 mL in nonane	¥166,000
EDF-5645	Two-Column Dioxin and Furan Native Stock Solution	1.2 mL in nonane	¥144,600

All concentrations are ng/mL

Unlabeled	IUPAC	EDF-5635	EDF-5645
1,3,6,8-TetraCDD		10	500
1,3,7,9-TetraCDD		10	500
1,2,8,9-TetraCDD		10	500
2,3,7,8-TetraCDD		10	500
1,2,3,7,8-PentaCDD		10	500
1,2,3,4,7,8-HexaCDD		20	1000
1,2,3,6,7,8-HexaCDD		20	1000
1,2,3,7,8,9-HexaCDD		20	1000
1,2,3,4,6,7,8-HeptaCDD		20	1000
OctaCDD		50	2500
1,3,6,8-TetraCDF		10	500
1,2,7,8-TetraCDF		10	500
1,2,8,9-TetraCDF		10	500
2,3,7,8-TetraCDF		10	500
1,2,3,7,8-PentaCDF		10	500
2,3,4,7,8-PentaCDF		10	500
1,2,3,4,7,8-HexaCDF		20	1000
1,2,3,6,7,8-HexaCDF		20	1000
1,2,3,7,8,9-HexaCDF		20	1000
2,3,4,6,7,8-HexaCDF		20	1000
1,2,3,4,6,7,8-HeptaCDF		20	1000
1,2,3,4,7,8,9-HeptaCDF		20	1000
OctaCDF		50	2500
3,3',4,4'-TetraCB	77	20	-
3,4,4',5-TetraCB	81	20	-
2,3,3',4,4'-PentaCB	105	20	-
2,3,4,4',5-PentaCB	114	20	-
2,3',4,4',5-PentaCB	118	20	-
2',3,4,4',5-PentaCB	123	20	-
3,3',4,4',5-PentaCB	126	20	-
2,3,3',4,4',5-HexaCB	156	20	-
2,3,3',4,4',5'-HexaCB	157	20	-
2,3',4,4',5,5'-HexaCB	167	20	-
3,3',4,4',5,5'-HexaCB	169	20	-
2,2',3,3',4,4',5-HeptaCB	170	20	-
2,2',3,4,4',5,5'-HeptaCB	180	20	-
2,3,3',4,4',5,5'-HeptaCB	189	20	-

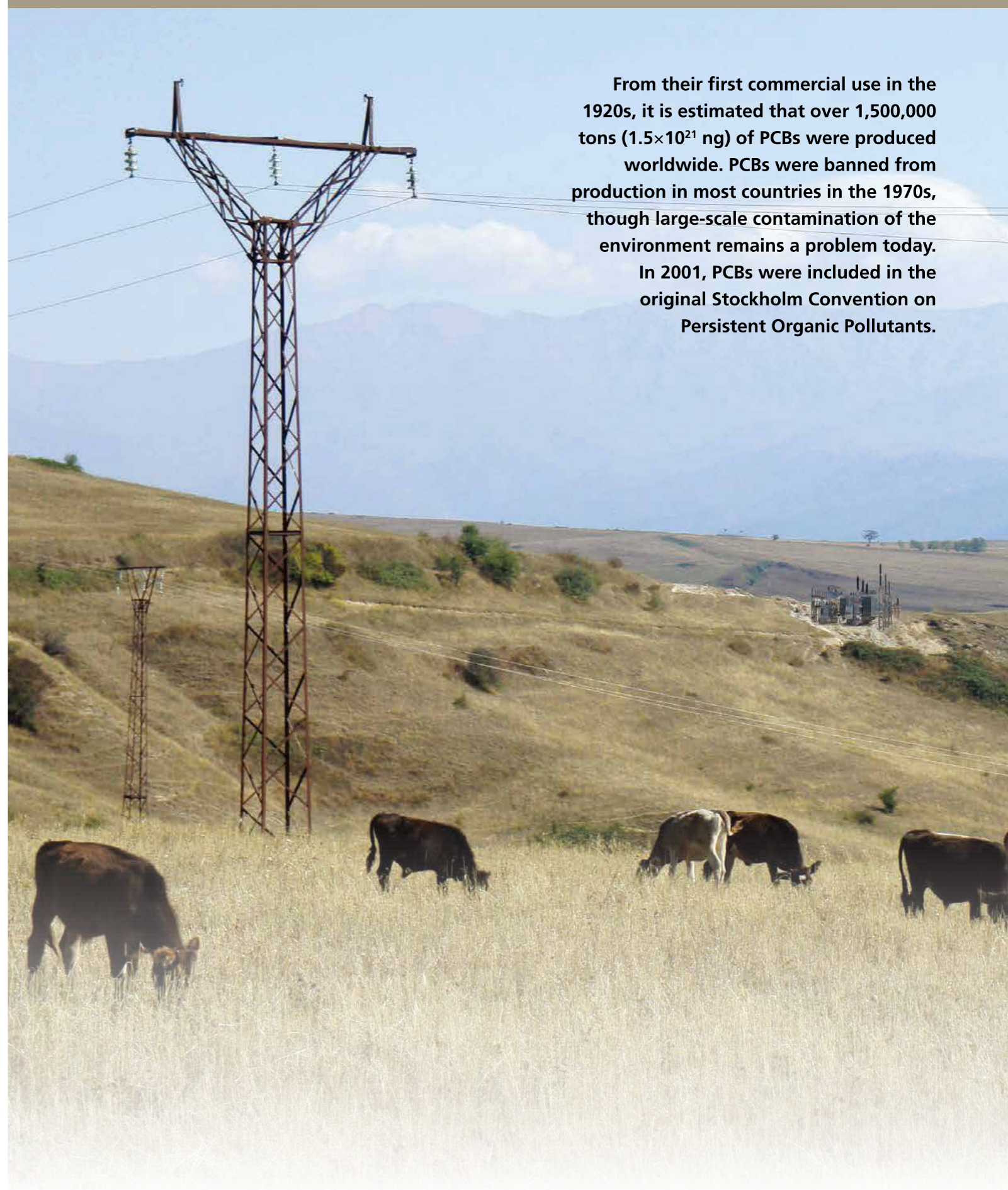
## Two-Column Dioxin and Furan Standard Mixtures

Catalog No.	Description	Amount	Price(¥)
EDF-5444	Two-Column Dioxin and Furan and PCB Cleanup Spike	0.6 mL in nonane	¥886,200
EDF-5444-C	Two-Column Dioxin and Furan and PCB Cleanup Spike with 1,3,6,8-TetraCDD	0.6 mL in nonane	¥924,400
EDF-5431	Two-Column Dioxin and Furan Syringe Spike	1.2 mL in nonane	¥85,400
EDF-5431-20X	Two-Column Dioxin and Furan Syringe Spike	1.2 mL in nonane	¥602,400
ED-5432	Two-Column Dioxin and Furan Sampling Spike	1.2 mL in nonane	¥36,600

All concentrations are ng/mL

Cleanup	IUPAC	EDF-5444	EDF-5444-C	EDF-5431	EDF-5431-20X	ED-5432
1,3,6,8-TetraCDD ( <sup>13</sup> C <sub>12</sub> , 99%)		-	1000	-	-	-
2,3,7,8-TetraCDD ( <sup>13</sup> C <sub>12</sub> , 99%)		1000	1000	-	-	-
1,2,3,7,8-PentaCDD ( <sup>13</sup> C <sub>12</sub> , 99%)		1000	1000	-	-	-
1,2,3,4,7,8-HexaCDD ( <sup>13</sup> C <sub>12</sub> , 99%)		1000	1000	-	-	-
1,2,3,6,7,8-HexaCDD ( <sup>13</sup> C <sub>12</sub> , 99%)		1000	1000	-	-	-
1,2,3,7,8,9-HexaCDD ( <sup>13</sup> C <sub>12</sub> , 99%)		1000	1000	-	-	-
1,2,3,4,6,7,8-HeptaCDD ( <sup>13</sup> C <sub>12</sub> , 99%)		1000	1000	-	-	-
OctaCDD ( <sup>13</sup> C <sub>12</sub> , 99%)		2000	2000	-	-	-
2,3,7,8-TetraCDF ( <sup>13</sup> C <sub>12</sub> , 99%)		1000	1000	-	-	-
1,2,3,7,8-PentaCDF ( <sup>13</sup> C <sub>12</sub> , 99%)		1000	1000	-	-	-
2,3,4,7,8-PentaCDF ( <sup>13</sup> C <sub>12</sub> , 99%)		1000	1000	-	-	-
1,2,3,4,7,8-HexaCDF ( <sup>13</sup> C <sub>12</sub> , 99%)		1000	1000	-	-	-
1,2,3,6,7,8-HexaCDF ( <sup>13</sup> C <sub>12</sub> , 99%)		1000	1000	-	-	-
1,2,3,7,8,9-HexaCDF ( <sup>13</sup> C <sub>12</sub> , 99%)		1000	1000	-	-	-
2,3,4,6,7,8-HexaCDF ( <sup>13</sup> C <sub>12</sub> , 99%)		1000	1000	-	-	-
1,2,3,4,6,7,8-HeptaCDF ( <sup>13</sup> C <sub>12</sub> , 99%)		1000	1000	-	-	-
1,2,3,4,7,8,9-HeptaCDF ( <sup>13</sup> C <sub>12</sub> , 99%)		1000	1000	-	-	-
OctaCDF ( <sup>13</sup> C <sub>12</sub> , 99%)		2000	2000	-	-	-
3,3',4,4'-TetraCB ( <sup>13</sup> C <sub>12</sub> , 99%)	77	1000	1000	-	-	-
3,4,4',5-TetraCB ( <sup>13</sup> C <sub>12</sub> , 99%)	81	1000	1000	-	-	-
3,3',4,4',5-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	126	1000	1000	-	-	-
3,3',4,4',5,5'-HexaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	169	1000	1000	-	-	-
2',3,4,4',5-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	123	1000	1000	-	-	-
2,3',4,4',5-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	118	1000	1000	-	-	-
2,3,3',4,4'-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	105	1000	1000	-	-	-
2,3,4,4',5-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	114	1000	1000	-	-	-
2,3',4,4',5,5'-HexaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	167	1000	1000	-	-	-
2,3,3',4,4',5-HexaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	156	1000	1000	-	-	-
2,3,3',4,4',5'-HexaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	157	1000	1000	-	-	-
2,3,3',4,4',5,5'-HeptaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	189	1000	1000	-	-	-
2,2',3,4,4',5,5'-HeptaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	180	1000	1000	-	-	-
<b>Syringe</b>						
1,2,7,8-TetraCDF ( <sup>13</sup> C <sub>12</sub> , 99%)		-	-	50	1000	-
1,2,3,4,6-PentaCDF ( <sup>13</sup> C <sub>12</sub> , 99%)		-	-	50	1000	-
1,2,3,4,6,7-HexaCDD ( <sup>13</sup> C <sub>12</sub> , 99%)		-	-	50	1000	-
1,2,3,4,6,8,9-HeptaCDF ( <sup>13</sup> C <sub>12</sub> , 99%)		-	-	50	1000	-
<b>Sampling</b>						
1,2,3,4-TetraCDD ( <sup>13</sup> C <sub>12</sub> , 99%)		-	-	-	-	50

From their first commercial use in the 1920s, it is estimated that over 1,500,000 tons ( $1.5 \times 10^{21}$  ng) of PCBs were produced worldwide. PCBs were banned from production in most countries in the 1970s, though large-scale contamination of the environment remains a problem today. In 2001, PCBs were included in the original Stockholm Convention on Persistent Organic Pollutants.





## “Non-Dioxin-Like” (Marker/Indicator) PCB Mixtures

Catalog No.	Compound	Amount	Price(¥)
EC-5448-HR	Rapid PCB Screening Calibration Solutions [CS0.02, 0.05, 0.1, 0.5]	Set of 4 × 0.2 mL in nonane/isooctane	¥632,000
EC-5448-CS0.1	HRMS Rapid PCB Screening Calibration Solution [CS0.1]	0.2 mL in nonane/isooctane	¥162,000
EC-5448-CS0.5	HRMS Rapid PCB Screening Calibration Solution [CS0.5]	0.2 mL in nonane/isooctane	¥162,000
EC-5448	Rapid PCB Screening Calibration Solutions [CS1-CS4]	Set of 4 × 0.2 mL in nonane/isooctane	¥632,000
EC-5448-CS4	Rapid PCB Screening Calibration Solution [CS4]	0.2 mL in nonane/isooctane	¥162,000

All concentrations are in ng/mL (ppb)

Unlabeled	IUPAC	CS0.02	CS0.05	CS0.1	CS0.5	CS1	CS2	CS3	CS4
2,4,4'-TriCB	28	0.02	0.05	0.1	0.5	1	5	10	50
2,2',5'-TriCB	18	0.02	0.05	0.1	0.5	1	5	10	50
2,2',3,5'-TetraCB	44	0.02	0.05	0.1	0.5	1	5	10	50
2,3',4',5'-TetraCB	70	0.02	0.05	0.1	0.5	1	5	10	50
2,2',5,5'-TetraCB	52	0.02	0.05	0.1	0.5	1	5	10	50
2,2',4,5,5'-PentaCB	101	0.02	0.05	0.1	0.5	1	5	10	50
2,3,3',4',6-PentaCB	110	0.02	0.05	0.1	0.5	1	5	10	50
2,3',4,4',5-PentaCB	118	0.02	0.05	0.1	0.5	1	5	10	50
2,2',3,4',5',6-HexaCB	149	0.02	0.05	0.1	0.5	1	5	10	50
2,2',3,4,4',5'-HexaCB	138	0.02	0.05	0.1	0.5	1	5	10	50
2,2',4,4',5,5'-HexaCB	153	0.02	0.05	0.1	0.5	1	5	10	50
2,2',3,4,4',5,5'-HeptaCB	180	0.02	0.05	0.1	0.5	1	5	10	50
2,2',3,4',5,5',6-HeptaCB	187	0.02	0.05	0.1	0.5	1	5	10	50
<b>Extraction</b>									
2,4,4'-TriCB ( <sup>13</sup> C <sub>12</sub> , 99%)	28	10	10	10	10	10	10	10	10
2,2',5,5'-TetraCB ( <sup>13</sup> C <sub>12</sub> , 99%)	52	10	10	10	10	10	10	10	10
2,2',4,5,5'-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	101	10	10	10	10	10	10	10	10
2,2',3,4,4',5'-HexaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	138	10	10	10	10	10	10	10	10
2,2',4,4',5,5'-HexaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	153	10	10	10	10	10	10	10	10
2,2',3,4,4',5,5'-HeptaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	180	10	10	10	10	10	10	10	10
<b>Syringe</b>									
2,3',4',5-TetraCB ( <sup>13</sup> C <sub>12</sub> , 99%)	70	10	10	10	10	10	10	10	10
2,3',4,4',5-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	118	10	10	10	10	10	10	10	10
2,2',3,4,5,5'-HexaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	141	10	10	10	10	10	10	10	10

## Rapid PCB Screening “Non-Dioxin-Like” (Marker/Indicator) PCB Mixtures

Catalog No.	Compound	Amount	Price(¥)
EC-5379	EN-1948-4 MARKER PCB EXTRACTION STANDARD	1.2 mL in nonane	¥245,600
EC-5379-5X1.2	EN-1948-4 MARKER PCB EXTRACTION STANDARD	5 × 1.2 mL in nonane	¥1,074,200

Labeled	IUPAC	EC-5379 (ng/mL)	EC-5379-1/10X-10 (ng/mL)
2,4,4'-TriCB ( <sup>13</sup> C <sub>12</sub> , 99%)	28	1000	100
2,2',5,5'-TetraCB ( <sup>13</sup> C <sub>12</sub> , 99%)	52	1000	100
2,2',4,5,5'-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	101	1000	100
2,2',3,4,4',5'-HexaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	138	1000	100
2,2',4,4',5,5'-HexaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	153	1000	100
2,2',3,4,4',5,5'-HeptaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	180	1000	100

EC-5450	Rapid PCB Screening Syringe Spike	1.2 mL in nonane	¥283,800
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Labeled	IUPAC	(ng/mL)
2,3',4',5-TetraCB ( <sup>13</sup> C <sub>12</sub> , 99%)	70	2000
2,3',4,4',5-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	118	2000
2,2',3,4,5,5'-HexaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	141	2000

EC-5453	Rapid PCB Screening Native PAR Solution	0.5 mL in isooctane	¥73,200
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Unlabeled	IUPAC	(ng/mL)
2,4,4'-TriCB	28	1000
2,2',5-TriCB	18	1000
2,2',3,5'-TetraCB	44	1000
2,3',4',5-TetraCB	70	1000
2,2',5,5'-TetraCB	52	1000
2,2',4,5,5'-PentaCB	101	1000
2,3,3',4',6-PentaCB	110	1000
2,3',4,4',5-PentaCB	118	1000
2,2',3,4',5',6-HexaCB	149	1000
2,2',3,4,4',5'-HexaCB	138	1000
2,2',4,4',5,5'-HexaCB	153	1000
2,2',3,4,4',5,5'-HeptaCB	180	1000
2,2',3,4',5,5',6-HeptaCB	187	1000



# PCB-Wide PCBs “Non-Dioxin-Like” PCB Mixtures

Catalog No.	Compound	Amount	Price(¥)
EC-5414	Mono-Deca Plus Predominant PCB Calibration Solutions [CS1-CS5]	Set of 5 × 0.2 mL in nonane/isooctane	¥1,100,000

All concentrations are in ng/mL (ppb)

Unlabeled	IUPAC	CS1	CS2	CS3	CS4	CS5
4-MonoCB	3	4	20	100	500	2000
2,4'-DiCB	8	4	20	100	500	2000
2,4,4'-TriCB	28	2	10	50	250	1000
2,2',5,5'-TetraCB	52	2	10	50	250	1000
2,2',4,5,5'-PentaCB	101	2	10	50	250	1000
2,3',4,4',5-PentaCB	118	2	10	50	250	1000
2,3,4,4',5-PentaCB	114	2	10	50	250	1000
2,2',3,4,4',5'-HexaCB	138	2	10	50	250	1000
2,2',4,4',5,5'-HexaCB	153	2	10	50	250	1000
2,2',3,4,4',5,5'-HeptaCB	180	2	10	50	250	1000
2,2',3,3',4,4',5,5'-OctaCB	194	4	20	100	500	2000
2,2',3,3',4,4',5,5',6-NonaCB	206	4	20	100	500	2000
DecaCB	209	4	20	100	500	2000
<b>Labeled</b>						
4-MonoCB ( <sup>13</sup> C <sub>12</sub> , 99%)	3	100	100	100	100	100
2,4'-DiCB ( <sup>13</sup> C <sub>12</sub> , 99%)	8	100	100	100	100	100
2,4,4'-TriCB ( <sup>13</sup> C <sub>12</sub> , 99%)	28	100	100	100	100	100
2,2',5,5'-TetraCB ( <sup>13</sup> C <sub>12</sub> , 99%)	52	100	100	100	100	100
2,2',4,5,5'-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	101	100	100	100	100	100
2,3',4,4',5-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	118	100	100	100	100	100
2,3,4,4',5-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	114	100	100	100	100	100
2,2',3,4,4',5'-HexaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	138	100	100	100	100	100
2,2',4,4',5,5'-HexaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	153	100	100	100	100	100
2,2',3,4,4',5,5'-HeptaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	180	100	100	100	100	100
2,2',3,3',4,4',5,5'-OctaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	194	100	100	100	100	100
2,2',3,3',4,4',5,5',6-NonaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	206	100	100	100	100	100
DecaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	209	100	100	100	100	100
<b>Syringe</b>						
2,4',6-TriCB ( <sup>13</sup> C <sub>12</sub> , 99%)	32	100	100	100	100	100
2,3',4',5-TetraCB ( <sup>13</sup> C <sub>12</sub> , 99%)	70	100	100	100	100	100
3,3',4,5,5'-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	127	100	100	100	100	100
2,2',3,3',4,4'-HexaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	128	100	100	100	100	100
2,2',3,3',4,4',5-HeptaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	170	100	100	100	100	100

Catalog No.	Compound	Amount	Price(¥)
EC-5411	Predominant Mono-Deca PCB Spike	1.2 mL in nonane	¥1,260,000
EC-5411-A	Modified Predominant Mono-Deca PCB Spike	1.2 mL in nonane	¥1,260,000

Labeled	IUPAC	EC-5411 (ng/mL)	EC-5411-A (ng/mL)
4-MonoCB ( <sup>13</sup> C <sub>12</sub> , 99%)	3	2000	2000
2,4'-DiCB ( <sup>13</sup> C <sub>12</sub> , 99%)	8	2000	2000
2,4,4'-TriCB ( <sup>13</sup> C <sub>12</sub> , 99%)	28	2000	1000
2,2',5,5'-TetraCB ( <sup>13</sup> C <sub>12</sub> , 99%)	52	2000	1000
2,2',4,5,5'-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	101	2000	1000
2,3',4,4',5-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	118	2000	1000
2,3,4,4',5-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	114	2000	1000
2,2',3,4,4',5'-HexaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	138	2000	1000
2,2',4,4',5,5'-HexaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	153	2000	1000
2,2',3,4,4',5,5'-HeptaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	180	2000	1000
2,2',3,3',4,4',5,5'-OctaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	194	2000	2000
2,2',3,3',4,4',5,5',6-NonaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	206	2000	2000
DecaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	209	2000	2000

EC-5415	Mono-Deca Plus Predominant PCB Syringe Spike	1.2 mL in nonane	¥633,000
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Labeled	IUPAC	(ng/mL)
2,4',6-TriCB ( <sup>13</sup> C <sub>12</sub> , 99%)	32	2000
2,3',4',5-TetraCB ( <sup>13</sup> C <sub>12</sub> , 99%)	70	2000
3,3',4,5,5'-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	127	2000
2,2',3,3',4,4'-HexaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	128	2000
2,2',3,3',4,4',5-HeptaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	170	2000

EC-5412	Native Mono-Deca Plus Predominant Spike PCBs	1.2 mL in isooctane	¥88,800
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Unlabeled	IUPAC	(ng/mL)
4-MonoCB	3	2000
2,4'-DiCB	8	2000
2,4,4'-TriCB	28	2000
2,2',5,5'-TetraCB	52	2000
2,2',4,5,5'-PentaCB	101	2000
2,3',4,4',5-PentaCB	118	2000
2,3,4,4',5-PentaCB	114	2000
2,2',3,4,4',5'-HexaCB	138	2000
2,2',4,4',5,5'-HexaCB	153	2000
2,2',3,4,4',5,5'-HeptaCB	180	2000
2,2',3,3',4,4',5,5'-OctaCB	194	2000
2,2',3,3',4,4',5,5',6-NonaCB	206	2000
DecaCB	209	2000







Catalog No.	Compound	Amount	Price(¥)
EC-4977	Method 1668A/B/C Labeled Toxics/LOC/ Window Defining Solution	1.2 mL in nonane	¥924,400
EC-4977-5	Method 1668A/B/C Labeled Toxics/LOC/ Window Defining Solution	5 mL in nonane	¥1,845,400

Labeled	IUPAC	(ng/mL)
2-MonoCB ( <sup>13</sup> C <sub>12</sub> , 99%)	1	1000
4-MonoCB ( <sup>13</sup> C <sub>12</sub> , 99%)	3	1000
2,2'-DiCB ( <sup>13</sup> C <sub>12</sub> , 99%)	4	1000
4,4'-DiCB ( <sup>13</sup> C <sub>12</sub> , 99%)	15	1000
2,2',6-TriCB ( <sup>13</sup> C <sub>12</sub> , 99%)	19	1000
3,4,4'-TriCB ( <sup>13</sup> C <sub>12</sub> , 99%)	37	1000
2,2',6,6'-TetraCB ( <sup>13</sup> C <sub>12</sub> , 99%)	54	1000
3,3',4,4'-TetraCB ( <sup>13</sup> C <sub>12</sub> , 99%)	77	1000
3,4,4',5-TetraCB ( <sup>13</sup> C <sub>12</sub> , 99%)	81	1000
2,2',4,6,6'-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	104	1000
2,3,3',4,4'-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	105	1000
2,3,4,4',5-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	114	1000
2,3',4,4',5-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	118	1000
2',3,4,4',5-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	123	1000
3,3',4,4',5-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	126	1000
2,3,3',4,4',5-HexaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	155	1000
2,2',4,4',6,6'-HexaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	156	1000
2,3,3',4,4',5'-HexaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	157	1000
2,3',4,4',5,5'-HexaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	167	1000
3,3',4,4',5,5'-HexaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	169	1000
2,2',3,4',5,6,6'-HeptaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	188	1000
2,3,3',4,4',5,5'-HeptaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	189	1000
2,2',3,3',5,5',6,6'-OctaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	202	1000
2,3,3',4,4',5,5',6-OctaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	205	1000
2,2',3,3',4,4',5,5',6-NonaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	206	1000
2,2',3,3',4,5,5',6,6'-NonaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	208	1000
DecaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	209	1000

EC-4978	Method 1668A/B/C Labeled Cleanup Standard Solution	1.2 mL in nonane	¥216,000
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Labeled	IUPAC	(ng/mL)
2,4,4'-TriCB ( <sup>13</sup> C <sub>12</sub> , 99%)	28	1000
2,3,3',5,5'-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	111	1000
2,2',3,3',5,5',6-HeptaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	178	1000

EC-4979	Method 1668A/B/C Labeled Injection Internal Standard Solution	1.2 mL in nonane	¥621,600
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Labeled	IUPAC	(ng/mL)
2,5-DiCB ( <sup>13</sup> C <sub>12</sub> , 99%)	9	5000
2,2',5,5'-TetraCB ( <sup>13</sup> C <sub>12</sub> , 99%)	52	5000
2,2',4,5,5'-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	101	5000
2,2',3,4,4',5'-HexaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	138	5000
2,2',3,3',4,4',5,5'-OctaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	194	5000

Catalog No.	Compound	Amount	Price(¥)
EC-5433	Comprehensive Native PCB Mixture	1.2 mL in isoctane	¥395,200

Unlabeled	IUPAC	(ng/mL)	Unlabeled	IUPAC	(ng/mL)
2-MonoCB	1	2000	2,2',4,6,6'-PentaCB	104	1000
4-MonoCB	3	2000	2,3,3',4,4'-PentaCB	105	1000
2,2'-DiCB	4	2000	2,3,3',4',6-PentaCB	110	1000
2,4'-DiCB	8	2000	2,3,3',5,5'-PentaCB	111	1000
2,5-DiCB	9	2000	2,3,4,4',5-PentaCB	114	1000
2,6-DiCB	10	2000	2,3',4,4',5-PentaCB	118	1000
3,3'-DiCB	11	2000	2',3,4,4',5-PentaCB	123	1000
3,4-DiCB	12	2000	3,3',4,4',5-PentaCB	126	1000
4,4'-DiCB	15	2000	2,2',3,4,4',5'-HexaCB	138	1000
2,2',5-TriCB	18	1000	2,2',3,4',5',6-HexaCB	149	1000
2,2',6-TriCB	19	1000	2,2',4,4',5,5'-HexaCB	153	1000
2,4,4'-TriCB	28	1000	2,2',4,4',6,6'-HexaCB	155	1000
2,4',5-TriCB	31	1000	2,3,3',4,4',5-HexaCB	156	1000
2',3,4-TriCB	33	1000	2,3,3',4,4',5'-HexaCB	157	1000
3,3',4-TriCB	35	1000	2,3,3',4',5,5'-HexaCB	162	1000
3,4,4'-TriCB	37	1000	2,3',4,4',5,5'-HexaCB	167	1000
3,4,5-TriCB	38	1000	3,3',4,4',5,5'-HexaCB	169	1000
2,2',3,5'-TetraCB	44	1000	2,2',3,3',4,4',5-HeptaCB	170	1000
2,2',4,5'-TetraCB	49	1000	2,2',3,3',4,5,6-HeptaCB	174	1000
2,2',5,5'-TetraCB	52	1000	2,2',3,3',5,5',6-HeptaCB	178	1000
2,2',6,6'-TetraCB	54	1000	2,2',3,4,4',5,5'-HeptaCB	180	1000
2,3,3',5-TetraCB	57	1000	2,2',3,4',5,5',6-HeptaCB	187	1000
2,3',4,4'-TetraCB	66	1000	2,2',3,4',5,6,6'-HeptaCB	188	1000
2,3',4',5-TetraCB	70	1000	2,3,3',4,4',5,5'-HeptaCB	189	1000
2,4,4',5-TetraCB	74	1000	2,2',3,3',4,4',5,5'-OctaCB	194	1000
3,3',4,4'-TetraCB	77	1000	2,2',3,3',4,4',5,6-OctaCB	195	1000
3,3',4,5-TetraCB	78	1000	2,2',3,3',4,5,6,6'-OctaCB	200	1000
3,3',4,5'-TetraCB	79	1000	2,2',3,3',5,5',6,6'-OctaCB	202	1000
3,4,4',5-TetraCB	81	1000	2,2',3,4,4',5,5',6-OctaCB	203	1000
2,2',3,4,5'-PentaCB	87	1000	2,3,3',4,4',5,5',6-OctaCB	205	1000
2,2',3,5',6-PentaCB	95	1000	2,2',3,3',4,4',5,5',6-NonaCB	206	1000
2,2',4,4',5-PentaCB	99	1000	2,2',3,3',4,5,5',6,6'-NonaCB	208	1000
2,2',4,5,5'-PentaCB	101	1000	DecaCB	209	1000





# WHO "Dioxin-Like" PCB Mixtures

Catalog No.	Compound	Amount	Price(¥)
EC-5396	Co-PCB Calibration Solutions [CS1-CS6] (シリーズK)	Set of 6 × 0.2 mL in nonane	¥886,200
EC-5396-CS4	Co-PCB Calibration Solution [CS4]	0.2 mL in nonane	¥141,200

All concentrations are in ng/mL (ppb)

Unlabeled	IUPAC	CS1	CS2	CS3	CS4	CS5	CS6
3,4,4',5-TetraCB	81	0.2	0.5	2	10	50	200
3,3',4,4'-TetraCB	77	0.2	0.5	2	10	50	200
3,3',4,4',5-PentaCB	126	0.2	0.5	2	10	50	200
3,3',4,4',5,5'-HexaCB	169	0.2	0.5	2	10	50	200
2',3,4,4',5-PentaCB	123	0.2	0.5	2	10	50	200
2,3',4,4',5-PentaCB	118	0.2	0.5	2	10	50	200
2,3,3',4,4'-PentaCB	105	0.2	0.5	2	10	50	200
2,3,4,4',5-PentaCB	114	0.2	0.5	2	10	50	200
2,3',4,4',5,5'-HexaCB	167	0.2	0.5	2	10	50	200
2,3,3',4,4',5-HexaCB	156	0.2	0.5	2	10	50	200
2,3,3',4,4',5'-HexaCB	157	0.2	0.5	2	10	50	200
2,3,3',4,4',5,5'-HeptaCB	189	0.2	0.5	2	10	50	200
2,2',3,3',4,4',5-HeptaCB	170	0.2	0.5	2	10	50	200
2,2',3,4,4',5,5'-HeptaCB	180	0.2	0.5	2	10	50	200
<b>Labeled</b>							
3,4,4',5-TetraCB ( <sup>13</sup> C <sub>12</sub> , 99%)	81	10	10	10	10	10	10
3,3',4,4'-TetraCB ( <sup>13</sup> C <sub>12</sub> , 99%)	77	10	10	10	10	10	10
3,3',4,4',5-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	126	10	10	10	10	10	10
3,3',4,4',5,5'-HexaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	169	10	10	10	10	10	10
2',3,4,4',5-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	123	10	10	10	10	10	10
2,3',4,4',5-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	118	10	10	10	10	10	10
2,3,3',4,4'-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	105	10	10	10	10	10	10
2,3,4,4',5-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	114	10	10	10	10	10	10
2,3',4,4',5,5'-HexaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	167	10	10	10	10	10	10
2,3,3',4,4',5-HexaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	156	10	10	10	10	10	10
2,3,3',4,4',5'-HexaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	157	10	10	10	10	10	10
2,3,3',4,4',5,5'-HeptaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	189	10	10	10	10	10	10
2,2',3,3',4,4',5-HeptaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	170	10	10	10	10	10	10
2,2',3,4,4',5,5'-HeptaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	180	10	10	10	10	10	10
<b>Syringe</b>							
2,3',4',5-TetraCB ( <sup>13</sup> C <sub>12</sub> , 99%)	70	10	10	10	10	10	10
2,3,3',5,5'-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	111	10	10	10	10	10	10
2,2',3,4,4',5-HexaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	138	10	10	10	10	10	10
2,2',3,3',5,5',6-HeptaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	178	10	10	10	10	10	10
<b>Sampling</b>							
3,3',4,5'-TetraCB ( <sup>13</sup> C <sub>12</sub> , 99%)	79	10	10	10	10	10	10

Catalog No.	Description	Amount	Price(¥)
EC-5396-CS8	Co-PCB Calibration Solution CS8 (used with EDF-5443-A)	0.2 mL in nonane/ isooctane	¥197,000

Unlabeled	IUPAC	(ng/mL)
3,3',4,4'-TetraCB	77	2000
3,4,4',5-TetraCB	81	2000
2,3,3',4,4'-PentaCB	105	2000
2,3,4,4',5-PentaCB	114	2000
2,3',4,4',5-PentaCB	118	2000
2',3,4,4',5-PentaCB	123	2000
3,3',4,4',5-PentaCB	126	2000
2,3,3',4,4',5-HexaCB	156	2000
2,3,3',4,4',5'-HexaCB	157	2000
2,3',4,4',5,5'-HexaCB	167	2000
3,3',4,4',5,5'-HexaCB	169	2000
2,2',3,3',4,4',5-HeptaCB	170	2000
2,2',3,4,4',5,5'-HeptaCB	180	2000
2,3,3',4,4',5,5'-HeptaCB	189	2000
<b>Labeled</b>		
3,3',4,4'-TetraCB ( <sup>13</sup> C <sub>12</sub> , 99%)	77	10
3,4,4',5-TetraCB ( <sup>13</sup> C <sub>12</sub> , 99%)	81	10
2,3,3',4,4'-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	105	10
2,3,4,4',5-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	114	10
2,3',4,4',5-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	118	10
2',3,4,4',5-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	123	10
3,3',4,4',5-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	126	10
2,3,3',4,4',5-HexaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	156	10
2,3,3',4,4',5'-HexaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	157	10
2,3',4,4',5,5'-HexaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	167	10
3,3',4,4',5,5'-HexaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	169	10
2,2',3,3',4,4',5-HeptaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	170	10
2,2',3,4,4',5,5'-HeptaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	180	10
2,3,3',4,4',5,5'-HeptaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	189	10
<b>Syringe</b>		
2,3',4',5-TetraCB ( <sup>13</sup> C <sub>12</sub> , 99%)	70	10
2,3,3',5,5'-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	111	10
2,2',3,4,4',5-HexaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	138	10
2,2',3,3',5,5',6-HeptaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	178	10
<b>Sampling</b>		
3,3',4,5'-TetraCB ( <sup>13</sup> C <sub>12</sub> , 99%)	79	10



# WHO "Dioxin-Like" PCB Mixtures

Catalog No.	Compound	Amount	Price(¥)
EC-5421-H-E	DL-PCB RH12 Extended Calibration Solutions [CS0.4H-CS6H]	Set of 7 × 0.2 mL in nonane	¥999,400
EC-5421-H	DL-PCB RH12 Calibration Solutions [CS1H-CS5H]	Set of 5 × 0.2 mL in nonane	¥827,000
EC-5421-CS0.4H	DL-PCB RH12 Extended Calibration Solution [CS0.4H]	0.2 mL in nonane	¥170,600
EC-5421-CS1H	DL-PCB RH12 Calibration Solution [CS1H]	0.2 mL in nonane	¥170,600
EC-5421-CS2H	DL-PCB RH12 Calibration Solution [CS2H]	0.2 mL in nonane	¥170,600
EC-5421-CS3H	DL-PCB RH12 Calibration Solution [CS3H]	0.2 mL in nonane	¥170,600
EC-5421-CS4H	DL-PCB RH12 Calibration Solution [CS4H]	0.2 mL in nonane	¥170,600
EC-5421-CS5H	DL-PCB RH12 Calibration Solution [CS5H]	0.2 mL in nonane	¥170,600
EC-5421-CS6H	DL-PCB RH12 Extended Calibration Solution [CS6H]	0.2 mL in nonane	¥170,600

All concentrations are in ng/mL (ppb)

Unlabeled	IUPAC	CS0.4H	CS1H	CS2H	CS3H	CS4H	CS5H	CS6H
3,4,4',5-TetraCB	81	0.1	0.25	1	5	20	100	500
3,3',4,4'-TetraCB	77	0.1	0.25	1	5	20	100	500
2',3,4,4',5-PentaCB	123	0.1	0.25	1	5	20	100	500
2,3',4,4',5-PentaCB	118	0.2	0.5	2	10	40	200	1000
2,3,4,4',5-PentaCB	114	0.1	0.25	1	5	20	100	500
2,3,3',4,4'-PentaCB	105	0.2	0.5	2	10	40	200	1000
3,3',4,4',5-PentaCB	126	0.1	0.25	1	5	20	100	500
2,3',4,4',5,5'-HexaCB	167	0.1	0.25	1	5	20	100	500
2,3,3',4,4',5-HexaCB	156	0.2	0.5	2	10	40	200	1000
2,3,3',4,4',5'-HexaCB	157	0.1	0.25	1	5	20	100	500
2,2',3,4,4',5,5'-HeptaCB	180	0.1	0.25	1	5	20	100	500
3,3',4,4',5,5'-HexaCB	169	0.1	0.25	1	5	20	100	500
2,2',3,3',4,4',5-HeptaCB	170	0.1	0.25	1	5	20	100	500
2,3,3',4,4',5,5'-HeptaCB	189	0.1	0.25	1	5	20	100	500
<b>Extraction</b>								
3,4,4',5-TetraCB ( <sup>13</sup> C <sub>12</sub> , 99%)	81	10	10	10	10	10	10	10
3,3',4,4'-TetraCB ( <sup>13</sup> C <sub>12</sub> , 99%)	77	10	10	10	10	10	10	10
2',3,4,4',5-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	123	10	10	10	10	10	10	10
2,3',4,4',5-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	118	20	20	20	20	20	20	20
2,3,4,4',5-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	114	10	10	10	10	10	10	10
2,3,3',4,4'-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	105	20	20	20	20	20	20	20
3,3',4,4',5-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	126	10	10	10	10	10	10	10
2,3',4,4',5,5'-HexaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	167	10	10	10	10	10	10	10
2,3,3',4,4',5-HexaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	156	20	20	20	20	20	20	20
2,3,3',4,4',5'-HexaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	157	10	10	10	10	10	10	10
2,2',3,4,4',5,5'-HeptaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	180	10	10	10	10	10	10	10
3,3',4,4',5,5'-HexaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	169	10	10	10	10	10	10	10
2,3,3',4,4',5,5'-HeptaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	189	10	10	10	10	10	10	10
<b>Syringe</b>								
2,3',4',5-TetraCB ( <sup>13</sup> C <sub>12</sub> , 99%)	70	10	10	10	10	10	10	10
3,3',4,5,5'-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	127	10	10	10	10	10	10	10
2,2',3,3',4,4'-HexaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	128	10	10	10	10	10	10	10
2,2',3,3',4,4',5-HeptaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	170	10	10	10	10	10	10	10
<b>Sampling</b>								
2,3,4,4'-TetraCB ( <sup>13</sup> C <sub>12</sub> , 99%)	60	10	10	10	10	10	10	10
2,3,3',5,5'-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	111	10	10	10	10	10	10	10
2,3,3',4,5,5'-HexaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	159	10	10	10	10	10	10	10

Catalog No.	Compound	Amount	Price(¥)
EC-5422	DL-PCB RH12 Extraction Spike	1.2 mL in nonane	¥216,000
<b>NEW!</b> EC-5422-10X	DL-PCB RH12 Extraction Spike	1.2 mL in nonane	¥369,200

Labeled	IUPAC	EC-5422 (ng/mL)	EC-5422-10X (ng/mL)
3,4,4',5-TetraCB ( <sup>13</sup> C <sub>12</sub> , 99%)	81	100	1000
3,3',4,4'-TetraCB ( <sup>13</sup> C <sub>12</sub> , 99%)	77	100	1000
2',3,4,4',5-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	123	100	1000
2,3',4,4',5-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	118	200	2000
2,3,4,4',5-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	114	100	1000
2,3,3',4,4'-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	105	200	2000
3,3',4,4',5-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	126	100	1000
2,3',4,4',5,5'-HexaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	167	100	1000
2,3,3',4,4',5-HexaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	156	200	2000
2,3,3',4,4',5'-HexaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	157	100	1000
2,2',3,4,4',5,5'-HeptaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	180	100	1000
3,3',4,4',5,5'-HexaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	169	100	1000
2,3,3',4,4',5,5'-HeptaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	189	100	1000

EC-5423	DL-PCB RH12 Syringe Spike	1.2 mL in nonane	¥95,800
EC-5423-10X	DL-PCB RH12 Syringe Spike	1.2 mL in nonane	お問い合わせ

Labeled	IUPAC	EC-5423 (ng/mL)	EC-5423-10X (ng/mL)
2,3',4',5-TetraCB ( <sup>13</sup> C <sub>12</sub> , 99%)	70	100	1000
3,3',4,5,5'-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	127	100	1000
2,2',3,3',4,4'-HexaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	128	100	1000
2,2',3,3',4,4',5-HeptaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	170	100	1000

EC-5424	DL-PCB RH12 Sampling Spike	1.2 mL in nonane	¥73,200
<b>NEW!</b> EC-5424-10X	DL-PCB RH12 Sampling Spike	1.2 mL in nonane	お問い合わせ

Labeled	IUPAC	EC-5424 (ng/mL)	EC-5424-10X (ng/mL)
2,3,4,4'-TetraCB ( <sup>13</sup> C <sub>12</sub> , 99%)	60	100	1000
2,3,3',5,5'-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	111	100	1000
2,3,3',4,5,5'-HexaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	159	100	1000

<b>NEW!</b> EC-5505-10X	DL-PCB RH12 Native Spike (excluding PCB-170)	1.2 mL in nonane	¥57,600
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Labeled	IUPAC	(ng/mL)
3,4,4',5-TetraCB	81	1000
3,3',4,4'-TetraCB	77	1000
2',3,4,4',5-PentaCB	123	1000
2,3',4,4',5-PentaCB	118	2000
2,3,4,4',5-PentaCB	114	1000
2,3,3',4,4'-PentaCB	105	2000
3,3',4,4',5-PentaCB	126	1000
2,3',4,4',5,5'-HexaCB	167	1000
2,3,3',4,4',5-HexaCB	156	2000
2,3,3',4,4',5'-HexaCB	157	1000
3,3',4,4',5,5'-HexaCB	169	1000
2,2',3,4,4',5,5'-HeptaCB	180	1000
2,3,3',4,4',5,5'-HeptaCB	189	1000



# JIS PCB Methods Standard Mixtures

Catalog No.	Compound	Amount	Price(¥)
EC-5323-H	Modified JIS PCB Calibration Solutions [CS1H-CS5H]	Set of 5 × 0.2 mL in nonane/ isooctane	お問い合わせ
EC-5323-H-E	Modified JIS PCB Extended Calibration Solutions [CS0.4H-CS6H]	Set of 7 × 0.2 mL in nonane/ isooctane	お問い合わせ
EC-5323-CS0.4H	Modified JIS PCB Extended Calibration Solution [CS0.4H]	0.2 mL in nonane/ isooctane	お問い合わせ
EC-5323-CS1H	Modified JIS PCB Extended Calibration Solution [CS1H]	0.2 mL in nonane/ isooctane	お問い合わせ
EC-5323-CS2H	Modified JIS PCB Extended Calibration Solution [CS2H]	0.2 mL in nonane/ isooctane	お問い合わせ
EC-5323-CS3H	Modified JIS PCB Extended Calibration Solution [CS3H]	0.2 mL in nonane/ isooctane	お問い合わせ
EC-5323-CS4H	Modified JIS PCB Extended Calibration Solution [CS4H]	0.2 mL in nonane/ isooctane	お問い合わせ
EC-5323-CS5H	Modified JIS PCB Extended Calibration Solution [CS5H]	0.2 mL in nonane/ isooctane	お問い合わせ
EC-5323-CS6H	Modified JIS PCB Extended Calibration Solution [CS6H]	0.2 mL in nonane/ isooctane	お問い合わせ

All concentrations are in ng/mL (ppb)

Unlabeled	IUPAC	CS0.4H	CS1H	CS2H	CS3H	CS4H	CS5H	CS6H
3,4,4',5-TetraCB	81	0.1	0.25	1	5	20	100	500
3,3',4,4'-TetraCB	77	0.1	0.25	1	5	20	100	500
3,3',4,4',5-PentaCB	126	0.1	0.25	1	5	20	100	500
3,3',4,4',5,5'-HexaCB	169	0.1	0.25	1	5	20	100	500
2',3,4,4',5-PentaCB	123	0.1	0.25	1	5	20	100	500
2,3',4,4',5-PentaCB	118	0.1	0.25	1	5	20	100	500
2,3,3',4,4'-PentaCB	105	0.1	0.25	1	5	20	100	500
2,3,4,4',5-PentaCB	114	0.1	0.25	1	5	20	100	500
2,3',4,4',5,5'-HexaCB	167	0.1	0.25	1	5	20	100	500
2,3,3',4,4',5-HexaCB	156	0.1	0.25	1	5	20	100	500
2,3,3',4,4',5'-HexaCB	157	0.1	0.25	1	5	20	100	500
2,3,3',4,4',5,5'-HeptaCB	189	0.1	0.25	1	5	20	100	500
2,2',3,3',4,4',5-HeptaCB	170	0.1	0.25	1	5	20	100	500
2,2',3,4,4',5,5'-HeptaCB	180	0.1	0.25	1	5	20	100	500
<b>Cleanup</b>								
3,4,4',5-TetraCB ( <sup>13</sup> C <sub>12</sub> , 99%)	81	10	10	10	10	10	10	10
3,3',4,4'-TetraCB ( <sup>13</sup> C <sub>12</sub> , 99%)	77	10	10	10	10	10	10	10
3,3',4,4',5-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	126	10	10	10	10	10	10	10
3,3',4,4',5,5'-HexaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	169	10	10	10	10	10	10	10
2',3,4,4',5-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	123	10	10	10	10	10	10	10
2,3',4,4',5-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	118	20	20	20	20	20	20	20
2,3,3',4,4'-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	105	20	20	20	20	20	20	20
2,3,4,4',5-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	114	10	10	10	10	10	10	10
2,3',4,4',5,5'-HexaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	167	10	10	10	10	10	10	10
2,3,3',4,4',5-HexaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	156	20	20	20	20	20	20	20
2,3,3',4,4',5'-HexaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	157	10	10	10	10	10	10	10
2,3,3',4,4',5,5'-HeptaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	189	10	10	10	10	10	10	10
2,2',3,3',4,4',5-HeptaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	170	10	10	10	10	10	10	10
2,2',3,4,4',5,5'-HeptaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	180	10	10	10	10	10	10	10
<b>Syringe</b>								
2,3',4',5-TetraCB ( <sup>13</sup> C <sub>12</sub> , 99%)	70	10	10	10	10	10	10	10
2,3,3',5,5'-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	111	10	10	10	10	10	10	10
2,2',3,4,4',5-HexaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	138	10	10	10	10	10	10	10
2,2',3,3',5,5',6-HeptaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	178	10	10	10	10	10	10	10
<b>Sampling</b>								
3,3',4,5'-TetraCB ( <sup>13</sup> C <sub>12</sub> , 99%)	79	10	10	10	10	10	10	10

Catalog No.	Compound	Amount	Price(¥)
EC-5360	Modified JIS PCB Alternate A Extended Calibration Solutions [CS0.4H-CS6H]	Set of 7 × 0.2 mL in nonane/ isooctane	¥1,015,000
EC-5360-CS0.4H	Modified JIS PCB Alternate A Extended Calibration Solution [CS0.4H]	0.2 mL in nonane/ isooctane	¥188,200
EC-5360-CS1H	Modified JIS PCB Alternate A Extended Calibration Solution [CS1H]	0.2 mL in nonane/ isooctane	¥188,200
EC-5360-CS2H	Modified JIS PCB Alternate A Extended Calibration Solution [CS2H]	0.2 mL in nonane/ isooctane	¥188,200
EC-5360-CS3H	Modified JIS PCB Alternate A Extended Calibration Solution [CS3H]	0.2 mL in nonane/ isooctane	¥179,400
EC-5360-CS4H	Modified JIS PCB Alternate A Extended Calibration Solution [CS4H]	0.2 mL in nonane/ isooctane	¥188,200
EC-5360-CS5H	Modified JIS PCB Alternate A Extended Calibration Solution [CS5H]	0.2 mL in nonane/ isooctane	¥188,200
EC-5360-CS6H	Modified JIS PCB Alternate A Extended Calibration Solution [CS6H]	0.2 mL in nonane/ isooctane	¥188,200

All concentrations are in ng/mL (ppb)

Unlabeled	IUPAC	CS0.4H	CS1H	CS2H	CS3H	CS4H	CS5H	CS6H
3,4,4',5-TetraCB	81	0.1	0.25	1	5	20	100	500
3,3',4,4'-TetraCB	77	0.1	0.25	1	5	20	100	500
3,3',4,4',5-PentaCB	126	0.1	0.25	1	5	20	100	500
3,3',4,4',5,5'-HexaCB	169	0.1	0.25	1	5	20	100	500
2',3,4,4',5-PentaCB	123	0.1	0.25	1	5	20	100	500
2,3',4,4',5-PentaCB	118	0.2	0.5	2	10	40	200	1000
2,3,3',4,4'-PentaCB	105	0.2	0.5	2	10	40	200	1000
2,3,4,4',5-PentaCB	114	0.1	0.25	1	5	20	100	500
2,3',4,4',5,5'-HexaCB	167	0.1	0.25	1	5	20	100	500
2,3,3',4,4',5-HexaCB	156	0.2	0.5	2	10	40	200	1000
2,3,3',4,4',5'-HexaCB	157	0.1	0.25	1	5	20	100	500
2,3,3',4,4',5,5'-HeptaCB	189	0.1	0.25	1	5	20	100	500
2,2',3,3',4,4',5-HeptaCB	170	0.1	0.25	1	5	20	100	500
2,2',3,4,4',5,5'-HeptaCB	180	0.1	0.25	1	5	20	100	500
<b>Cleanup</b>								
3,4,4',5-TetraCB ( <sup>13</sup> C <sub>12</sub> , 99%)	81	10	10	10	10	10	10	10
3,3',4,4'-TetraCB ( <sup>13</sup> C <sub>12</sub> , 99%)	77	10	10	10	10	10	10	10
3,3',4,4',5-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	126	10	10	10	10	10	10	10
3,3',4,4',5,5'-HexaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	169	10	10	10	10	10	10	10
2',3,4,4',5-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	123	10	10	10	10	10	10	10
2,3',4,4',5-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	118	20	20	20	20	20	20	20
2,3,3',4,4'-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	105	20	20	20	20	20	20	20
2,3,4,4',5-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	114	10	10	10	10	10	10	10
2,3',4,4',5,5'-HexaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	167	10	10	10	10	10	10	10
2,3,3',4,4',5-HexaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	156	20	20	20	20	20	20	20
2,3,3',4,4',5'-HexaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	157	10	10	10	10	10	10	10
2,3,3',4,4',5,5'-HeptaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	189	10	10	10	10	10	10	10
2,2',3,3',4,4',5-HeptaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	170	10	10	10	10	10	10	10
2,2',3,4,4',5,5'-HeptaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	180	10	10	10	10	10	10	10
<b>Syringe</b>								
2,3',4',5-TetraCB ( <sup>13</sup> C <sub>12</sub> , 99%)	70	10	10	10	10	10	10	10
2,3,3',5,5'-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	111	10	10	10	10	10	10	10
2,2',3,4,4',5-HexaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	138	10	10	10	10	10	10	10
2,2',3,3',5,5',6-HeptaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	178	10	10	10	10	10	10	10
<b>Sampling</b>								
3,3',4,5'-TetraCB ( <sup>13</sup> C <sub>12</sub> , 99%)	79	10	10	10	10	10	10	10



# JIS PCB Methods Standard Mixtures

Catalog No.	Compound	Amount	Price(¥)
EC-5324	Modified JIS PCB Cleanup Spike	1.2 mL in nonane	¥170,600

Labeled	IUPAC	(ng/mL)
3,4,4',5-TetraCB ( <sup>13</sup> C <sub>12</sub> , 99%)	81	50
3,3',4,4'-TetraCB ( <sup>13</sup> C <sub>12</sub> , 99%)	77	50
3,3',4,4',5-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	126	50
3,3',4,4',5,5'-HexaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	169	50
2',3,4,4',5-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	123	50
2,3',4,4',5-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	118	100
2,3,3',4,4'-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	105	100
2,3,4,4',5-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	114	50
2,3',4,4',5,5'-HexaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	167	50
2,3,3',4,4',5-HexaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	156	100
2,3,3',4,4',5'-HexaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	157	50
2,3,3',4,4',5,5'-HeptaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	189	50
2,2',3,3',4,4',5-HeptaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	170	50
2,2',3,4,4',5,5'-HeptaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	180	50

EC-5325	Modified JIS PCB Syringe Spike	1.2 mL in nonane	¥78,400
EC-5325-0.2X	Modified JIS PCB Syringe Spike	10 mL in nonane	¥48,800
EC-5325-20X	Modified JIS PCB Syringe Spike	1.2 mL in nonane	¥395,200

Labeled	IUPAC	EC-5325 (ng/mL)	EC-5325-0.2X (ng/mL)	EC-5325-20X (ng/mL)
2,3',4',5-TetraCB ( <sup>13</sup> C <sub>12</sub> , 99%)	70	50	10	1000
2,3,3',5,5'-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	111	50	10	1000
2,2',3,4,4',5'-HexaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	138	50	10	1000
2,2',3,3',5,5',6-HeptaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	178	50	10	1000

EC-5326	Modified JIS PCB Syringe Spike	1.2 mL in nonane	¥29,600
<b>NEW!</b> EC-5326-20X	Modified JIS PCB Syringe Spike	1.2 mL in nonane	¥105,000

Labeled	IUPAC	EC-5326 (ng/mL)	EC-5326-20X (ng/mL)
3,3',4,5'-TetraCB ( <sup>13</sup> C <sub>12</sub> , 99%)	79	50	1000



Following the unprecedented release of dioxins and furans into the environment during the Seveso, Italy, industrial accident in 1976, regulatory agencies around the world initiated strict testing programs to monitor these toxic compounds. CIL and Cerilliant collaborated with the US EPA to prepare the first isotope dilution mass spectrometry (IDMS) standard mixtures for the analysis of PCDDs and PCDFs.



## Dioxin and Furan Plus PCB Standard Mixtures

Catalog No.	Compound	Amount	Price(¥)
EDF-5393	Dioxin Cleanup Spike (シリーズZK)	1.2 mL in nonane	¥207,200

Labeled	IUPAC	(ng/mL)
2,3,7,8-TetraCDD ( <sup>13</sup> C <sub>12</sub> , 99%)		20
1,3,6,8-TetraCDD ( <sup>13</sup> C <sub>12</sub> , 99%)		20
1,2,3,7,8-PentaCDD ( <sup>13</sup> C <sub>12</sub> , 99%)		20
1,2,3,4,7,8-HexaCDD ( <sup>13</sup> C <sub>12</sub> , 99%)		20
1,2,3,6,7,8-HexaCDD ( <sup>13</sup> C <sub>12</sub> , 99%)		20
1,2,3,7,8,9-HexaCDD ( <sup>13</sup> C <sub>12</sub> , 99%)		20
1,2,3,4,6,7,8-HeptaCDD ( <sup>13</sup> C <sub>12</sub> , 99%)		20
OctaCDD ( <sup>13</sup> C <sub>12</sub> , 99%)		40
2,3,7,8-TetraCDF ( <sup>13</sup> C <sub>12</sub> , 99%)		20
1,3,6,8-TetraCDF ( <sup>13</sup> C <sub>12</sub> , 99%)		20
1,2,3,7,8-PentaCDF ( <sup>13</sup> C <sub>12</sub> , 99%)		20
2,3,4,7,8-PentaCDF ( <sup>13</sup> C <sub>12</sub> , 99%)		20
1,2,3,4,7,8-HexaCDF ( <sup>13</sup> C <sub>12</sub> , 99%)		20
1,2,3,6,7,8-HexaCDF ( <sup>13</sup> C <sub>12</sub> , 99%)		20
2,3,4,6,7,8-HexaCDF ( <sup>13</sup> C <sub>12</sub> , 99%)		20
1,2,3,7,8,9-HexaCDF ( <sup>13</sup> C <sub>12</sub> , 99%)		20
1,2,3,4,6,7,8-HeptaCDF ( <sup>13</sup> C <sub>12</sub> , 99%)		20
1,2,3,4,7,8,9-HeptaCDF ( <sup>13</sup> C <sub>12</sub> , 99%)		20
OctaCDF ( <sup>13</sup> C <sub>12</sub> , 99%)		40
3,4,4',5-TetraCB ( <sup>13</sup> C <sub>12</sub> , 99%)	81	20
3,3',4,4'-TetraCB ( <sup>13</sup> C <sub>12</sub> , 99%)	77	20
3,3',4,4',5-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	126	20
3,3',4,4',5,5'-HexaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	169	20
2',3,4,4',5-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	123	20
2,3',4,4',5-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	118	20
2,3,3',4,4'-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	105	20
2,3,4,4',5-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	114	20
2,3',4,4',5,5'-HexaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	167	20
2,3,3',4,4',5-HexaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	156	20
2,3,3',4,4',5'-HexaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	157	20
2,3,3',4,4',5,5'-HeptaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	189	20
2,2',3,3',4,4',5-HeptaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	170	20
2,2',3,4,4',5,5'-HeptaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	180	20

EDF-5395	Dioxin Sampling Spike (シリーズZK)	1.2 mL in nonane	¥78,400
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Labeled	IUPAC	(ng/μL)
1,2,3,4-TetraCDF ( <sup>13</sup> C <sub>12</sub> , 99%)		50
1,2,3,4-TetraCDD ( <sup>13</sup> C <sub>12</sub> , 99%)		50
3,3',4,5'-TetraCB ( <sup>13</sup> C <sub>12</sub> , 99%)	79	50

JIS Methods K0311 and K0312 Dioxin/  
Furan Standard Mixtures

Catalog No.	Compound	Amount	Price(¥)
<b>NEW!</b> EDF-5328	Modified JIS Dioxin/ Furan Cleanup Spike	1.2 mL in nonane	¥216,000

Labeled	(ng/mL)
2,3,7,8-TetraCDD ( <sup>13</sup> C <sub>12</sub> , 99%)	50
1,3,6,8-TetraCDD ( <sup>13</sup> C <sub>12</sub> , 99%)	50
1,2,3,7,8-PentaCDD ( <sup>13</sup> C <sub>12</sub> , 99%)	50
1,2,3,4,7,8-HexaCDD ( <sup>13</sup> C <sub>12</sub> , 99%)	50
1,2,3,6,7,8-HexaCDD ( <sup>13</sup> C <sub>12</sub> , 99%)	50
1,2,3,7,8,9-HexaCDD ( <sup>13</sup> C <sub>12</sub> , 99%)	50
1,2,3,4,6,7,8-HeptaCDD ( <sup>13</sup> C <sub>12</sub> , 99%)	50
OctaCDD ( <sup>13</sup> C <sub>12</sub> , 99%)	100
2,3,7,8-TetraCDF ( <sup>13</sup> C <sub>12</sub> , 99%)	50
1,3,6,8-TetraCDF ( <sup>13</sup> C <sub>12</sub> , 99%)	50
1,2,7,8-TetraCDF ( <sup>13</sup> C <sub>12</sub> , 99%)	50
1,2,3,7,8-PentaCDF ( <sup>13</sup> C <sub>12</sub> , 99%)	50
2,3,4,7,8-PentaCDF ( <sup>13</sup> C <sub>12</sub> , 99%)	50
1,2,3,4,7,8-HexaCDF ( <sup>13</sup> C <sub>12</sub> , 99%)	50
1,2,3,6,7,8-HexaCDF ( <sup>13</sup> C <sub>12</sub> , 99%)	50
2,3,4,6,7,8-HexaCDF ( <sup>13</sup> C <sub>12</sub> , 99%)	50
1,2,3,7,8,9-HexaCDF ( <sup>13</sup> C <sub>12</sub> , 99%)	50
1,2,3,4,6,7,8-HeptaCDF ( <sup>13</sup> C <sub>12</sub> , 99%)	50
1,2,3,4,7,8,9-HeptaCDF ( <sup>13</sup> C <sub>12</sub> , 99%)	50
OctaCDF ( <sup>13</sup> C <sub>12</sub> , 99%)	100

<b>NEW!</b> EDF-5329	Modified JIS Dioxin/Furan Syringe Spike	1.2 mL in nonane	¥85,400
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Labeled	(ng/mL)
1,2,3,4-TetraCDD ( <sup>13</sup> C <sub>12</sub> , 99%)	50
1,2,3,4,7-PentaCDD ( <sup>13</sup> C <sub>12</sub> , 99%)	50
1,2,3,4,6,9-HexaCDF ( <sup>13</sup> C <sub>12</sub> , 99%)	50
1,2,3,4,6,8,9-HeptaCDF ( <sup>13</sup> C <sub>12</sub> , 99%)	50



## Bromodioxin/Furan Standard Mixtures

Catalog No.	Description	Amount	Price(¥)
EDF-5407	Bromodioxin/Furan Calibration Standard Solutions [CS1-CS5]	Set of 5 × 0.2 mL in nonane	¥901,800

Individual calibration levels are also available for purchase.

All concentrations are ng/mL

Unlabeled	CS1	CS2	CS3	CS4	CS5
2,3,7,8-TetraBDD	0.1	0.4	2.0	10	50
1,2,3,7,8-PentaBDD	0.2	0.8	4.0	20	100
1,2,3,4,7,8-HexaBDD	0.6	2.4	12.0	60	300
1,2,3,6,7,8-HexaBDD	0.6	2.4	12.0	60	300
1,2,3,7,8,9-HexaBDD	0.6	2.4	12.0	60	300
1,2,3,4,6,7,8-HeptaBDD	0.75	3.0	15.0	75	375
OctaBDD	1.0	4.0	20.0	100	500
2,3,7,8-TetraBDF	0.2	0.8	4.0	20	100
2,4,6,8-TetraBDF	0.2	0.8	4.0	20	100
1,2,3,7,8-PentaBDF	0.4	1.6	8.0	40	200
2,3,4,7,8-PentaBDF	0.4	1.6	8.0	40	200
1,2,3,4,7,8-HexaBDF	0.6	2.4	12.0	60	300
1,2,3,4,6,7,8-HeptaBDF	0.75	3.0	15.0	75	375
OctaBDF	1.0	4.0	20.0	100	500
<b>Labeled</b>					
2,3,7,8-TetraBDD ( <sup>13</sup> C <sub>12</sub> , 99%)	20	20	20	20	20
1,2,3,7,8-PentaBDD ( <sup>13</sup> C <sub>12</sub> , 99%)	20	20	20	20	20
1,2,3,4,7,8-HexaBDD ( <sup>13</sup> C <sub>12</sub> , 99%)	50	50	50	50	50
1,2,3,6,7,8-HexaBDD ( <sup>13</sup> C <sub>12</sub> , 99%)	50	50	50	50	50
1,2,3,7,8,9-HexaBDD ( <sup>13</sup> C <sub>12</sub> , 99%)	50	50	50	50	50
1,2,3,4,6,7,8-HeptaBDD ( <sup>13</sup> C <sub>12</sub> , 99%)	100	100	100	100	100
OctaBDD ( <sup>13</sup> C <sub>12</sub> , 99%)	150	150	150	150	150
2,3,7,8-TetraBDF ( <sup>13</sup> C <sub>12</sub> , 99%)	20	20	20	20	20
2,4,6,8-TetraBDF ( <sup>13</sup> C <sub>12</sub> , 99%)	20	20	20	20	20
1,2,3,7,8-PentaBDF ( <sup>13</sup> C <sub>12</sub> , 99%)	20	20	20	20	20
2,3,4,7,8-PentaBDF ( <sup>13</sup> C <sub>12</sub> , 99%)	20	20	20	20	20
1,2,3,4,7,8-HexaBDF ( <sup>13</sup> C <sub>12</sub> , 99%)	50	50	50	50	50
1,2,3,4,6,7,8-HeptaBDF ( <sup>13</sup> C <sub>12</sub> , 99%)	100	100	100	100	100
OctaBDF ( <sup>13</sup> C <sub>12</sub> , 99%)	150	150	150	150	150

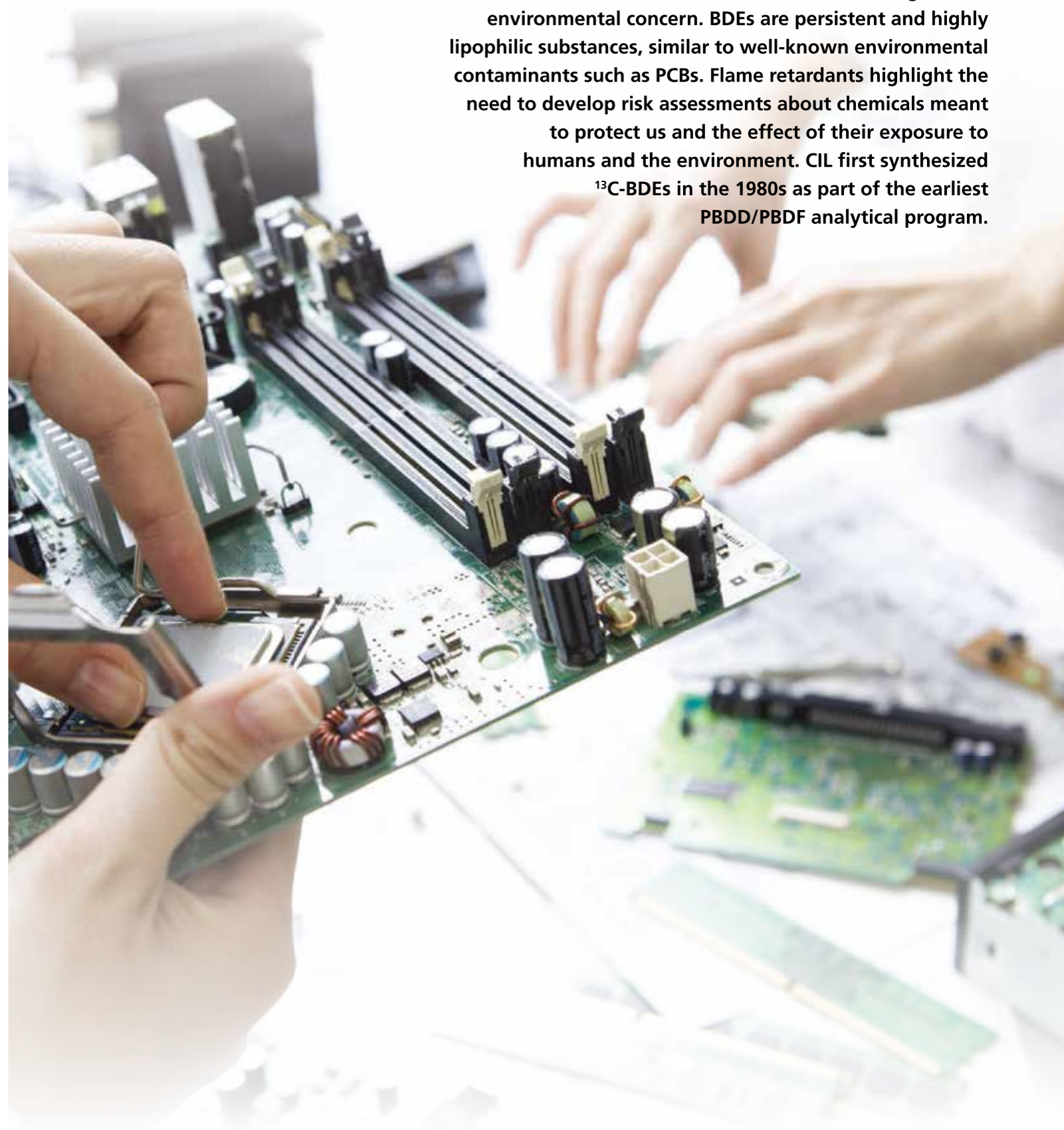
Catalog No.	Description	Amount	Price(¥)
EDF-5408	Bromodioxin/Furan Cleanup Spike	0.5 mL in nonane	¥886,200
EDF-5409-A	Bromodioxin/Furan Syringe Spike	1.2 mL in nonane:toluene	¥188,200
EF-5410	Bromodioxin/Furan Sampling Spike	1.2 mL in nonane	¥78,400
EDF-5517	Bromodioxin/Furan Native PAR Solution	1.2 mL in nonane	¥639,000

All concentrations are ng/mL

Unlabeled	EDF-5408	EDF-5409-A	EF-5410	EDF-5517
2,3,7,8-TetraBDD	-	-	-	50
1,2,3,7,8-PentaBDD	-	-	-	100
1,2,3,4,7,8-HexaBDD	-	-	-	300
1,2,3,6,7,8-HexaBDD	-	-	-	300
1,2,3,7,8,9-HexaBDD	-	-	-	300
1,2,3,4,6,7,8-HeptaBDD	-	-	-	375
OctaBDD	-	-	-	500
2,3,7,8-TetraBDF	-	-	-	100
2,4,6,8-TetraBDF	-	-	-	100
1,2,3,7,8-PentaBDF	-	-	-	200
2,3,4,7,8-PentaBDF	-	-	-	200
1,2,3,4,7,8-HexaBDF	-	-	-	300
1,2,3,4,6,7,8-HeptaBDF	-	-	-	375
OctaBDF	-	-	-	500
<b>Labeled</b>				
2,3,7,8-TetraBDD ( <sup>13</sup> C <sub>12</sub> , 99%)	100	-	-	-
1,2,3,7,8-PentaBDD ( <sup>13</sup> C <sub>12</sub> , 99%)	100	-	-	-
1,2,3,4,7,8-HexaBDD ( <sup>13</sup> C <sub>12</sub> , 99%)	250	-	-	-
1,2,3,6,7,8-HexaBDD ( <sup>13</sup> C <sub>12</sub> , 99%)	250	-	-	-
1,2,3,4,6,7,8-HeptaBDD ( <sup>13</sup> C <sub>12</sub> , 99%)	500	-	-	-
OctaBDD ( <sup>13</sup> C <sub>12</sub> , 99%)	750	-	-	-
2,3,7,8-TetraBDF ( <sup>13</sup> C <sub>12</sub> , 99%)	100	-	-	-
2,3,4,7,8-PentaBDF ( <sup>13</sup> C <sub>12</sub> , 99%)	100	-	-	-
1,2,3,4,7,8-HexaBDF ( <sup>13</sup> C <sub>12</sub> , 99%)	250	-	-	-
1,2,3,4,6,7,8-HeptaBDF ( <sup>13</sup> C <sub>12</sub> , 99%)	500	-	-	-
OctaBDF ( <sup>13</sup> C <sub>12</sub> , 99%)	750	-	-	-
<b>Sampling</b>				
2,4,6,8-TetraBDF ( <sup>13</sup> C <sub>12</sub> , 99%)	-	-	200	-
<b>Syringe</b>				
1,2,3,7,8,9-HexaBDD ( <sup>13</sup> C <sub>12</sub> , 99%)	-	500	-	-
1,2,3,7,8-PentaBDF ( <sup>13</sup> C <sub>12</sub> , 99%)	-	200	-	-



Generally used as flame retardants, brominated diphenyl ethers (BDEs) have become chemicals of significant environmental concern. BDEs are persistent and highly lipophilic substances, similar to well-known environmental contaminants such as PCBs. Flame retardants highlight the need to develop risk assessments about chemicals meant to protect us and the effect of their exposure to humans and the environment. CIL first synthesized <sup>13</sup>C-BDEs in the 1980s as part of the earliest PBDD/PBDF analytical program.





## RoHS Brominated Diphenyl Ether (BDE) Standard Mixtures

Catalog No.	Compound	Amount	Price(¥)
EO-5426	RoHS Screening PBDE Cleanup Spike	1.2 mL in nonane	¥344,800

Labeled	BDE	(ng/mL)
4,4'-DiBDE ( <sup>13</sup> C <sub>12</sub> , 99%)	15	1000
2,4,4'-TriBDE ( <sup>13</sup> C <sub>12</sub> , 99%)	28	1000
2,2',4,4'-TetraBDE ( <sup>13</sup> C <sub>12</sub> , 99%)	47	1000
2,2',4,4',5-PentaBDE ( <sup>13</sup> C <sub>12</sub> , 99%)	99	1000
2,2',4,4',5,5'-HexaBDE ( <sup>13</sup> C <sub>12</sub> , 99%)	153	1000
2,2',4,4',5,6'-HexaBDE ( <sup>13</sup> C <sub>12</sub> , 99%)	154	1000
2,2',3,4,4',5',6-HeptaBDE ( <sup>13</sup> C <sub>12</sub> , 99%)	183	1000
2,2',3,3',4,4',6,6'-OctaBDE ( <sup>13</sup> C <sub>12</sub> , 99%)	197	2500
2,2',3,3',4,4',5,5',6-NonaBDE ( <sup>13</sup> C <sub>12</sub> , 99%)	206	5000
2,2',3,3',4,5,5',6,6'-NonaBDE ( <sup>13</sup> C <sub>12</sub> , 99%)	208	2500
DecaBDE ( <sup>13</sup> C <sub>12</sub> , 99%)	209	25,000

EO-5428	RoHS Screening PBDE Native PAR Spike	1.2 mL in nonane	¥67,600
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Unlabeled	BDE	(ng/mL)
4,4'-DiBDE	15	1000
2,4,4'-TriBDE	28	1000
2,2',4,4'-TetraBDE	47	1000
2,2',4,4',5-PentaBDE	99	1000
2,2',4,4',5,5'-HexaBDE	153	1000
2,2',4,4',5,6'-HexaBDE	154	1000
2,2',3,4,4',5',6-HeptaBDE	183	1000
2,2',3,3',4,4',6,6'-OctaBDE	197	2500
2,2',3,3',4,4',5,5',6-NonaBDE	206	5000
2,2',3,3',4,4',5,6,6'-NonaBDE	207	2500
2,2',3,3',4,5,5',6,6'-NonaBDE	208	2500
DecaBDE	209	25,000

Essential to agricultural productivity and general pest control, many pesticides have been found to be toxic to humans and animals, and as such have been banned from use in numerous countries. The Stockholm Convention has focused worldwide attention on analysis of the most toxic pesticides. CIL promotes the development of new isotope-labeled legacy and "new use" pesticides to support laboratories using IDMS for the most accurate analytical results.





## Pesticide Standard Mixtures

Catalog No.	Compound	Amount	Price(¥)
ES-5348	POPs Pesticides Calibration Solutions [CS1-CS6]	Set of 6 × 0.2 mL in nonane	¥904,000

Individual calibration solutions are available. Please inquire.

All concentrations are in ng/mL (ppb)

Unlabeled	CS1	CS2	CS3	CS4	CS5	CS6
Hexachlorobenzene	0.4	2	10	40	200	800
Aldrin	0.4	2	10	40	200	800
Dieldrin	0.4	2	10	40	200	800
Endrin	0.4	2	10	40	200	800
4,4'-DDT	0.4	2	10	40	200	800
4,4'-DDE	0.4	2	10	40	200	800
4,4'-DDD	0.4	2	10	40	200	800
2,4'-DDT	0.4	2	10	40	200	800
2,4'-DDE	0.4	2	10	40	200	800
2,4'-DDD	0.4	2	10	40	200	800
trans-Chlordane (γ)	0.4	2	10	40	200	800
cis-Chlordane (α)	0.4	2	10	40	200	800
trans-Nonachlor	0.4	2	10	40	200	800
cis-Nonachlor	0.4	2	10	40	200	800
Oxychlordane	0.4	2	10	40	200	800
Heptachlor	0.4	2	10	40	200	800
trans-Heptachlor epoxide	0.4	2	10	40	200	800
cis-Heptachlor epoxide	0.4	2	10	40	200	800
Mirex	0.4	2	10	40	200	800
α-HCH (α-BHC)	0.4	2	10	40	200	800
β-HCH (β-BHC)	0.4	2	10	40	200	800
γ-HCH (γ-BHC) (lindane)	0.4	2	10	40	200	800
δ-HCH (δ-BHC)	0.4	2	10	40	200	800
<b>Cleanup</b>						
Hexachlorobenzene ( <sup>13</sup> C <sub>6</sub> , 99%)	20	20	20	20	20	20
Aldrin ( <sup>13</sup> C <sub>12</sub> , 99%)	20	20	20	20	20	20
Dieldrin ( <sup>13</sup> C <sub>12</sub> , 99%)	20	20	20	20	20	20
Endrin ( <sup>13</sup> C <sub>12</sub> , 99%)	20	20	20	20	20	20
4,4'-DDT (ring- <sup>13</sup> C <sub>12</sub> , 99%)	20	20	20	20	20	20
4,4'-DDE (ring- <sup>13</sup> C <sub>12</sub> , 99%)	20	20	20	20	20	20
4,4'-DDD (ring- <sup>13</sup> C <sub>12</sub> , 99%)	20	20	20	20	20	20
2,4'-DDT (ring- <sup>13</sup> C <sub>12</sub> , 99%)	20	20	20	20	20	20
2,4'-DDE (ring- <sup>13</sup> C <sub>12</sub> , 99%)	20	20	20	20	20	20
2,4'-DDD (ring- <sup>13</sup> C <sub>12</sub> , 99%)	20	20	20	20	20	20
trans-Chlordane (γ) ( <sup>13</sup> C <sub>10</sub> , 99%)	20	20	20	20	20	20
trans-Nonachlor ( <sup>13</sup> C <sub>10</sub> , 99%)	20	20	20	20	20	20
cis-Nonachlor ( <sup>13</sup> C <sub>10</sub> , 99%)	20	20	20	20	20	20
Oxychlordane ( <sup>13</sup> C <sub>10</sub> , 99%)	20	20	20	20	20	20
Heptachlor ( <sup>13</sup> C <sub>10</sub> , 99%)	20	20	20	20	20	20
cis-Heptachlor epoxide ( <sup>13</sup> C <sub>10</sub> , 99%)	20	20	20	20	20	20
Mirex ( <sup>13</sup> C <sub>10</sub> , 99%)	20	20	20	20	20	20
α-HCH (α-BHC) ( <sup>13</sup> C <sub>6</sub> , 99%)	20	20	20	20	20	20
β-HCH (β-BHC) ( <sup>13</sup> C <sub>6</sub> , 99%)	20	20	20	20	20	20
γ-HCH (γ-BHC) (lindane) ( <sup>13</sup> C <sub>6</sub> , 99%)	20	20	20	20	20	20
δ-HCH (δ-BHC) ( <sup>13</sup> C <sub>6</sub> , 99%)	20	20	20	20	20	20
<b>Syringe</b>						
4,4'-DiCB ( <sup>13</sup> C <sub>12</sub> , 99%) (PCB-15)	20	20	20	20	20	20
2,3',4',5-TetraCB ( <sup>13</sup> C <sub>12</sub> , 99%) (PCB-70)	20	20	20	20	20	20

Catalog No.	Compound	Amount	Price(¥)
ES-5349	POPs Pesticides HRMS Cleanup Spike	1.2 mL in nonane	¥289,800
ES-5400	POPs Cleanup Spike	1.2 mL in nonane	¥359,800
ES-5349-L	POPs Pesticides LRMS Cleanup Spike	0.5 mL in nonane	¥751,400

	ES-5349 (ng/mL)	ES-5400 (ng/mL)	ES-5349-L (ng/mL)
<b>Labeled</b>			
Hexachlorobenzene ( <sup>13</sup> C <sub>6</sub> , 99%)	100	200	1000
Aldrin ( <sup>13</sup> C <sub>12</sub> , 99%)	100	200	1000
Dieldrin ( <sup>13</sup> C <sub>12</sub> , 99%)	100	200	1000
Endrin ( <sup>13</sup> C <sub>12</sub> , 99%)	100	200	1000
4,4'-DDT (ring- <sup>13</sup> C <sub>12</sub> , 99%)	100	200	1000
4,4'-DDE (ring- <sup>13</sup> C <sub>12</sub> , 99%)	100	200	1000
4,4'-DDD (ring- <sup>13</sup> C <sub>12</sub> , 99%)	100	200	1000
2,4'-DDT (ring- <sup>13</sup> C <sub>12</sub> , 99%)	100	200	1000
2,4'-DDE (ring- <sup>13</sup> C <sub>12</sub> , 99%)	100	200	1000
2,4'-DDD (ring- <sup>13</sup> C <sub>12</sub> , 99%)	100	200	1000
trans-Chlordane (γ) ( <sup>13</sup> C <sub>10</sub> , 99%)	100	200	1000
trans-Nonachlor ( <sup>13</sup> C <sub>10</sub> , 99%)	100	200	1000
cis-Nonachlor ( <sup>13</sup> C <sub>10</sub> , 99%)	100	200	1000
Oxychlordane ( <sup>13</sup> C <sub>10</sub> , 99%)	100	200	1000
Heptachlor ( <sup>13</sup> C <sub>10</sub> , 99%)	100	200	1000
cis-Heptachlor epoxide ( <sup>13</sup> C <sub>10</sub> , 99%)	100	200	1000
Mirex ( <sup>13</sup> C <sub>10</sub> , 99%)	100	200	1000
α-HCH (α-BHC) ( <sup>13</sup> C <sub>6</sub> , 99%)	100	200	1000
β-HCH (β-BHC) ( <sup>13</sup> C <sub>6</sub> , 99%)	100	200	1000
γ-HCH (γ-BHC) (lindane) ( <sup>13</sup> C <sub>6</sub> , 99%)	100	200	1000
δ-HCH (δ-BHC) ( <sup>13</sup> C <sub>6</sub> , 99%)	100	200	1000

ES-5399	POPs PAR Solution	1.2 mL in nonane	¥46,800
ES-5399-10X-0.5	POPs PAR Solution (10X concentration)	0.5 mL in nonane	¥143,400

	ES-5399 (ng/mL)	ES-5399-10X-0.5 (ng/mL)
<b>Unlabeled</b>		
Hexachlorobenzene	200	2000
Aldrin	200	2000
Dieldrin	200	2000
Endrin	200	2000
4,4'-DDT	200	2000
4,4'-DDE	200	2000
4,4'-DDD	200	2000
2,4'-DDT	200	2000
2,4'-DDE	200	2000
2,4'-DDD	200	2000
trans-Chlordane (γ)	200	2000
cis-Chlordane (α)	200	2000
trans-Nonachlor	200	2000
cis-Nonachlor	200	2000
Oxychlordane	200	2000
Heptachlor	200	2000
trans-Heptachlor epoxide	200	2000
cis-Heptachlor epoxide	200	2000
Mirex	200	2000
α-HCH (α-BHC)	200	2000
β-HCH (β-BHC)	200	2000
γ-HCH (γ-BHC) (lindane)	200	2000
δ-HCH (δ-BHC)	200	2000



Catalog No.	Compound	Amount	Price(¥)
EC-5350	POPs Pesticides HRMS (PCB) Syringe Spike	1.2 mL in nonane	¥75,600
<b>NEW!</b> EC-5350-L	POPs Pesticides HRMS (PCB) Syringe Spike	1.2 mL in nonane	¥310,400

Labeled	EC-5350 (ng/mL)	EC-5350-L (ng/mL)
4,4'-DiCB ( <sup>13</sup> C <sub>12</sub> , 99%) (PCB-15)	100	1000
2,3',4',5-TetraCB ( <sup>13</sup> C <sub>12</sub> , 99%) (PCB-70)	100	1000

ES-5342	POPs Pesticides, non-Toxaphene, non-HCH HRMS Cleanup Spike	1.2 mL in nonane	¥87,200
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Labeled	(ng/mL)
Hexachlorobenzene ( <sup>13</sup> C <sub>6</sub> , 99%)	10
Aldrin ( <sup>13</sup> C <sub>12</sub> , 99%)	100
Dieldrin ( <sup>13</sup> C <sub>12</sub> , 99%)	20
Endrin ( <sup>13</sup> C <sub>12</sub> , 99%)	100
4,4'-DDT (ring- <sup>13</sup> C <sub>12</sub> , 99%)	100
4,4'-DDE (ring- <sup>13</sup> C <sub>12</sub> , 99%)	20
4,4'-DDD (ring- <sup>13</sup> C <sub>12</sub> , 99%)	100
2,4'-DDT (ring- <sup>13</sup> C <sub>12</sub> , 99%)	100
2,4'-DDE (ring- <sup>13</sup> C <sub>12</sub> , 99%)	20
2,4'-DDD (ring- <sup>13</sup> C <sub>12</sub> , 99%)	100
<i>trans</i> -Chlordane ( $\gamma$ ) ( <sup>13</sup> C <sub>10</sub> , 99%)	10
<i>trans</i> -Nonachlor ( <sup>13</sup> C <sub>10</sub> , 99%)	10
<i>cis</i> -Nonachlor ( <sup>13</sup> C <sub>10</sub> , 99%)	10
Oxychlordane ( <sup>13</sup> C <sub>10</sub> , 99%)	100
Heptachlor ( <sup>13</sup> C <sub>10</sub> , 99%)	20
<i>cis</i> -Heptachlor epoxide ( <sup>13</sup> C <sub>10</sub> , 99%)	20
Mirex ( <sup>13</sup> C <sub>10</sub> , 99%)	20

ES-5344-50X-0.5	POPs HRMS HCH Cleanup Spike	0.5 mL in nonane	¥460,000
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Labeled	(ng/mL)
$\alpha$ -HCH ( $\alpha$ -BHC) ( <sup>13</sup> C <sub>6</sub> , 99%)	1000
$\beta$ -HCH ( $\beta$ -BHC) ( <sup>13</sup> C <sub>6</sub> , 99%)	1000
$\gamma$ -HCH ( $\gamma$ -BHC) (lindane) ( <sup>13</sup> C <sub>6</sub> , 99%)	1000
$\delta$ -HCH ( $\delta$ -BHC) ( <sup>13</sup> C <sub>6</sub> , 99%)	1000



# Stockholm Convention POPs Pesticide Standard Mixtures

Catalog No.	Compound	Amount	Price(¥)
ES-5464	Expanded POPs Pesticides Calibration Solutions [CS1-CS6]	Set of 6 × 0.2 mL in nonane	¥989,200

Individual calibration solutions are available. Please inquire.

All concentrations are in ng/mL (ppb)

Unlabeled	CS1	CS2	CS3	CS4	CS5	CS6
Hexachlorobenzene	0.4	2	10	40	200	800
Pentachlorobenzene	0.4	2	10	40	200	800
Aldrin	0.4	2	10	40	200	800
Dieldrin	0.4	2	10	40	200	800
Endrin	0.4	2	10	40	200	800
4,4'-DDT	0.4	2	10	40	200	800
4,4'-DDE	0.4	2	10	40	200	800
4,4'-DDD	0.4	2	10	40	200	800
2,4'-DDT	0.4	2	10	40	200	800
2,4'-DDE	0.4	2	10	40	200	800
2,4'-DDD	0.4	2	10	40	200	800
trans-Chlordane (γ)	0.4	2	10	40	200	800
cis-Chlordane (α)	0.4	2	10	40	200	800
trans-Nonachlor	0.4	2	10	40	200	800
cis-Nonachlor	0.4	2	10	40	200	800
Oxychlordane	0.4	2	10	40	200	800
Heptachlor	0.4	2	10	40	200	800
trans-Heptachlor epoxide	0.4	2	10	40	200	800
cis-Heptachlor epoxide	0.4	2	10	40	200	800
Mirex	0.4	2	10	40	200	800
Kepone (chlordecone)	0.4	2	10	40	200	800
α-HCH (α-BHC)	0.4	2	10	40	200	800
β-HCH (β-BHC)	0.4	2	10	40	200	800
γ-HCH (γ-BHC) (lindane)	0.4	2	10	40	200	800
δ-HCH (δ-BHC)	0.4	2	10	40	200	800
Endosulfan I	0.4	2	10	40	200	800
Endosulfan II	0.4	2	10	40	200	800
<b>Labeled</b>						
Hexachlorobenzene ( <sup>13</sup> C <sub>6</sub> , 99%)	20	20	20	20	20	20
Pentachlorobenzene ( <sup>13</sup> C <sub>6</sub> , 99%)	20	20	20	20	20	20
Aldrin ( <sup>13</sup> C <sub>12</sub> , 99%)	20	20	20	20	20	20
Endrin ( <sup>13</sup> C <sub>12</sub> , 99%)	20	20	20	20	20	20
Dieldrin ( <sup>13</sup> C <sub>12</sub> , 99%)	20	20	20	20	20	20
4,4'-DDT (ring- <sup>13</sup> C <sub>12</sub> , 99%)	20	20	20	20	20	20
4,4'-DDE (ring- <sup>13</sup> C <sub>12</sub> , 99%)	20	20	20	20	20	20
4,4'-DDD (ring- <sup>13</sup> C <sub>12</sub> , 99%)	20	20	20	20	20	20
2,4'-DDT (ring- <sup>13</sup> C <sub>12</sub> , 99%)	20	20	20	20	20	20
2,4'-DDE (ring- <sup>13</sup> C <sub>12</sub> , 99%)	20	20	20	20	20	20
2,4'-DDD (ring- <sup>13</sup> C <sub>12</sub> , 99%)	20	20	20	20	20	20
trans-Chlordane (γ) ( <sup>13</sup> C <sub>10</sub> , 99%)	20	20	20	20	20	20
trans-Nonachlor ( <sup>13</sup> C <sub>10</sub> , 99%)	20	20	20	20	20	20
cis-Nonachlor ( <sup>13</sup> C <sub>10</sub> , 99%)	20	20	20	20	20	20
Oxychlordane ( <sup>13</sup> C <sub>10</sub> , 99%)	20	20	20	20	20	20
Heptachlor ( <sup>13</sup> C <sub>10</sub> , 99%)	20	20	20	20	20	20
cis-Heptachlor epoxide ( <sup>13</sup> C <sub>10</sub> , 99%)	20	20	20	20	20	20
Mirex ( <sup>13</sup> C <sub>10</sub> , 99%)	20	20	20	20	20	20
Kepone (chlordecone) ( <sup>13</sup> C <sub>10</sub> , 99%)	20	20	20	20	20	20
α-HCH (α-BHC) ( <sup>13</sup> C <sub>6</sub> , 99%)	20	20	20	20	20	20
β-HCH (β-BHC) ( <sup>13</sup> C <sub>6</sub> , 99%)	20	20	20	20	20	20
γ-HCH (γ-BHC) (lindane) ( <sup>13</sup> C <sub>6</sub> , 99%)	20	20	20	20	20	20
δ-HCH (δ-BHC) ( <sup>13</sup> C <sub>6</sub> , 99%)	20	20	20	20	20	20
Endosulfan I ( <sup>13</sup> C <sub>9</sub> , 99%)	20	20	20	20	20	20
Endosulfan II ( <sup>13</sup> C <sub>9</sub> , 99%)	20	20	20	20	20	20
<b>Syringe</b>						
4,4'-DiCB ( <sup>13</sup> C <sub>12</sub> , 99%) (PCB-15)	20	20	20	20	20	20
2,3',4',5-TetraCB ( <sup>13</sup> C <sub>12</sub> , 99%) (PCB-70)	20	20	20	20	20	20
<b>Sampling</b>						
Isodrin ( <sup>13</sup> C <sub>12</sub> , 99%)	20	20	20	20	20	20

Catalog No.	Compound	Amount	Price(¥)
NEW! ES-5465-A	Expanded POPs Pesticides Cleanup Spike with Endosulfan Sulfate	1.2 mL in nonane	¥383,800
NEW! ES-5465-A-5X	Expanded POPs Pesticides Cleanup Spike with Endosulfan Sulfate (5X stock)	1.2 mL in nonane	¥943,200
ES-5465	Expanded POPs Pesticides Cleanup Spike	1.2 mL in nonane	¥383,800
ES-5465-5X	Expanded POPs Pesticides Cleanup Spike (5X stock)	1.2 mL in nonane	¥943,200

Labeled	ES-5465-A (ng/mL)	ES-5465-A-5X (ng/mL)	ES-5465 (ng/mL)	ES-5465-5X (ng/mL)
Hexachlorobenzene ( <sup>13</sup> C <sub>6</sub> , 99%)	100	500	100	500
Pentachlorobenzene ( <sup>13</sup> C <sub>6</sub> , 99%)	100	500	100	500
Aldrin ( <sup>13</sup> C <sub>12</sub> , 99%)	100	500	100	500
Endrin ( <sup>13</sup> C <sub>12</sub> , 99%)	100	500	100	500
Dieldrin ( <sup>13</sup> C <sub>12</sub> , 99%)	100	500	100	500
4,4'-DDT (ring- <sup>13</sup> C <sub>12</sub> , 99%)	100	500	100	500
4,4'-DDE (ring- <sup>13</sup> C <sub>12</sub> , 99%)	100	500	100	500
4,4'-DDD (ring- <sup>13</sup> C <sub>12</sub> , 99%)	100	500	100	500
2,4'-DDT (ring- <sup>13</sup> C <sub>12</sub> , 99%)	100	500	100	500
2,4'-DDE (ring- <sup>13</sup> C <sub>12</sub> , 99%)	100	500	100	500
2,4'-DDD (ring- <sup>13</sup> C <sub>12</sub> , 99%)	100	500	100	500
trans-Chlordane (γ) ( <sup>13</sup> C <sub>10</sub> , 99%)	100	500	100	500
trans-Nonachlor ( <sup>13</sup> C <sub>10</sub> , 99%)	100	500	100	500
cis-Nonachlor ( <sup>13</sup> C <sub>10</sub> , 99%)	100	500	100	500
Oxychlordane ( <sup>13</sup> C <sub>10</sub> , 99%)	100	500	100	500
Heptachlor ( <sup>13</sup> C <sub>10</sub> , 99%)	100	500	100	500
cis-Heptachlor epoxide ( <sup>13</sup> C <sub>10</sub> , 99%)	100	500	100	500
Mirex ( <sup>13</sup> C <sub>10</sub> , 99%)	100	500	100	500
Kepone (chlordecone) ( <sup>13</sup> C <sub>10</sub> , 99%)	100	500	100	500
α-HCH (α-BHC) ( <sup>13</sup> C <sub>6</sub> , 99%)	100	500	100	500
β-HCH (β-BHC) ( <sup>13</sup> C <sub>6</sub> , 99%)	100	500	100	500
γ-HCH (γ-BHC) (lindane) ( <sup>13</sup> C <sub>6</sub> , 99%)	100	500	100	500
δ-HCH (δ-BHC) ( <sup>13</sup> C <sub>6</sub> , 99%)	100	500	100	500
Endosulfan I ( <sup>13</sup> C <sub>9</sub> , 99%)	100	500	100	500
Endosulfan II ( <sup>13</sup> C <sub>9</sub> , 99%)	100	500	100	500
Endosulfan sulfate ( <sup>13</sup> C <sub>9</sub> , 99%)	100	500	–	–

EC-5350	POPs Pesticides HRMS (PCB) Syringe Spike	1.2 mL in nonane	¥75,600
EC-5350-L	POPs Pesticides LRMS (PCB) Syringe Spike	0.5 mL in nonane	¥310,400

Labeled	ES-5350 (ng/mL)	ES-5350-L (ng/mL)
4,4'-DiCB ( <sup>13</sup> C <sub>12</sub> , 99%) (PCB-15)	100	1000
2,3',4',5-TetraCB ( <sup>13</sup> C <sub>12</sub> , 99%) (PCB-70)	100	1000

ES-5466	Expanded POPs Pesticides Sampling Spike	1.2 mL in nonane	¥87,200
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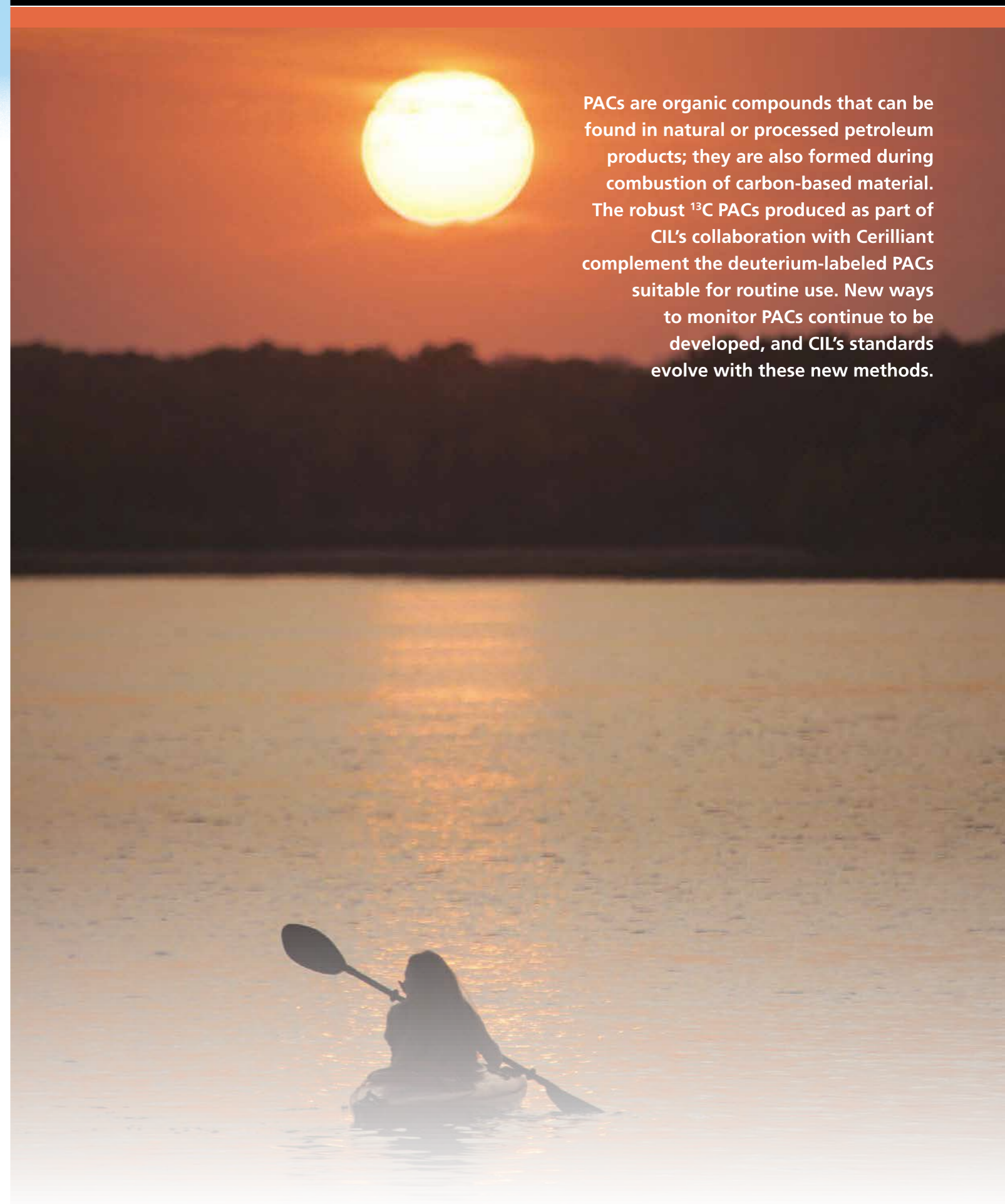
Labeled	(ng/mL)
Isodrin ( <sup>13</sup> C <sub>12</sub> , 99%)	1000



Catalog No.	Compound	Amount	Price(¥)
NEW! ES-5467-A	Expanded POPs Pesticides PAR Solution with Endosulfan Sulfate	1.2 mL in nonane	¥174,200
ES-5467	Expanded POPs Pesticides PAR Solution	1.2 mL in nonane	¥174,200

Unlabeled	ES-5467-A (ng/mL)	ES-5467 (ng/mL)
Hexachlorobenzene	1000	1000
Pentachlorobenzene	1000	1000
Aldrin	1000	1000
Dieldrin	1000	1000
Endrin	1000	1000
4,4'-DDT	1000	1000
4,4'-DDE	1000	1000
4,4'-DDD	1000	1000
2,4'-DDT	1000	1000
2,4'-DDE	1000	1000
2,4'-DDD	1000	1000
<i>trans</i> -Chlordane ( $\gamma$ )	1000	1000
<i>cis</i> -Chlordane ( $\alpha$ )	1000	1000
<i>trans</i> -Nonachlor	1000	1000
<i>cis</i> -Nonachlor	1000	1000
Oxychlordane	1000	1000
Heptachlor	1000	1000
<i>trans</i> -Heptachlor epoxide	1000	1000
<i>cis</i> -Heptachlor epoxide	1000	1000
Mirex	1000	1000
Kepone (chlordecone)	1000	1000
$\alpha$ -HCH ( $\alpha$ -BHC)	1000	1000
$\beta$ -HCH ( $\beta$ -BHC)	1000	1000
$\gamma$ -HCH ( $\gamma$ -BHC) (lindane)	1000	1000
$\delta$ -HCH ( $\delta$ -BHC)	1000	1000
Endosulfan I	1000	1000
Endosulfan II	1000	1000
Endosulfan sulfate	1000	-

PACs are organic compounds that can be found in natural or processed petroleum products; they are also formed during combustion of carbon-based material. The robust  $^{13}\text{C}$  PACs produced as part of CIL's collaboration with Cerilliant complement the deuterium-labeled PACs suitable for routine use. New ways to monitor PACs continue to be developed, and CIL's standards evolve with these new methods.





# Hydroxy Polycyclic Aromatic Hydrocarbon (PAH) Standard Mixtures

Catalog No.	Compound	Amount	Price(¥)
ES-5472	CDC OH-PAH Calibration Standards [CS1-CS10]	10 × 0.5 mL in toluene	¥1,106,600
ES-5472-CS1	CDC OH-PAH Calibration Standard [CS1]	0.5 mL in toluene	¥145,600
ES-5472-CS2	CDC OH-PAH Calibration Standard [CS2]	0.5 mL in toluene	¥145,600
ES-5472-CS3	CDC OH-PAH Calibration Standard [CS3]	0.5 mL in toluene	¥145,600
ES-5472-CS4	CDC OH-PAH Calibration Standard [CS4]	0.5 mL in toluene	¥145,600
ES-5472-CS5	CDC OH-PAH Calibration Standard [CS5]	0.5 mL in toluene	¥127,600
ES-5472-CS6	CDC OH-PAH Calibration Standard [CS6]	0.5 mL in toluene	¥127,600
ES-5472-CS7	CDC OH-PAH Calibration Standard [CS7]	0.5 mL in toluene	¥145,600
ES-5472-CS8	CDC OH-PAH Calibration Standard [CS8]	0.5 mL in toluene	¥145,600
ES-5472-CS9	CDC OH-PAH Calibration Standard [CS9]	0.5 mL in toluene	¥145,600
ES-5472-CS10	CDC OH-PAH Calibration Standard [CS10]	0.5 mL in toluene	¥145,600

All concentrations are in ng/mL

Unlabeled	IUPAC	CS1	CS2	CS3	CS4	CS5	CS6	CS7	CS8	CS9	CS10
1-Hydroxynaphthalene		4	8	20	40	200	400	2000	4000	8000	16,000
2-Hydroxynaphthalene		4	8	20	40	200	400	2000	4000	8000	16,000
2-Hydroxyfluorene		1	2	5	10	50	100	500	1000	-	-
3-Hydroxyfluorene		1	2	5	10	50	100	500	1000	-	-
9-Hydroxyfluorene		1	2	5	10	50	100	500	1000	-	-
1-Hydroxyphenanthrene		1	2	5	10	50	100	500	1000	-	-
2-Hydroxyphenanthrene		1	2	5	10	50	100	500	1000	-	-
3-Hydroxyphenanthrene		1	2	5	10	50	100	500	1000	-	-
4-Hydroxyphenanthrene		1	2	5	10	50	100	500	1000	-	-
1-Hydroxypyrene		1	2	5	10	50	100	500	1000	-	-
<b>Labeled</b>											
1-Hydroxynaphthalene ( <sup>13</sup> C <sub>6</sub> , 99%)		400	400	400	400	400	400	400	400	400	400
2-Hydroxynaphthalene ( <sup>13</sup> C <sub>6</sub> , 99%)		400	400	400	400	400	400	400	400	400	400
2-Hydroxyfluorene (random- <sup>13</sup> C <sub>6</sub> , 99%)		100	100	100	100	100	100	100	100	100	100
3-Hydroxyfluorene ( <sup>13</sup> C <sub>6</sub> , 98%)		100	100	100	100	100	100	100	100	100	100
9-Hydroxyfluorene ( <sup>13</sup> C <sub>6</sub> , 99%)		100	100	100	100	100	100	100	100	100	100
1-Hydroxyphenanthrene ( <sup>13</sup> C <sub>4</sub> , 99%)		100	100	100	100	100	100	100	100	100	100
2-Hydroxyphenanthrene ( <sup>13</sup> C <sub>6</sub> , 99%)		100	100	100	100	100	100	100	100	100	100
3-Hydroxyphenanthrene ( <sup>13</sup> C <sub>6</sub> , 99%)		100	100	100	100	100	100	100	100	100	100
4-Hydroxyphenanthrene ( <sup>13</sup> C <sub>4</sub> , 99%)		100	100	100	100	100	100	100	100	100	100
1-Hydroxypyrene ( <sup>13</sup> C <sub>6</sub> , 99%)		100	100	100	100	100	100	100	100	100	100
2,4,4'-TriCB ( <sup>13</sup> C <sub>12</sub> , 99%)	28	100	100	100	100	100	100	100	100	100	100
2,3,3',4,4'-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	105	100	100	100	100	100	100	100	100	100	100
2,2',4,4',5,5'-HexaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	153	100	100	100	100	100	100	100	100	100	100
2,3',4,4',5,5'-HexaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	167	100	100	100	100	100	100	100	100	100	100

Catalog No.	Compound	Amount	Price(¥)
<b>NEW!</b> ES-5473-T	CDC OH-PAH Spiking Standard	0.5 mL in toluene	¥504,200

Labeled	(ng/mL)
1-Hydroxynaphthalene ( <sup>13</sup> C <sub>6</sub> , 99%)	10,000
2-Hydroxynaphthalene ( <sup>13</sup> C <sub>6</sub> , 99%)	10,000
2-Hydroxyfluorene (random- <sup>13</sup> C <sub>6</sub> , 99%)	2500
3-Hydroxyfluorene ( <sup>13</sup> C <sub>6</sub> , 98%)	2500
9-Hydroxyfluorene ( <sup>13</sup> C <sub>6</sub> , 99%)	2500
1-Hydroxyphenanthrene ( <sup>13</sup> C <sub>4</sub> , 99%)	2500
2-Hydroxyphenanthrene ( <sup>13</sup> C <sub>6</sub> , 99%)	2500
3-Hydroxyphenanthrene ( <sup>13</sup> C <sub>6</sub> , 99%)	2500
4-Hydroxyphenanthrene ( <sup>13</sup> C <sub>4</sub> , 99%)	2500
1-Hydroxypyrene ( <sup>13</sup> C <sub>6</sub> , 99%)	2500

<b>NEW!</b> ES-5474	CDC PCB Recovery Standard for OH-PAHs	1.0 mL in toluene	¥57,600
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Labeled	IUPAC	(ng/mL)
2,4,4'-TriCB ( <sup>13</sup> C <sub>12</sub> , 99%)	28	200
2,3,3',4,4'-PentaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	105	200
2,2',4,4',5,5'-HexaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	153	200
2,3',4,4',5,5'-HexaCB ( <sup>13</sup> C <sub>12</sub> , 99%)	167	200

<b>NEW!</b> ES-5484	CDC OH-PAH Native PAR Standard	1.2 mL in toluene	¥310,400
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Unlabeled	(ng/mL)
1-Hydroxynaphthalene	4000
2-Hydroxynaphthalene	4000
2-Hydroxyfluorene	1000
3-Hydroxyfluorene	1000
9-Hydroxyfluorene	1000
1-Hydroxyphenanthrene	1000
2-Hydroxyphenanthrene	1000
3-Hydroxyphenanthrene	1000
4-Hydroxyphenanthrene	1000
1-Hydroxypyrene	1000

**III. ENVIRONMENTAL STANDARDS**

JECS (Japan Environment and Children's Study) Products	P111
Phthalate and Phthalate Metabolite Standards	P112
PCB Standards and Standard Mixtures & Priority Pollutant Standard Mixtures	P114
Perfluorinated Compound Standards	P116
Flame-Retardant Standards and Standard Mixtures & PCB Standards and Standard Mixtures	P118
Flame-Retardant Standards and Standard Mixtures	P120
Priority Pollutant, Endocrine Disruptor, and Chemical Contaminant Standards	P123
Priority Pollutant, Endocrine Disruptor, and Chemical Contaminant Standards & Flame-Retardant Standards and Standard Mixtures	P128
Polycyclic Aromatic Compound (PAC) Standards and Standard Mixtures	P137
Pesticide and Chemical Weapon Standards	P145
Cyanotoxins	P156



## JECS (Japan Environment and Children's Study) Products

Catalog No.	Compound	Description	Amount	Price (¥)	Formula
ES-5633	JECS PHTHALATE/PHTHALATE REPLACEMENT	METABOLITES NATIVE MIX	1.2 ML	¥212,000	NA
ES-5633-5X	JECS PHTHALATE/PHTHALATE REPLACEMENT	METABOLITES NATIVE MIX STOCK	1.2 ML	¥864,600	NA
ES-5535	JECS LABELED MIXTURE SOLUTION	IN WATER (ULTRAPURE)	1.2 ML	¥133,000	NA
ES-5536	JECS NATIVE MIXTURE SOLUTION	500 NG/ML IN WATER (ULTRAPURE)	1.2 ML	¥19,000	NA
ES-5620-A-CS0L	JECS PCB/POPS/PBDE CALIBRATION STANDARD CS0L	(UNLABELED/ <sup>13</sup> C, 99%) IN NONANE	0.25 ML	¥121,000	NA
ES-5620-A-CS1L	JECS PCB/POPS/PBDE CALIBRATION STANDARD CS1L	(UNLABELED/ <sup>13</sup> C, 99%) IN NONANE	0.25 ML	¥121,000	NA
ES-5620-A-CS2L	JECS PCB/POPS/PBDE CALIBRATION STANDARD CS2L	(UNLABELED/ <sup>13</sup> C, 99%) IN NONANE	0.25 ML	¥121,000	NA
ES-5620-A-CS3L	JECS PCB/POPS/PBDE CALIBRATION STANDARD CS3L	(UNLABELED/ <sup>13</sup> C, 99%) IN NONANE	0.25 ML	¥121,000	NA
ES-5620-A-CS4L	JECS PCB/POPS/PBDE CALIBRATION STANDARD CS4L	(UNLABELED/ <sup>13</sup> C, 99%) IN NONANE	0.25 ML	¥121,000	NA
ES-5620-A-CS5L	JECS PCB/POPS/PBDE CALIBRATION STANDARD CS5L	(UNLABELED/ <sup>13</sup> C, 99%) IN NONANE	0.25 ML	¥121,000	NA
ES-5620-A-CS6L	JECS PCB/POPS/PBDE CALIBRATION STANDARD CS6L	(UNLABELED/ <sup>13</sup> C, 99%) IN NONANE	0.25 ML	¥121,000	NA
ES-5620-A-CS7L	JECS PCB/POPS/PBDE CALIBRATION STANDARD CS7L	(UNLABELED/ <sup>13</sup> C, 99%) IN NONANE	0.25 ML	¥121,000	NA
ES-5620-A-CS8L	JECS PCB/POPS/PBDE CALIBRATION STANDARD CS8L	(UNLABELED/ <sup>13</sup> C, 99%) IN NONANE	0.25 ML	¥121,000	NA
ES-5620-A-CS9L	JECS PCB/POPS/PBDE CALIBRATION STANDARD CS9L	(UNLABELED/ <sup>13</sup> C, 99%) IN NONANE	0.25 ML	¥121,000	NA
ES-5620-A-L	JECS PCB/POPS/PBDE CALIBRATION STANDARDS CS0L-CS9L	(UNLABELED/ <sup>13</sup> C, 99%) IN NONANE	10X0.25 ML	¥644,000	NA
ES-5621	JECS PCB/POPS/PBDE CLEANUP SPIKE	( <sup>13</sup> C, 99%) IN METHANOL	1.2 ML	¥53,000	NA
ES-5621-10X1.2	JECS PCB/POPS/PBDE CLEANUP SPIKE	( <sup>13</sup> C, 99%) IN METHANOL	10 X 1.2ML	¥256,000	NA
ES-5622	JECS PCB/POPS/PBDE SYRINGE SPIKE	( <sup>13</sup> C <sub>12</sub> , 99%) IN NONANE	1.2 ML	¥23,000	NA
ES-5622-10X1.2	JECS PCB/POPS/PBDE SYRINGE SPIKE	( <sup>13</sup> C <sub>12</sub> , 99%) IN NONANE	10 X 1.2ML	¥109,000	NA
ES-5623-A	JECS PCB/POPS/PBDE NATIVE	UNLABELED IN NONANE	1.2 ML	¥109,000	NA
ES-5623-B	JECS PCB/POPS/PBDE NATIVE	UNLABELED IN METHANOL	1.2 ML	¥109,000	NA
ES-5628	JECS PHENOL/PARABEN NATIVE STANDARD	IN METHANOL	1.2 ML	¥166,000	NA
ES-5629	JECS PHENOL/PARABEN CLEAN-UP STANDARD	( <sup>13</sup> C, 99%; D, 98%) IN METHANOL	1.2 ML	¥476,000	NA
ES-5630	JECS PHENOL/PARABEN SYRINGE STANDARD	(D, 98%) IN METHANOL-OD	1.2 ML	¥182,000	NA
ES-5627	JECS NATIVE NEONICOTINOID MIXTURE	UNLABELED IN METHANOL	1.2 ML	¥29,000	NA
ES-5634	JECS NEONICOTINOID MIXTURE	( <sup>13</sup> C, 99%; D, 98%; <sup>15</sup> N, 98%; <sup>18</sup> O, 96%) IN METHANOL	1.2 ML	¥336,000	NA





























## Polycyclic Aromatic Compound (PAC) Standards and Standard Mixtures

Catalog No.	Compound	Description	Amount	Price (¥)	Formula
ECN-5260	1,2,3,4,5,7-HEXACN	(PCN-64) ( <sup>13</sup> C <sub>10</sub> , 99%) 10 UG/ML IN ISOCTANE	1.2 ML	¥182,000	*C10H2Cl6
ECN-5261-A	1,2,3,5,6,7-HEXACN	(PCN-67) ( <sup>13</sup> C <sub>10</sub> , 98%) 10 UG/ML IN ISOCTANE	1.2 ML	¥182,000	*C10H2Cl6
ECN-5267	1,2,3,4,5,8-HEXACN	(PCN-65) ( <sup>13</sup> C <sub>10</sub> , 99%) 10 UG/ML IN ISOCTANE	1.2 ML	¥182,000	*C10H2Cl6
ECN-5270-A	1,2,3,4,5,6,7-HEPTACN	(PCN-73) ( <sup>13</sup> C <sub>10</sub> , 98%) 10 UG/ML IN ISOCTANE	1.2 ML	¥182,000	*C10HCl7
ECN-5280	OCTACN	(PCN-75) ( <sup>13</sup> C <sub>10</sub> , 99%) 10 UG/ML IN ISOCTANE	1.2 ML	¥182,000	C10Cl8
ECN-5310	PCN SERUM SRM SPIKE SOLUTION	UNLABELED	1.2 ML	お問い合わせ	NA
ECN-5489	PCN CALIBRATION SOLUTIONS CS1 - CS7	(UNLABELED/ <sup>13</sup> C <sub>10</sub> , 99%) IN NONANE	7 X 0.5 ML	¥1,018,800	NA
ECN-5489-CS1	PCN CALIBRATION SOLUTION CS1	(UNLABELED/ <sup>13</sup> C <sub>10</sub> , 99%) IN NONANE	0.5 ML	¥173,400	NA
ECN-5489-CS2	PCN CALIBRATION SOLUTION CS2	(UNLABELED/ <sup>13</sup> C <sub>10</sub> , 99%) IN NONANE	0.5 ML	¥173,400	NA
ECN-5489-CS3	PCN CALIBRATION SOLUTION CS3	(UNLABELED/ <sup>13</sup> C <sub>10</sub> , 99%) IN NONANE	0.5 ML	¥173,400	NA
ECN-5489-CS4	PCN CALIBRATION SOLUTION CS4	(UNLABELED/ <sup>13</sup> C <sub>10</sub> , 99%) IN NONANE	0.5 ML	¥173,400	NA
ECN-5489-CS5	PCN CALIBRATION SOLUTION CS5	(UNLABELED/ <sup>13</sup> C <sub>10</sub> , 99%) IN NONANE	0.5 ML	¥173,400	NA
ECN-5489-CS6	PCN CALIBRATION SOLUTION CS6	(UNLABELED/ <sup>13</sup> C <sub>10</sub> , 99%) IN NONANE	0.5 ML	¥173,400	NA
ECN-5489-CS7	PCN CALIBRATION SOLUTION CS7	(UNLABELED/ <sup>13</sup> C <sub>10</sub> , 99%) IN NONANE	0.5 ML	¥173,400	NA
ECN-5490	PCN CLEANUP SOLUTION	( <sup>13</sup> C <sub>10</sub> , 99%) IN METHANOL:ISOCTANE	5 ML	¥55,600	NA
ECN-5490-5X5ML	PCN CLEANUP SOLUTION	( <sup>13</sup> C <sub>10</sub> , 99%) IN METHANOL:ISOCTANE	5 X 5 ML	¥218,800	NA
ECN-5497	PCN NATIVE PAR SOLUTION	UNLABELED 1000 NG/ML IN NONANE	1.2 ML	¥165,000	NA
ECN-5520	1,5-DICN	(PCN-6) ( <sup>13</sup> C <sub>10</sub> , 99%) 10 UG/ML IN ISOCTANE	1.2 ML	¥161,000	*C10H6Cl2
ECN-5558	MONO-OCTA PCN NATIVE MIXTURE	UNLABELED 1 UG/ML IN NONANE	1.2 ML	¥208,600	NA
ECN-5575	1,2,3-TRICN	(PCN-13) ( <sup>13</sup> C <sub>10</sub> , 99%) 10 UG/ML IN ISOCTANE	1.2 ML	¥169,000	*C10H5Cl3
ECN-5577	MONO-OCTA PCN CALIBRATION SOLUTIONS (CS1-CS5)	(UNLABELED/ <sup>13</sup> C <sub>10</sub> , 99%)	5 X 0.25ML	¥623,000	NA
ECN-5577-CS1	MONO-OCTA PCN CALIBRATION SOLUTION CS1	(UNLABELED/ <sup>13</sup> C <sub>10</sub> , 99%)	0.25 ML	¥133,000	NA
ECN-5577-CS2	MONO-OCTA PCN CALIBRATION SOLUTION CS2	(UNLABELED/ <sup>13</sup> C <sub>10</sub> , 99%)	0.25 ML	¥133,000	NA
ECN-5577-CS3	MONO-OCTA PCN CALIBRATION SOLUTION CS3	(UNLABELED/ <sup>13</sup> C <sub>10</sub> , 99%)	0.25 ML	¥133,000	NA
ECN-5577-CS4	MONO-OCTA PCN CALIBRATION SOLUTION CS4	(UNLABELED/ <sup>13</sup> C <sub>10</sub> , 99%)	0.25 ML	¥133,000	NA
ECN-5577-CS5	MONO-OCTA PCN CALIBRATION SOLUTION CS5	(UNLABELED/ <sup>13</sup> C <sub>10</sub> , 99%)	0.25 ML	¥133,000	NA
ECN-5577-CS6	MONO-OCTA PCN CALIBRATION SOLUTION CS6	(UNLABELED/ <sup>13</sup> C <sub>10</sub> , 99%)	0.25 ML	¥133,000	NA
ECN-5578	MONO-OCTA PCN CLEANUP SPIKE	( <sup>13</sup> C <sub>10</sub> , 99%) 1000 NG/ML IN ISOCTANE	1.2 ML	¥409,000	NA
ECN-5580	MONO-OCTA PCN NATIVE PAR SOLUTION	UNLABELED 2000 NG/ML IN NONANE	1.2 ML	¥284,000	NA
ECN-5580-1/1000	MONO-OCTA PCN NATIVE PAR SOLUTION	UNLABELED 2 NG/ML IN NONANE	1.2 ML	¥60,800	NA
ECN-5602	1,8-DICN	(PCN-9) ( <sup>13</sup> C <sub>10</sub> , 99%) 10 UG/ML IN ISOCTANE	1.2 ML	¥161,000	*C10H6Cl2
ECN-5603	MONO-OCTA PCN SAMPLING SPIKE	( <sup>13</sup> C <sub>10</sub> , 99%) 1000 NG/ML IN ISOCTANE	1.2 ML	¥136,600	NA

## Polycyclic Aromatic Compound (PAC) Standards and Standard Mixtures

Catalog No.	Compound	Description	Amount	Price (¥)	Formula
CLM-1332-1.2	NAPHTHALENE	( <sup>13</sup> C <sub>6</sub> , 99%) 100 UG/ML IN NONANE	1.2 ML	¥173,000	C4*C6H8
CLM-1364-1.2	BENZO[GHI]PERYLENE	( <sup>13</sup> C <sub>12</sub> , 99%) 100 UG/ML IN NONANE	1.2 ML	¥262,000	C10*C12H12
CLM-2451-1.2	PHENANTHRENE	( <sup>13</sup> C <sub>6</sub> , 99%) 100 UG/ML IN NONANE	1.2 ML	¥238,400	C8*C6H10
CLM-2722-1.2	BENZO[A]PYRENE	( <sup>13</sup> C <sub>4</sub> , 99%) 100 UG/ML IN NONANE	1.2 ML	¥404,000	C16*C4H12
CLM-3596-1.2	FLUORENE	( <sup>13</sup> C <sub>6</sub> , 99%) 100 UG/ML IN NONANE	1.2 ML	¥289,800	C7*C6H10
CLM-3597-1.2	FLUORANTHENE	( <sup>13</sup> C <sub>6</sub> , 99%) 100 UG/ML IN NONANE	1.2 ML	¥392,600	C10*C6H10
CLM-3598-1.2	DIBENZO[A,H]ANTHRACENE	( <sup>13</sup> C <sub>6</sub> , 99%) 100 UG/ML IN NONANE	1.2 ML	¥404,000	C16*C6H14
CLM-3599-1.2	BENZO[B]FLUORANTHENE	( <sup>13</sup> C <sub>6</sub> , 99%) 100 UG/ML IN NONANE	1.2 ML	¥278,200	C14*C6H12
CLM-3600-1.2	INDENO[1,2,3-CD]PYRENE	( <sup>13</sup> C <sub>6</sub> , 99%) 100 UG/ML IN NONANE	1.2 ML	¥289,800	C16*C6H12
CLM-3601-1.2	PYRENE	( <sup>13</sup> C <sub>3</sub> , 99%) 100 UG/ML IN NONANE	1.2 ML	¥364,200	C13*C3H10
CLM-3602-1.2	BENZO[A]ANTHRACENE	( <sup>13</sup> C <sub>6</sub> , 99%) 100 UG/ML IN NONANE	1.2 ML	¥364,200	C12*C6H12
CLM-3756-1.2	BENZO[K]FLUORANTHENE	( <sup>13</sup> C <sub>6</sub> , 99%) 100 UG/ML IN NONANE	1.2 ML	¥269,000	C14*C6H12
CLM-3757-1.2	CHRYSENE	( <sup>13</sup> C <sub>6</sub> , 99%) 100 UG/ML IN NONANE	1.2 ML	¥278,200	C12*C6H12
CLM-3835-1.2	DIBENZO[A,E]PYRENE	( <sup>13</sup> C <sub>6</sub> , 99%) 100 UG/ML IN NONANE	1.2 ML	¥283,000	C18*C6H14
ES-4087	US EPA 16 PAH COCKTAIL	( <sup>13</sup> C, 99%)	1.2 ML	¥538,000	NA





Polycyclic Aromatic Compound (PAC) Standards and Standard Mixtures

Catalog No.	Compound	Description	Amount	Price (¥)	Formula
DLM-365-1	NAPHTHALENE	(D <sub>8</sub> , 99%)	1 G	¥17,400	C10D8
DLM-365-1.2	NAPHTHALENE	(D <sub>8</sub> , 99%) 200 UG/ML IN ISOCTANE	1.2 ML	¥35,600	C10D8
DLM-365-10	NAPHTHALENE	(D <sub>8</sub> , 99%)	10 G	¥97,400	C10D8
DLM-365-5	NAPHTHALENE	(D <sub>8</sub> , 99%)	5 G	¥61,200	C10D8
DLM-366-0.1	PERYLENE	(D <sub>12</sub> , 98%)	0.1 G	¥46,000	C20D12
DLM-366-1	PERYLENE	(D <sub>12</sub> , 98%)	1 G	¥177,200	C20D12
DLM-366-1.2	PERYLENE	(D <sub>12</sub> , 98%) 200 UG/ML IN TOLUENE-D8	1.2 ML	¥35,600	C20D12
DLM-366-10	PERYLENE	(D <sub>12</sub> , 98%)	10 G	¥998,600	C20D12
DLM-371-0.1	PHENANTHRENE	(D <sub>10</sub> , 98%)	0.1 G	¥29,000	C14D10
DLM-371-1	PHENANTHRENE	(D <sub>10</sub> , 98%)	1 G	¥72,600	C14D10
DLM-371-1.2	PHENANTHRENE	(D <sub>10</sub> , 98%) 200 UG/ML IN ISOCTANE	1.2 ML	¥35,600	C14D10
DLM-371-5	PHENANTHRENE	(D <sub>10</sub> , 98%)	5 G	¥281,000	C14D10
DLM-3740-1.2	DIBENZO[A,I]PYRENE	(D <sub>14</sub> , 98%) 200 UG/ML IN TOLUENE-D8	1.2 ML	¥71,000	C24D14
DLM-382-1	P-TERPHENYL	(D <sub>14</sub> , 98%)	1 G	¥64,800	C6D4(C6D5)2
DLM-382-1.2	P-TERPHENYL	(D <sub>14</sub> , 98%) 200 UG/ML IN ISOCTANE	1.2 ML	¥47,400	C6D4(C6D5)2
DLM-382-5	P-TERPHENYL	(D <sub>14</sub> , 98%)	5 G	¥260,600	C6D4(C6D5)2
DLM-3836-1.2	5-NITROACENAPHTHENE	(D <sub>9</sub> , 98%) 50 UG/ML IN TOLUENE-D8	1.2 ML	¥114,600	C12D9N02
DLM-3837-1.2	2-NITROFLUORENE	(D <sub>9</sub> , 98%) 50 UG/ML IN TOLUENE-D8	1.2 ML	¥122,800	C13D9N02
DLM-3839-1.2	6-NITROCHRYSENE 95% CHEMICAL PURITY	(D <sub>11</sub> , 98%) 50 UG/ML IN TOLUENE-D8	1.2 ML	¥122,800	C18D11N02
DLM-3841-1.2	7H-DIBENZO[C,G]CARBAZOLE	(D <sub>12</sub> , 98%) 50 UG/ML IN TOLUENE	1.2 ML	¥136,600	C20HD12N
DLM-3842-1.2	5-METHYLCHRYSENE (CP 95%)	(METHYL-D <sub>3</sub> , 98%) 50 UG/ML IN TOLUENE-D8	1.2 ML	¥122,800	C19H11D3
DLM-3843-1.2	DIBENZO[A,J]ACRIDINE	(D <sub>13</sub> , 97%) 50 UG/ML IN TOLUENE-D8	1.2 ML	¥122,800	C21D13N
DLM-3875-10	NAPHTHALENE	(D <sub>8</sub> , 99.5%)	10 G	¥107,000	C10D8
DLM-3875-1000	NAPHTHALENE	(D <sub>8</sub> , 99.5%)	1000 G	お問い合わせ	C10D8
DLM-4308-1.2	BENZO[B]NAPHTHO[2,1-D]-THIOPHENE	(D <sub>10</sub> , 95%) 100 UG/ML IN BENZENE-D6	1.2 ML	¥160,000	C16D10S
DLM-450-1	O-TERPHENYL	(D <sub>14</sub> , 98%)	1 G	¥71,000	C6D4(C6D5)2
DLM-450-5	O-TERPHENYL	(D <sub>14</sub> , 98%)	5 G	¥230,400	C6D4(C6D5)2
DLM-4711-1.2	3-NITROFLUORANTHENE (CHEM PURITY 87%)	(D <sub>9</sub> , 98%) 50 UG/ML IN TOLUENE-D8	1.2 ML	¥109,400	C16D9N02
DLM-4712-1.2	9-NITROANTHRACENE	(D <sub>9</sub> , 98%) 50 UG/ML IN TOLUENE	1.2 ML	¥119,600	C14D9N02
DLM-601-0.1	TRIPHENYLENE	(D <sub>12</sub> , 98%)	0.1 G	¥44,200	C18D12
DLM-601-1	TRIPHENYLENE	(D <sub>12</sub> , 98%)	1 G	¥137,400	C18D12
DLM-610-0.1	BENZO[A]ANTHRACENE	(D <sub>12</sub> , 98%)	0.1 G	¥63,000	C18D12
DLM-610-1.2	BENZO[A]ANTHRACENE	(D <sub>12</sub> , 98%) 200 UG/ML IN ISOCTANE	1.2 ML	¥35,600	C18D12
DLM-6569-0.1	1,6-ANHYDRO-BETA-D-GLUCOSE (LEVOGLUCOSAN)	(D <sub>7</sub> , 98%)	0.1 G	¥252,400	C6H3D7O5
DLM-677-0.01	DIBENZO[A,H]ANTHRACENE	(D <sub>14</sub> , 98%)	0.01 G	¥80,400	C22D14
DLM-677-0.1	DIBENZO[A,H]ANTHRACENE	(D <sub>14</sub> , 98%)	0.1 G	¥310,800	C22D14
DLM-677-0.5	DIBENZO[A,H]ANTHRACENE	(D <sub>14</sub> , 98%)	0.5 G	¥1,151,000	C22D14
DLM-677-1.2	DIBENZO[A,H]ANTHRACENE	(D <sub>14</sub> , 98%) 200 UG/ML IN TOLUENE-D8	1.2 ML	¥35,600	NA
DLM-8020-1.2	DIBENZO[A,C]ANTHRACENE	(D <sub>14</sub> , 98%) 200 UG/ML IN TOLUENE-D8	1.2 ML	¥80,400	C22D14
DLM-849-0.1	ACRIDINE	(D <sub>9</sub> , 98%)	0.1 G	¥95,600	C13ND9
DLM-849-0.5	ACRIDINE	(D <sub>9</sub> , 98%)	0.5 G	¥164,000	C13ND9
DLM-849-1	ACRIDINE	(D <sub>9</sub> , 98%)	1 G	¥269,000	C13ND9
ES-2043	"EEC SIX" PAH COCKTAIL	(D, 98%)	1 ML	¥321,200	NA
ES-2044	PAH SURROGATE	COCKTAIL 200 UG/ML IN CD2CL2/CH3OD (50:50)	1 ML	¥136,600	NA
ES-2528	PAH COCKTAIL FOR CARB METHOD 429	(D, 98%)	1 ML	¥446,800	NA
ES-5164	PAH SURROGATES STANDARD MIXTURE (D, 98%)	200 UG/ML IN 90% TOLUENE/10% ISOCTANE	10 ML	¥1,106,600	NA
ES-5164-1.2	PAH SURROGATES STANDARD MIXTURE (D, 98%)	200 UG/ML IN 90% TOLUENE/10% ISOCTANE	1.2 ML	¥271,000	NA
ES-5437	PAH COCKTAIL FOR CARB METHOD 429	UNLABELED STANDARD	1.2 ML	¥59,200	NA
ES-5438	PAH NATIVE STANDARD MIXTURE	UNLABELED 200 UG/ML IN 90% TOLUENE/10% ISOCTANE	1.2 ML	¥75,600	NA
ES-5481	PAH MIXTURE	(D, 98%) 2500 UG/ML IN TOLUENE	5 ML	¥380,200	NA
ES-5481-5X5	PAH MIXTURE	(D, 98%) 2500 UG/ML IN TOLUENE	5 X 5 ML	¥1,513,600	NA
ES-5484	CDC OH-PAH NATIVE PAR STANDARD	UNLABELED IN TOLUENE	1.2 ML	¥310,400	NA
ES-5498	PAH TWO COMPONENT MIXTURE	(D, 98%) 2000 UG/ML IN 80% ISOCTANE/20% TOLUENE	1.2 ML	¥154,400	NA
ES-5541	EFSA-8 NATIVE PAH STANDARD MIXTURE	UNLABELED IN ISOCTANE	1.2 ML	¥75,600	NA

Polycyclic Aromatic Compound (PAC) Standards and Standard Mixtures

Catalog No.	Compound	Description	Amount	Price (¥)	Formula
ES-5542	EFSA-4 NATIVE PAH STANDARD MIXTURE	UNLABELED IN ISOCTANE	1.2 ML	¥50,600	NA
ES-5549	CUSTOM 16 PAH NATIVE MIXTURE	UNLABELED IN NONANE	1.2 ML	¥59,200	NA
ES-5637	DEUTERATED KOVATS-LEE RETENTION INDEX MIX	100 UG/ML IN METHYLENE CHLORIDE-D2	1.2 ML	¥262,000	NA
ES-5638	NATIVE KOVATS-LEE RETENTION INDEX MIX	100 UG/ML IN METHYLENE CHLORIDE	1.2 ML	¥74,000	NA
ES-9463	PAH INJECTION STANDARD	(D, 98%) 10 NG/ML IN ISOCTANE	10 ML	¥88,200	NA
ES-9464	PAH RECOVERY STANDARD	(D, 98%) 10 NG/ML IN ISOCTANE:TOLUENE-D8	10 ML	¥88,200	NA
ULM-11240-1.2	1-METHYLNAPHTHALENE	UNLABELED 200 UG/ML IN ISOCTANE	1.2 ML	¥27,200	C10H7CH3
ULM-1226-0.01	DIBENZO[A,E]PYRENE	UNLABELED	0.01 G	¥114,400	C24H14
ULM-1226-1.2	DIBENZO[A,E]PYRENE	UNLABELED 100 UG/ML IN NONANE	1.2 ML	¥40,400	C24H14
ULM-1227-0.01	DIBENZO[A,H]PYRENE	UNLABELED	0.01 G	¥154,800	C24H14
ULM-1227-T-1.2	DIBENZO[A,H]PYRENE	UNLABELED 100 UG/ML IN TOLUENE	1.2 ML	¥40,400	C24H14
ULM-1253-1.2	DIBENZO[A,L]PYRENE	UNLABELED 200 UG/ML IN TOLUENE	1.2 ML	¥35,600	C24H14
ULM-1253-25	DIBENZO[A,L]PYRENE	UNLABELED	25 MG	¥80,400	C24H14
ULM-2411-1.2	BENZO[J]FLUORANTHENE	UNLABELED 100 UG/ML IN NONANE	1.2 ML	¥27,200	C20H12
ULM-2411-25	BENZO[J]FLUORANTHENE	UNLABELED	25 MG	¥124,000	C20H12
ULM-2412-0.1	BENZO[A]PYRENE	UNLABELED	0.1 G	¥63,000	C20H12
ULM-2412-I-1.2	BENZO[A]PYRENE	UNLABELED 200 UG/ML IN ISOCTANE	1.2 ML	¥18,800	C20H12
ULM-2412-MC-1.2	BENZO[A]PYRENE	UNLABELED 1MG/ML IN METHYLENE CHLORIDE	1.2 ML	¥71,000	C20H12
ULM-2415-0.1	BENZO[A]ANTHRACENE	UNLABELED	0.1 G	¥40,400	C18H12
ULM-2415-I-1.2	BENZO[A]ANTHRACENE	UNLABELED 200 UG/ML IN ISOCTANE	1.2 ML	¥18,800	C18H12
ULM-2416-0.1	BENZO[B]FLUORANTHENE	UNLABELED	0.1 G	¥51,800	C20H12
ULM-2416-I-1.2	BENZO[B]FLUORANTHENE	UNLABELED 200 UG/ML IN ISOCTANE	1.2 ML	¥27,200	C20H12
ULM-2417-0.1	BENZO[K]FLUORANTHENE	UNLABELED	0.1 G	¥72,600	C20H12
ULM-2417-I-1.2	BENZO[K]FLUORANTHENE	UNLABELED 200 UG/ML IN ISOCTANE	1.2 ML	¥27,200	C20H12
ULM-2418-0.1	BENZO[GHI]PERYLENE	UNLABELED	0.1 G	¥87,800	C22H12
ULM-2418-1.2	BENZO[GHI]PERYLENE	UNLABELED 200 UG/ML IN TOLUENE	1.2 ML	¥18,800	C22H12
ULM-2418-25	BENZO[GHI]PERYLENE	UNLABELED	25 MG	¥30,800	C22H12
ULM-2422-0.1	DIBENZO[A,H]ANTHRACENE	UNLABELED	0.1 G	¥63,000	C22H14
ULM-2422-T-1.2	DIBENZO[A,H]ANTHRACENE	UNLABELED 200 UG/ML IN TOLUENE	1.2 ML	¥27,200	C22H14
ULM-2423-1.2	DIBENZO[A,I]PYRENE	UNLABELED 200 UG/ML IN TOLUENE	1.2 ML	¥35,600	C22H14
ULM-2423-A-1.2	DIBENZO[A,I]PYRENE	UNLABELED 50 UG/ML IN NONANE	1.2 ML	¥35,600	C24H14
ULM-2426-25	INDENO[1,2,3-CD]PYRENE	UNLABELED	25 MG	¥72,600	C22H12
ULM-2426-I-1.2	INDENO[1,2,3-CD]PYRENE	UNLABELED 200 UG/ML IN ISOCTANE	1.2 ML	¥27,200	C22H12
ULM-3881-1.2	6-NITROCHRYSENE	UNLABELED 50 UG/ML IN TOLUENE	1.2 ML	¥27,200	C18H11N02
ULM-3883-1.2	2-NITROFLUORENE	UNLABELED 50 UG/ML IN TOLUENE	1.2 ML	¥27,200	C13H9N02
ULM-3884-1.2	DIBENZO[A,J]ACRIDINE	UNLABELED 50 UG/ML IN TOLUENE	1.2 ML	¥27,200	C21H13N
ULM-3884-25	DIBENZO[A,J]ACRIDINE	UNLABELED	25 MG	¥133,600	C21H13N
ULM-3885-1.2	7H-DIBENZO[C,G]CARBAZOLE	UNLABELED 50 UG/ML IN TOLUENE	1.2 ML	¥47,400	C20H13N
ULM-3978-1.2	1-NITROPYRENE	UNLABELED 50 UG/ML IN TOLUENE	1.2 ML	¥27,200	C16H9N02
ULM-6181-1.2	1,8-DIMETHYLNAPHTHALENE	UNLABELED 50 UG/ML IN TOLUENE	1.2 ML	¥35,600	C12H12
ULM-6182-1.2	1,6-DIMETHYLNAPHTHALENE	UNLABELED 50 UG/ML IN TOLUENE	1.2 ML	¥35,600	C12H12
ULM-6234-1.2	9,10-DIMETHYLANTHRACENE	UNLABELED 50 UG/ML IN TOLUENE	1.2 ML	¥35,600	C16H14
ULM-6235-1.2	5-METHYLCHRYSENE	UNLABELED 50 UG/ML IN TOLUENE	1.2 ML	¥35,600	C19H14
ULM-6576-1.2	CORONENE	UNLABELED 200 UG/ML IN BENZENE	1.2 ML	¥27,200	C24H12
ULM-6600-1.2	3-NITROFLUORANTHENE	UNLABELED 50 UG/ML IN TOLUENE	1.2 ML	¥32,000	C16H9N02
ULM-6891-1.2	CYCLOPENTA[CD]PYRENE	UNLABELED 100 UG/ML IN NONANE	1.2 ML	¥35,600	C18H10
ULM-7271-1.2	2,6-DIMETHYLNAPHTHALENE	UNLABELED 50 UG/ML IN TOLUENE	1.2 ML	¥35,600	C12H12
ULM-7412-1.2	ANTHRACENE	UNLABELED STANDARD 200 UG/ML IN ISOCTANE	1.2 ML	¥27,200	C14H10
ULM-7413-1.2	ACENAPHTHENE	UNLABELED STANDARD 200 UG/ML IN ISOCTANE	1.2 ML	¥27,200	C12H10
ULM-7414-1.2	FLUORENE	UNLABELED STANDARD 200 UG/ML IN ISOCTANE	1.2 ML	¥27,200	C13H10
ULM-7416-1.2	2-METHYLNAPHTHALENE	UNLABELED 200 UG/ML IN ISOCTANE	1.2 ML	¥27,200	C11H10
ULM-7417-1.2	PYRENE	UNLABELED STANDARD 200 UG/ML IN ISOCTANE	1.2 ML	¥27,200	C16H10
ULM-7421-1.2	FLUORANTHENE	UNLABELED 200 UG/ML IN ISOCTANE	1.2 ML	¥27,200	C16H10
ULM-7422-1.2	ACENAPHTHYLENE	UNLABELED STANDARD 200 UG/ML IN ISOCTANE	1.2 ML	¥27,200	C12H8









## Pesticide and Chemical Weapon Standards

Catalog No.	Compound	Description	Amount	Price (€)	Formula
ULM-7419-1.2	CARBOFURAN	UNLABELED 100 UG/ML IN 1,4-DIOXANE	1.2 ML	¥35,400	C12H15NO3
ULM-7432-1.2	2-ISOPROPYL-6-METHYL-4-PYRIMIDINOL	UNLABELED 100 UG/ML IN ACETONITRILE	1.2 ML	¥70,200	C8H12N2O
ULM-7440-1.2	METHOXYCHLOR	UNLABELED 100 UG/ML IN NONANE	1.2 ML	¥35,400	(CH3OC6H4)2CHCCl3
ULM-7441-1.2	ALDRIN	UNLABELED 100 UG/ML IN NONANE	1.2 ML	¥35,400	C12H8Cl6
ULM-7442-1.2	ISODRIN	UNLABELED 100 UG/ML IN NONANE	1.2 ML	¥35,400	C12H8Cl6
ULM-7443-1.2	CHLORDENE	UNLABELED 100 UG/ML IN NONANE	1.2 ML	¥35,400	C10H6Cl6
ULM-7444-1.2	ENDRIN	UNLABELED 100 UG/ML IN NONANE	1.2 ML	¥35,400	C12H8Cl6O
ULM-7445-1.2	CIS-NONACHLOR	UNLABELED 100 UG/ML IN NONANE	1.2 ML	¥35,400	C10H5Cl9
ULM-7447-1.2	ENDOSULFAN I	UNLABELED 100 UG/ML IN NONANE	1.2 ML	¥35,400	C9H6Cl6O3S
ULM-7448-1.2	ENDOSULFAN II	UNLABELED 100 UG/ML IN NONANE	1.2 ML	¥35,400	C9H6Cl6O3S
ULM-7450-1.2	2,4'-DDD	UNLABELED 50 UG/ML IN NONANE	1.2 ML	¥35,400	C14H10Cl4
ULM-7453-1.2	CYPERMETHRIN, (MIX OF STEREOISOMERS)	UNLABELED 100 UG/ML IN NONANE (CP 97%)	1.2 ML	¥18,800	C22H19Cl2NO3
ULM-7454-1.2	CYFLUTHRIN, (MIX OF STEREOISOMERS)	UNLABELED 100 UG/ML IN NONANE	1.2 ML	¥23,600	C22H18Cl2FNO3
ULM-7489-1.2	CHLORPYRIFOS	UNLABELED 100 UG/ML IN NONANE	1.2 ML	¥35,400	C9H11Cl3NO3PS
ULM-7525-1.2	2,4,5-TRICHLOROPHENOL	UNLABELED 100 UG/ML IN METHANOL	1.2 ML	¥35,400	C6H3Cl3O
ULM-7525-SI-1.2	2,4,5-TRICHLOROPHENOL	UNLABELED 100 UG/ML IN ISOCTANE	1.2 ML	¥35,400	C6H3Cl3O
ULM-7567-1.2	PHORATE	UNLABELED 100 UG/ML IN ACETONITRILE	1.2 ML	¥35,400	C7H17O2PS3
ULM-7597-1.2	PENTACHLORONITROBENZENE	UNLABELED 100 UG/ML IN NONANE	1.2 ML	¥26,800	C6Cl5NO2
ULM-7605-1.2	PENTACHLOROANISOLE	UNLABELED 100 UG/ML IN TOLUENE	1.2 ML	¥35,400	C7H3Cl5O
ULM-7828-1.2	PARLAR 26	UNLABELED 10 UG/ML IN NONANE	1.2 ML	¥91,800	C10H10Cl8
ULM-7829-1.2	PARLAR 50	UNLABELED 10 UG/ML IN NONANE	1.2 ML	¥91,800	C10H9Cl9
ULM-7830-1.2	PARLAR 62	UNLABELED 10 UG/ML IN NONANE	1.2 ML	¥91,800	C10H9Cl9
ULM-7869-1.2	TRANS-HEPTACHLOR EPOXIDE	UNLABELED 100 UG/ML IN NONANE	1.2 ML	¥35,400	C10H5Cl7O
ULM-7893-1.2	SIMAZINE	UNLABELED 100 UG/ML IN METHANOL	1.2 ML	¥35,400	C7H12ClN5
ULM-7893-A-1.2	SIMAZINE	UNLABELED 100 UG/ML IN ACETONITRILE	1.2 ML	¥35,400	C7H12ClN5
ULM-7972-1.2	DIMETHOATE	UNLABELED 100 UG/ML IN ACETONITRILE	1.2 ML	¥35,400	C5H12NO3PS2
ULM-7975-1.2	N,N-DIETHYL-M-TOLUAMIDE (DEET)	UNLABELED 100 UG/ML IN CH2CL2	1.2 ML	¥35,400	CH3C6H4CON(CH2CH3)2
ULM-7975-D-1.2	N,N-DIETHYL-M-TOLUAMIDE (DEET)	UNLABELED 100 UG/ML IN DIOXANE	1.2 ML	¥35,400	CH3C6H4CON(CH2CH3)2
ULM-7990-1.2	ENDOSULFAN SULFATE	UNLABELED 100 UG/ML IN NONANE	1.2 ML	¥46,800	C9H6Cl6O4S
ULM-8001-1.2	DESETHYLDESISOPROPYLATRAZINE	UNLABELED 100 UG/ML IN CH3CN	1.2 ML	¥46,800	C3H4ClN5
ULM-8096-1.2	CARBARYL	UNLABELED 100 UG/ML IN NONANE	1.2 ML	¥35,400	C10H7OCONHCH3
ULM-8122-1.2	MALATHION	UNLABELED 100 UG/ML IN NONANE	1.2 ML	¥35,400	C10H19O6PS2
ULM-8144-1.2	PARATHION	UNLABELED 100 UG/ML IN NONANE	1.2 ML	¥35,400	NO2(C6H4)OP(=S)(OC2H5)2
ULM-8304-1.2	PROPAZINE	UNLABELED 100 UG/ML IN METHANOL	1.2 ML	¥35,400	C9H16ClN5
ULM-8317-1.2	HYDROXYATRAZINE	UNLABELED 100 UG/ML IN 80% H2O/ 20% DIETHYLAMINE	1.2 ML	¥46,800	C8H15N5O
ULM-8319-1.2	DESISOPROPYLATRAZINE	UNLABELED 100 UG/ML IN ACETONITRILE	1.2 ML	¥46,800	C5H8ClN5
ULM-8320-1.2	DESETHYLATRAZINE	UNLABELED 100 UG/ML IN ACETONITRILE	1.2 ML	¥46,800	C6H10ClN5
ULM-8321-1.2	DESISOPROPYLHYDROXYATRAZINE 97% CP	UNL 100UG/ML IN 80% H2O/20% DIETHYLAMINE	1.2 ML	¥46,800	C5H9N5O
ULM-8322-1.2	DESETHYLHYDROXYATRAZINE	UNLABELED 100 UG/ML IN 80% H2O/ 20% DIETHYLAMINE	1.2 ML	¥46,800	C6H11N5O
ULM-8323-1.2	DESETHYLDESISOPROPYLHYDROXYATRAZINE(AMMELINE)94%CP	UNLABELED 100 UG/ML IN 80% H2O/ 20% DIETHYLAMINE	1.2 ML	¥46,800	C3H5N5O
ULM-8371-1.2	THIABENDAZOLE	UNLABELED 100 UG/ML IN ACETONITRILE	1.2 ML	¥35,400	C10H7N3S
ULM-8454-1.2	PHOSMET	UNLABELED 100 UG/ML IN ACETONITRILE	1.2 ML	¥35,400	C11H12NO4PS2
ULM-8513-1.2	IMIDACLOPRID	UNLABELED 100 UG/ML IN METHANOL	1.2 ML	¥35,400	C9H10ClN5O2
ULM-8526-1.2	CIS-PERMETHRIN	UNLABELED 50 UG/ML IN NONANE	1.2 ML	¥26,800	C21H20Cl2O3
ULM-8527-1.2	TRANS-PERMETHRIN	UNLABELED 50 UG/ML IN NONANE	1.2 ML	¥26,800	C21H20Cl2O3
ULM-8579-1.2	OXYDEMETON-METHYL (95% CHEMICAL PURITY)	UNLABELED 100 UG/ML IN ACETONITRILE	1.2 ML	¥35,400	C6H15O4PS2
ULM-8639-1.2	METHOMYL	UNLABELED 100 UG/ML IN METHANOL	1.2 ML	¥35,400	C5H10N2O2S
ULM-8665-1.2	PARLAR 32	UNLABELED 10 UG/ML IN NONANE	1.2 ML	¥91,800	C10H11Cl7
ULM-8767-1.2	PARLAR 39	UNLABELED 10 UG/ML IN NONANE	1.2 ML	¥91,800	C10H10Cl8
ULM-8768-1.2	PARLAR 69	UNLABELED 10 UG/ML IN NONANE	1.2 ML	¥91,800	C10H8Cl10
ULM-8769-1.2	PARLAR 70	UNLABELED (95% CP) 10 UG/ML IN NONANE	1.2 ML	¥91,800	C10H8Cl10
ULM-8872-1.2	METHAMIDOPHOS	UNLABELED 100 UG/ML IN DIOXANE	1.2 ML	¥35,400	C2H8NO2PS
ULM-8956-1.2	ENDRIN KETONE	UNLABELED 100 UG/ML IN NONANE	1.2 ML	¥35,400	C12H8Cl6O
ULM-8956-50	ENDRIN KETONE	UNLABELED	50 UG	¥26,800	C12H8Cl6O

## Pesticide and Chemical Weapon Standards

Catalog No.	Compound	Description	Amount	Price (€)	Formula
ULM-8958-1.2	ENDRIN ALDEHYDE	UNLABELED 100 UG/ML IN NONANE	1.2 ML	¥35,400	C12H8Cl6O
ULM-8958-50	ENDRIN ALDEHYDE	UNLABELED	50 UG	¥26,800	C12H8Cl6O
ULM-9005-1.2	PARLAR 38	UNLABELED 10 UG/ML IN NONANE	1.2 ML	¥91,800	C10H10Cl8
ULM-9073-MT-1.2	MALATHION DIACID	UNLABELED 100 UG/ML IN MTBE	1.2 ML	¥33,400	C6H11O6PS2
ULM-9175-1.2	TRANS-DCCA	UNLABELED 100 UG/ML IN ACETONITRILE	1.2 ML	¥70,200	C8H10Cl2O2
ULM-9175-MT-1.2	TRANS-DCCA	UNLABELED 100 UG/ML IN MTBE	1.2 ML	¥70,200	C8H10Cl2O2
ULM-9176-1.2	CIS-DCCA	UNLABELED 100 UG/ML IN ACETONITRILE	1.2 ML	¥70,200	C8H10Cl2O2
ULM-9176-MT-1.2	CIS-DCCA	UNLABELED 100 UG/ML IN MTBE	1.2 ML	¥70,200	C8H10Cl2O2
ULM-9204-1.2	3,5,6-TRICHLORO-2-PYRIDINOL (TCPY)	UNLABELED 100 UG/ML IN ACETONITRILE	1.2 ML	¥46,800	C5H2Cl3NO
ULM-9399-1.2	AZINPHOS-METHYL	UNLABELED 100 UG/ML IN NONANE	1.2 ML	¥35,400	C10H12N3O3PS2
ULM-9428-1.2	HX-SED	UNLABELED 10 UG/ML IN NONANE	1.2 ML	¥91,800	C10H12Cl6
ULM-9429-1.2	HP-SED	UNLABELED 10 UG/ML IN NONANE	1.2 ML	¥91,800	C10H11Cl7
ULM-9430-1.2	PARLAR 40	UNLABELED 10 UG/ML IN NONANE	1.2 ML	¥91,800	C10H10Cl8
ULM-9431-1.2	PARLAR 41	UNLABELED 10 UG/ML IN NONANE	1.2 ML	¥91,800	C10H10Cl8
ULM-9432-1.2	PARLAR 44	UNLABELED 10 UG/ML IN NONANE	1.2 ML	¥91,800	C10H10Cl8
ULM-9538-1.2	CHLORPYRIFOS-METHYL	UNLABELED 100 UG/ML IN NONANE	1.2 ML	¥35,400	C7H7Cl3NO3PS
ULM-9604-1.2	6-CHLORONICOTINIC ACID	UNLABELED 100 UG/ML IN MTBE	1.2 ML	¥35,400	C6H4ClNO2
ULM-9635-MT-1.2	FIPRONIL (97% CP)	UNLABELED 100 UG/ML IN MTBE	1.2 ML	¥35,400	C12H4Cl2F6N4OS
ULM-9642-1.2	FIPRONIL SULFONE	UNLABELED 100 UG/ML IN METHANOL	1.2 ML	¥35,400	C12H4Cl2F6N4O2S
ULM-9644-1.2	FIPRONIL SULFIDE	UNLABELED 100 UG/ML IN METHANOL	1.2 ML	¥35,400	C12H4Cl2F6N4S
ULM-9646-1.2	FIPRONIL DESULFINYL	UNLABELED 100 UG/ML IN METHANOL	1.2 ML	¥35,400	C12H4Cl2F6N4
ULM-9649-1.2	FIPRONIL DETRIFLUOROMETHYL SULFINYL	(UNLABELED)100 UG/ML IN METHANOL	1.2 ML	¥35,400	C11H5Cl2F3N4
ULM-9674-1.2	SODIUM MONOFLUOROACETATE	UNLABELED 1 MG/ML IN WATER	1.2 ML	¥35,400	FCH2COONa
ULM-9691-1.2	3-TETRAHYDROFUROIC ACID	UNLABELED 100 UG/ML IN MTBE	1.2 ML	¥35,400	C5H8O3
ULM-9732-1.2	DINOTEFURAN	UNLABELED 100 UG/ML IN METHANOL	1.2 ML	¥35,400	C7H14N4O3
ULM-9733-1.2	THIACLOPRID	UNLABELED 100 UG/ML IN METHANOL	1.2 ML	¥35,400	C10H9ClN4S
ULM-9734-1.2	ACETAMIPRID	UNLABELED 100 UG/ML IN METHANOL	1.2 ML	¥35,400	C10H11ClN4
ULM-9765-1.2	PROPOXUR	UNLABELED 100 UG/ML IN NONANE	1.2 ML	¥35,400	C11H15NO3
ULM-9819-1.2	DALAPON	UNLABELED 100 UG/ML IN ACETONITRILE	1.2 ML	¥35,400	CH3CCl2COOH
ULM-9823-1.2	ALDICARB	UNLABELED 100 UG/ML IN ACETONITRILE	1.2 ML	¥35,400	NA
ULM-9824-1.2	ACETOCHLOR	UNLABELED 100 UG/ML IN ACETONITRILE	1.2 ML	¥35,400	C14H20ClNO2
ULM-9825-1.2	CHLORTOLURON	UNLABELED 100 UG/ML IN ACETONITRILE	1.2 ML	¥35,400	NA
ULM-9870-1.2	SULFOXAFLOR (MIXTURE OF GEOMETRIC ISOMERS)	UNLABELED 100 UG/ML IN METHANOL	1.2 ML	¥35,400	C10H10F3N3O3S
ULM-9910-A-1.2	3,6-DICHLOROSALICYLIC ACID (DCSA)	UNLABELED 100 UG/ML IN ACETONITRILE	1.2 ML	¥35,400	HOC12C6H2COOH
ULM-9911-1.2	DICAMBA	UNLABELED 100 UG/ML IN METHANOL	1.2 ML	¥35,400	C8H6Cl2O3
ULM-9912-1.2	5-HYDROXYDICAMBA (2-METHOXY-3,6-DICHLORO-5-HYDROXYBENZOIC ACID)	UNLABELED 100 UG/ML IN METHANOL	1.2 ML	¥46,800	C8H6Cl2O4
ULM-9913-1.2	3,6-DICHLOROGENTISIC ACID (DCGA)	UNLABELED 100 UG/ML IN METHANOL	1.2 ML	¥46,800	C7H4O4Cl2
ULM-9939-1.2	THIAMETHOXAM	UNLABELED 100 UG/ML IN METHANOL	1.2 ML	¥35,400	C8H10ClN5O3S
ULM-9941-1.2	CLOTHIANIDIN	UNLABELED 100 UG/ML IN METHANOL	1.2 ML	¥35,400	C6H8ClN5O2S
ULM-9991-1.2	TETRACHLORVINPHOS (TCPV)	UNLABELED 100 UG/ML IN ACETONITRILE	1.2 ML	¥45,200	C10H9Cl4O4P

## Pesticide and Chemical Weapon Standards

Catalog No.	Compound	Description	Amount	Price (¥)	Formula
CDLM-6100-1.2	METHYLPHOSPHONIC ACID	( <sup>13</sup> C, 99%; METHYL-D <sub>3</sub> , 98%) 100 UG/ML IN METHANOL	1.2 ML	¥191,000	*CD3P(O)(OH)2
CDNLM-6786-1.2	AMINOMETHYLPHOSPHONIC ACID (AMPA)	( <sup>13</sup> C, 99%; <sup>15</sup> N, 98%; METHYLENE-D <sub>2</sub> , 98%) 100 UG/ML H2O	1.2 ML	¥194,000	*CH4D2*NO3P
CDNLM-6786-10	AMINOMETHYLPHOSPHONIC ACID (AMPA)	( <sup>13</sup> C, 99%; <sup>15</sup> N, 98%; METHYLENE-D <sub>2</sub> , 98%) 100 UG/ML H2O	10 ML	¥859,400	*CH4D2*NO3P
CLM-6092-1.2	METHYLPHOSPHONIC ACID, MONOISOPROPYL ESTER	(ISOPROPYL- <sup>13</sup> C <sub>3</sub> , 99%) 100 UG/ML IN METHANOL	1.2 ML	¥199,600	C*C3H11O3P
CLM-6096-1.2	METHYLPHOSPHONIC ACID, MONOCYCLOHEXYL ESTER	(CYCLOHEXYL- <sup>13</sup> C <sub>6</sub> , 99%) 100 UG/ML IN METHANOL	1.2 ML	¥199,600	C*C6H15O3P
CLM-6620-1.2	METHYLPHOSPHONIC ACID, MONO-(1,2,2-TRIMETHYL-PROPYL) ESTER	(TRIMETHYLPROPYL- <sup>13</sup> C <sub>3</sub> , 99%) 100 UG/ML IN MEOH	1.2 ML	¥199,600	C*C6H17O3P
DLM-10606-1.2	BETA-THIODIGLYCOL	(1,1,1',1',2,2,2'-D <sub>8</sub> , 98%) 1 MG/ML IN METHANOL	1.2 ML	¥106,600	C4H2D8O2S
DLM-4541-M-1.2	O,O-DIMETHYL DITHIOPHOSPHATE, POTASSIUM SALT	(DIMETHYL-D <sub>6</sub> , 98%) 100 UG/ML IN METHANOL	1.2 ML	¥199,600	C2D6KO2PS2
DLM-4851-M-1.2	O,O-DIETHYLPHOSPHORIC ACID, POTASSIUM SALT	(DIETHYL-D <sub>10</sub> , 98%) 100 UG/ML IN METHANOL	1.2 ML	¥199,600	C4D10KO4P
DLM-4852-1.2	O,O-DIETHYL THIOPHOSPHATE, POTASSIUM SALT	(DIETHYL-D <sub>10</sub> , 98%) 100 UG/ML IN MEOH	1.2 ML	¥199,600	C4D10KO3PS
DLM-6098-1.2	ETHYL HYDROGEN METHYLPHOSPHONATE	(ETHYL-D <sub>5</sub> , 98%) 100 UG/ML IN METHANOL	1.2 ML	¥190,200	C3H4D5O3P
DLM-6196-1.2	METHYLPHOSPHONIC ACID	(METHYL-D <sub>3</sub> , 98%) 100 UG/ML IN METHANOL	1.2 ML	¥190,200	CH2D3O3P
DLM-6196-10X-1.2	METHYLPHOSPHONIC ACID	(METHYL-D <sub>3</sub> , 98%) 1000 UG/ML IN METHANOL	1.2 ML	¥1,133,400	CH2D3O3P
DLM-8868-1.2	O,O-DIMETHYLPHOSPHORIC ACID, POTASSIUM SALT	(DIMETHYL-D <sub>6</sub> , 98%) 100 UG/ML IN METHANOL	1.2 ML	¥199,600	NA
DLM-8904-1.2	O,O-DIMETHYL THIOPHOSPHATE, POTASSIUM SALT	(DIMETHYL-D <sub>6</sub> , 98%) 100 UG/ML IN METHANOL 97%+ PURE	1.2 ML	¥199,600	C2D6KO3PS
DLM-9003-1.2	O,O-DIETHYL DITHIOPHOSPHATE, POTASSIUM SALT	(DIETHYL-D <sub>10</sub> , 98%) 100 UG/ML IN METHANOL	1.2 ML	¥199,600	C4D10KO2PS2
ES-5547	DIALKYL PHOSPHATE AND PHOSPHOROTHIOATE COCKTAIL	(D, 98%) 10 UG/ML IN METHANOL	1.2 ML	¥299,800	NA
ES-5547-10X	DIALKYL PHOSPHATE AND PHOSPHOROTHIOATE COCKTAIL	(D, 98%) 100 UG/ML IN METHANOL	1.2 ML	¥989,200	NA
ES-5548	DIALKYL PHOSPHATE AND PHOSPHOROTHIOATE NATIVE	UNLABELED 10 UG/ML IN METHANOL	1.2 ML	¥91,600	NA
ES-5548-10X	DIALKYL PHOSPHATE AND PHOSPHOROTHIOATE NATIVE	UNLABELED 100 UG/ML IN METHANOL	1.2 ML	¥280,000	NA
ES-5562	HD METABOLITES NATIVE STANDARD	100 UG/ML IN METHANOL	1.2 ML	¥119,200	NA
ES-5563	AMINES AND ALCOHOL NATIVE STANDARD	100 UG/ML IN METHANOL	1.2 ML	¥119,200	NA
ES-5564	PHOSPHONIC ACID NATIVE STANDARD	100 UG/ML IN METHANOL	1.2 ML	¥119,200	NA
ES-5565	PHOSPHONIC ACID ESTERS NATIVE STANDARD	100 UG/ML IN METHANOL	1.2 ML	¥119,200	NA
ES-5566	PHOSPHONIC ACID HALF-ESTERS NATIVE STANDARD	100 UG/ML IN METHANOL	1.2 ML	¥119,200	NA
ULM-10787-1.2	THIODIGLYCOL	UNLABELED 1 MG/ML IN METHANOL	1.2 ML	¥46,400	C4H10O2S
ULM-6075-1.2	O,O-DIETHYLPHOSPHOROTHIOATE, POTASSIUM SALT	UNLABELED 100 UG/ML IN METHANOL	1.2 ML	¥51,200	(C2H5O)2P(O)SK
ULM-6075-20X-1.2	O,O-DIETHYL PHOSPHOROTHIOATE, POTASSIUM SALT	UNLABELED 2 MG/ML IN METHANOL	1.2 ML	¥182,800	(C2H5O)2P(O)SK
ULM-6091-1.2	N,N-DIMETHYLPHOSPHORAMIDIC ACID, MONOETHYL ESTER, SODIUM SALT (90% CP)	UNL 1000 UG/ML IN METHANOL	1.2 ML	¥51,200	C4H11NP03Na
ULM-6093-1.2	METHYLPHOSPHONIC ACID, MONOISOPROPYL ESTER	UNLABELED 1000 UG/ML IN METHANOL	1.2 ML	¥51,200	C4H11O3P
ULM-6097-1.2	METHYLPHOSPHONIC ACID, MONOCYCLOHEXYL ESTER	UNLAB. 100 UG/ML IN METHANOL	1.2 ML	¥48,000	C7H15O3P
ULM-6097-10X-1.2	METHYLPHOSPHONIC ACID, MONOCYCLOHEXYL ESTER	UNLAB. 1000 UG/ML IN METHANOL	1.2 ML	¥67,000	C7H15O3P
ULM-6099-1.2	METHYLPHOSPHONIC ACID, MONOETHYL ESTER	UNLABELED 1000 UG/ML IN METHANOL	1.2 ML	¥48,000	CH3P(O)(OH)OCH2CH3
ULM-6101-1.2	METHYLPHOSPHONIC ACID	UNLABELED 100 UG/ML IN METHANOL	1.2 ML	¥48,000	CH3P(O)(OH)2
ULM-6619-1.2	METHYLPHOSPHONIC ACID, MONO-(1,2,2-TRIMETHYL-PROPYL) ESTER (CP 95%)	UNLAB 1000UG/ML IN METHANOL	1.2 ML	¥48,000	CH3P(O)(OH)OCH(CH3)C(CH3)3
ULM-8867-1.2	O,O-DIMETHYLPHOSPHORIC ACID, POTASSIUM SALT	UNLABELED 100 UG/ML IN METHANOL	1.2 ML	¥51,200	C2H6KO4P
ULM-8867-20X-1.2	O,O-DIMETHYLPHOSPHORIC ACID, POTASSIUM SALT	UNLABELED 2 MG/ML IN METHANOL	1.2 ML	¥91,600	C2H6KO4P
ULM-8905-1.2	O,O-DIMETHYLPHOSPHOROTHIOATE, POTASSIUM SALT	UNLABELED 1000 UG/ML IN METHANOL 97%+PURE	1.2 ML	¥71,400	C2H6KO3PS
ULM-8905-2X-1.2	O,O-DIMETHYLPHOSPHOROTHIOATE, POTASSIUM SALT	UNLABELED 2MG/ML IN METHANOL 97%+ PURE	1.2 ML	¥91,600	C2H6KO3PS
ULM-9002-1.2	O,O-DIETHYLPHOSPHORODITHIOATE, POTASSIUM SALT	UNLABELED 100 UG/ML IN METHANOL	1.2 ML	¥51,200	C4H10KO2PS2
ULM-9002-20X-1.2	O,O-DIETHYLPHOSPHORODITHIOATE, POTASSIUM SALT	UNLABELED 2 MG/ML IN METHANOL	1.2 ML	¥91,600	C4H10KO2PS2
ULM-9004-1.2	O,O-DIMETHYLPHOSPHORODITHIOATE, POTASSIUM SALT	UNLABELED 100 UG/ML IN METHANOL	1.2 ML	¥51,200	C2H6KO2PS2
ULM-9004-20X-1.2	O,O-DIMETHYLPHOSPHORODITHIOATE, POTASSIUM SALT	UNLABELED 2 MG/ML IN METHANOL	1.2 ML	¥91,600	C2H6KO2PS2
ULM-9225-1.2	RICININE	UNLABELED 100 UG/ML IN ACETONITRILE	1.2 ML	¥38,800	C8H8N2O2
ULM-9287-M-1.2	O,O-DIETHYLPHOSPHORIC ACID, POTASSIUM SALT	UNLABELED 100 UG/ML IN METHANOL	1.2 ML	¥51,200	C4H10KO4P
ULM-9287-M-20X-1.2	O,O-DIETHYLPHOSPHORIC ACID, POTASSIUM SALT	UNLABELED 2 MG/ML IN METHANOL	1.2 ML	¥91,600	C4H10KO4P
ULM-9886-1.2	2-PROPYLPHOSPHONIC ACID	UNLABELED 1000 UG/ML IN METHANOL	1.2 ML	¥48,000	C3H9O3P
ULM-9887-1.2	1,4-DITHIANE	UNLABELED 1000 UG/ML IN METHANOL	1.2 ML	¥48,000	C4H8S2
ULM-9888-1.2	1,4-THIOXANE	UNLABELED 1000 UG/ML IN METHANOL	1.2 ML	¥48,000	C4H8OS
ULM-9889-1.2	THIODIGLYCOL SULFOXIDE	UNLABELED 1000 UG/ML IN METHANOL	1.2 ML	¥48,000	C4H10O3S
ULM-9890-1.2	THIODIGLYCOL SULFONE (~70% WT IN H2O)	UNLABELED 1000 UG/ML IN METHANOL	1.2 ML	¥48,000	O2S(CH2CH2OH)2
ULM-9891-1.2	TRIETHANOLAMINE	UNLABELED 1000 UG/ML IN METHANOL	1.2 ML	¥48,000	(HOCH2CH2)3N
ULM-9892-1.2	N-METHYLDIETHANOLAMINE	UNLABELED 1000 UG/ML IN METHANOL	1.2 ML	¥48,000	CH3N(CH2CH2OH)2
ULM-9893-1.2	N-ETHYLDIETHANOLAMINE	UNLABELED 1000 UG/ML IN METHANOL	1.2 ML	¥48,000	(HOCH2CH2)2NCH2H5

## Pesticide and Chemical Weapon Standards

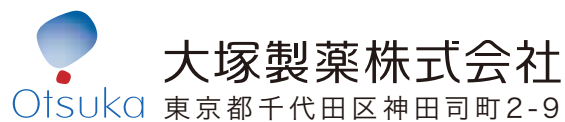
Catalog No.	Compound	Description	Amount	Price (¥)	Formula
ULM-9894-1.2	PINACOLYL ALCOHOL	UNLABELED 1000 UG/ML IN METHANOL	1.2 ML	¥48,000	(CH3)3CCH(OH)CH3
ULM-9895-1.2	1-PROPYLPHOSPHONIC ACID	UNLABELED 1000 UG/ML IN METHANOL	1.2 ML	¥48,000	C3H9O3P
ULM-9896-1.2	DIMETHYL METHYLPHOSPHONATE	UNLABELED 1000 UG/ML IN METHANOL	1.2 ML	¥48,000	C3H9O3P
ULM-9897-1.2	DIETHYL METHYLPHOSPHONATE	UNLABELED 1000 UG/ML IN METHANOL	1.2 ML	¥48,000	CH3P(O)(O)C2H5)2
ULM-9898-1.2	DIISOPROPYL METHYLPHOSPHONATE (95% CP)	UNLABELED 1000 UG/ML IN METHANOL	1.2 ML	¥48,000	C7H17O3P
ULM-9899-1.2	DIPINACOLYL METHYLPHOSPHONATE	UNLABELED 1000 UG/ML IN METHANOL	1.2 ML	¥48,000	C13H29O3P
ULM-9948-1.2	ETHYLPHOSPHONIC ACID	UNLABELED 1000 UG/ML IN METHANOL	1.2 ML	¥48,000	C2H5P(O)(OH)2

## Cyanotoxins

Catalog No.	Compound	Description	Amount	Price (¥)	Formula
DLM-10260-0.025MG	MICROCYSTIN-LR, ETHYLATED	(D <sub>5</sub> , 98%)	0.025 MG	¥113,000	C51H72D5N10O12
NLM-10295-1.2	MICROCYSTIN-LR	( <sup>15</sup> N <sub>10</sub> , 97%) 10 UG/ML IN 1:1 METHANOL:WATER	1.2 ML	¥170,400	C49H74*N10O12
NLM-10340-1.2	MICROCYSTIN-RR	( <sup>15</sup> N <sub>10</sub> , 98%) 10 UG/ML IN 1:1 METHANOL:WATER	1.2 ML	¥170,400	C49H75*N13O12
NLM-10343-1.2	MICROCYSTIN-YR	( <sup>15</sup> N <sub>10</sub> , 98%) 10 UG/ML IN 1:1 METHANOL:WATER	1.2 ML	¥197,600	C52H72*N10O13
NLM-10345-1.2	MICROCYSTIN-LA	( <sup>15</sup> N <sub>7</sub> , 98%) 10 UG/ML IN 1:1 METHANOL:WATER	1.2 ML	¥197,600	C46H67*N7O12
ULM-10341-1.2	MICROCYSTIN-RR	UNLABELED 10 UG/ML IN 1:1 METHANOL:WATER	1.2 ML	¥51,200	C49H75N13O12
ULM-10342-1.2	MICROCYSTIN-LR	UNLABELED 10 UG/ML IN 1:1 METHANOL:WATER	1.2 ML	¥51,200	C49H74N10O12
ULM-10344-1.2	MICROCYSTIN-YR	UNLABELED 10 UG/ML IN 1:1 METHANOL:WATER	1.2 ML	¥69,800	C52H72N10O13
ULM-10346-1.2	MICROCYSTIN-LA	UNLABELED 10 UG/ML IN 1:1 METHANOL:WATER	1.2 ML	¥69,800	C46H67N7O12
CNLM-10424-1.2	BETA-N-METHYLAMINO-L-ALANINE 100 UG/ML IN 0.1M HCL	( <sup>13</sup> C <sub>3</sub> , 99%; <sup>15</sup> N <sub>2</sub> , 98%) US PAT PENDING: 62/368,562	1.2 ML	¥168,200	C*C3H10*N2O2
ULM-10493-1.2	BETA-N-METHYLAMINO-L-ALANINE HCL (97% CP)	UNLABELED 100 UG/ML IN 0.1M HCL	1.2 ML	¥48,000	C4H10N2O2-HCl



[発売元]



[資料請求先]

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