

**CIL**Cambridge Isotope Laboratories, Inc.
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ENVIRONMENTAL STANDARDS

Pharmaceutical & Personal Care Product Standards

- Veterinary and Human Antibiotics
- Sex and Steroidal Hormones
- Prescription and non-Prescription Drugs
- Personal Care Products
- Food, Water, and Industrial Contaminants
- Other Endocrine Disrupting Compounds
- U.S. EPA Method 1694 Standards
- U.S. EPA Method 1698 Standards

In April 2008 the U.S. Subcommittee on Transportation Safety, Infrastructure Security, and Water Quality held a hearing entitled "Pharmaceuticals in the Nations Water: Assessing Potential risks and Actions to Address the Issue".

- There are currently no Federal Drinking Water regulations established for Pharmaceutical and Personal Care Products
- US EPA has developed a new Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) method for the analysis of approximately 100 Pharmaceutical and Personal Care Products (EPA Method 1694)
- Sources include direct consumption, or indirect consumption from wastewater and biosolids not treated to remove these products.
- The research on ecological and human health risks due to trace amounts of pharmaceutical compounds and EDCs in water is not conclusive. More testing is needed to determine the risks associated with these compounds in our waters.
- There is a tremendous need for more isotope labeled standards to increase accuracy and precision of measurements for these compounds at low levels.

Similar assessments have been made by the multi-national project POSEIDON in Europe, as well as studies ongoing in Asia and Canada.

Veterinary and Human Antibiotics

Amoxicillin: 3H₂O (phenyl- ¹³ C ₆ , 99%) CLM-7407-1MG	1 mg
(+/-)-Chloramphenicol (D ₅ , 98%) FSD-079-100 100 µg/mL in acetonitrile	1 mL
(+/-)-Chloramphenicol (unlabeled) ULM-6687-1.2 100 µg/mL in acetonitrile	1.2 mL
Ciprofloxacin•HCl (2,3,carboxyl- ¹³ C ₃ , 99%; quinoline- ¹⁵ N, 98%) CNLM-7539-1.2 100 µg/mL in methanol	1.2 mL
Ciprofloxacin•HCl (unlabeled) ULM-7710-1.2 100 µg/mL in methanol	1.2 mL
Erythromycin (90-95% Erythromycin A) (N,N-dimethyl- ¹³ C ₂ , ~90%) CLM-3672-1.2 100 µg/mL in acetonitrile	1.2mL
Erythromycin (unlabeled) ULM-4322-1.2 100 µg/mL in acetonitrile	1.2 mL
Sulfamethazine (phenyl- ¹³ C ₆ , 90%) CLM-3045-1.2 100 µg/mL in acetonitrile	1.2 mL
Sulfamethazine (unlabeled) ULM-7220-1.2 100 µg/mL in acetonitrile	1.2 mL
Sulfadimethoxine (phenyl- ¹³ C ₆ , 90%) CLM-3044	Inquire
Sulfamethoxazole (ring- ¹³ C ₆ , 99%) CLM-6944-1.2 100 µg/mL in acetonitrile	1.2 mL
Sulfamethoxazole (unlabeled) ULM-7572-1.2 100 µg/mL in acetonitrile	1.2mL
Trimethoprim (¹³ C ₃ , 99%) CLM-7988-A-1.2 50 µg/mL in methanol	1.2 mL
Trimethoprim (unlabeled) ULM-7989-A-1.2 50 µg/mL in methanol	1.2 mL

Sex and Steroidal Hormones

Cholesterol (3,4-¹³C₂, 99%)
CLM-804-0.1 100 mg

Cholesterol (25,26,26,26,27,27,27-D₇,99%)
DLM-3057-0.1 100 mg

Cholesterol (2,2,3,4,4,6-D₆, 98%)
DLM-2607-0.1 100 mg

Cortisol (9,11,12,12-D₄, 98%)
DLM-2218-A-1.2 100 µg/mL in methylene chloride 1.2 mL

Cortisol (unlabeled)
ULM-7823-A-1.2 100 µg/mL in methylene chloride 1.2 mL

Dehydroepiandrosterone (DHEA) (2,2,3,4,4,6-D₆, 98%)
DLM-8049-0.005 5 mg

Diethylstilbestrol (ring-3,3',5,5'-diethyl-1,1,1',1'-D₈, 98%)
DLM-170-1.2 100 µg/mL in methylene chloride-D₂ 1.2 mL

Diethylstilbestrol (ring-3,3',5,5'-diethyl-1,1,1',1'-D₈, 98%)
DLM-170-D-1.2 100 µg/mL in dioxane 1.2 mL

Diethylstilbestrol (unlabeled)
ULM-7921-1.2 100 µg/mL in methylene chloride-D₂ 1.2 mL

Diethylstilbestrol (unlabeled)
ULM-7921-D-1.2 100 µg/mL in dioxane 1.2 mL

DL-Estradiol (13,14,15,16,17,18-¹³C₆, 99%)
CLM-7936-1.2 100 µg/mL in methanol 1.2 mL

Estradiol (unlabeled)
ULM-7449-1.2 100 µg/mL in acetonitrile 1.2 mL

Estriol (2,4-D₂, 98%)
DLM-7468-1.2 100 µg/mL in dioxane 1.2 mL

Estriol (unlabeled)
ULM-8218-1.2 100 µg/mL in dioxane 1.2 mL

DL-Estrone (13,14,15,16,17,18-¹³C₆, 99%)
CLM-7935-1.2 100 µg/mL in methanol 1.2 mL

Estrone (unlabeled)
ULM-7212-1.2 100 µg/mL in acetonitrile 1.2 mL

Ethynylestradiol (20,21-¹³C₂, 99%)
CLM-3375-1.2 100 µg/mL in acetonitrile 1.2 mL

Ethynylestradiol (unlabeled)
ULM-7211-1.2 100 µg/mL in acetonitrile 1.2 mL

DL-2-Hydroxyestradiol (13,14,15,16,17,18-¹³C₆, 99%)
CLM-8012-0.1MG 0.1 mg

2-Hydroxyestradiol (unlabeled)
ULM-8135-0.1MG 0.1 mg

DL-2-Hydroxyestrone (13,14,15,16,17,18-¹³C₆, 99%)
CLM-8011-0.1MG 0.1 mg

2-Hydroxyestrone (unlabeled)
ULM-8134-0.1MG 0.1 mg

DL-2-Hydroxyestrone-3-methyl ether (13,14,15,16,17,18-¹³C₆, 99%)
CLM-8016-0.1MG 0.1 mg

2-Hydroxyestrone-3-methyl ether (unlabeled)
ULM-8133-0.1MG 0.1 mg

DL-4-Hydroxyestrone (13,14,15,16,17,18-¹³C₆, 99%)
CLM-8013-0.1MG 0.1 mg

4-Hydroxyestrone (unlabeled)
ULM-8261-0.1MG 0.1 mg

DL-2-Methoxyestradiol (13,14,15,16,17,18-¹³C₆, 99%)
CLM-8015-0.1MG 0.1 mg

2-Methoxyestradiol (unlabeled)
ULM-8137-0.1MG 0.1 mg

DL-2-Methoxyestrone (13,14,15,16,17,18-¹³C₆, 99%)
CLM-8014-0.1MG 0.1 mg

2-Methoxyestrone (unlabeled)
ULM-8263-0.1MG 0.1 mg

DL-4-Methoxyestrone (13,14,15,16,17,18-¹³C₆, 99%)
CLM-8017-0.1MG 0.1 mg

4-Methoxyestrone (unlabeled)
ULM-8262-0.1MG 0.1 mg

19-Nortestosterone (16,16,17a-D₃)
DLM-3979-5 5 mg

Progesterone (2,2,6,6,17,21,21,21-D₈, 96%)
DLM-6909-1.2 100 µg/mL in dioxane 1.2 mL

Progesterone (unlabeled)
ULM-8219-1.2 100 µg/mL in dioxane 1.2 mL

Testosterone (2,2,4,6,6,-D₅, 98%)
DLM-8085-1.2 100 µg/mL in methylene chloride 1.2 mL

Testosterone (2,2,4,6,6,-D₅, 98%)
DLM-8085-D-1.2 100 µg/mL in dioxane 1.2 mL

Testosterone (1,2-D₂, 98%)
DLM-683-1.2 100 µg/mL in methylene chloride 1.2 mL

Testosterone (unlabeled)
ULM-8081-1.2 100 µg/mL in methylene chloride 1.2 mL

Testosterone (unlabeled)
ULM-8081-D-1.2 100 µg/mL in dioxane 1.2 mL

L-Thyroxine (tyrosine-ring-¹³C₆, 99%)
CLM-6725-0.1MG 0.1 mg

Prescription and non-Prescription Drugs

Acetaminophen (acetyl-¹⁵N, 98%+)
CNLM-3726-1.2 100 µg/mL in acetonitrile 1.2 mL

Acetaminophen (unlabeled)
ULM-7629-1.2 100 µg/mL in acetonitrile 1.2 mL

Alprazolam (D₅, 98%)
A-902 100 µg/mL in methanol 1 mL

Alprazolam (unlabeled)
A-903 1000 µg/mL in methanol 1 mL

Amitriptyline: HCl (N,N-dimethyl-D₆, 98%)
DLM-3008-1.2 100 µg/mL in methanol 1.2 mL

Amitriptyline: HCl (unlabeled)
ULM-8350-1.2 100 µg/mL in methanol 1.2 mL

Caffeine (trimethyl-¹³C₃, 99%)
CLM-514-1.2 100 µg/mL in methanol 1.2 mL

Caffeine (unlabeled) ULM-7653-1.2	100 µg/mL in methanol	1.2 mL
Carbamazepine (D ₁₀ , 98%) DLM-2806-1.2	100 µg/mL in acetonitrile-D ₃	1.2 mL
Carbamazepine (unlabeled) ULM-6581-1.2	100 µg/mL in acetonitrile	1.2 mL
Codeine (D ₆ , 98%) C-041	1.0 mg/mL in methanol	1 mL
Codeine (unlabeled) C-006	1.0 mg/mL in methanol	1 mL
(±) Cotinine (D ₃ , 98%) C-035	1.0 mg/mL in methanol	1 mL
(-) Cotinine (unlabeled) C-016	1.0 mg/mL in methanol	1 mL
Diazepam (D ₅ , 98%) D-902	100 µg/mL in methanol	1 mL
Diazepam (unlabeled) D-907	1000 µg/mL in methanol	1 mL
5,5-Diphenylhydantoin (2- ¹³ C, 99%; 1,3- ¹⁵ N ₂ , 98%) CNLM-411-1.2	100 µg/mL in methanol	1.2 mL
5,5-Diphenylhydantoin (unlabeled) ULM-8533-1.2	100 µg/mL in methanol	1.2 mL
Enalaprilat•H₂O (phenyl-D ₅ , 98%) DLM-2744		Inquire
Fluoxetine: HCl (unlabeled) F-918	1000 µg/mL in methanol	1 mL
Fluoxetine-D₆ Oxalate (D ₆ , 98%) F-919	100 µg/mL in methanol	1 mL
Gemfibrozil (2,2-dimethyl-D ₆ , 98%) DLM-8221-1.2	100 µg/mL in dioxane	1.2 mL
Gemfibrozil (unlabeled) ULM-8225-1.2	100 µg/mL in dioxane	1.2 mL
Ibuprofen (propionic- ¹³ C ₃ , 99%) CLM-6943-1.2	100 µg/mL in acetonitrile	1.2 mL
Ibuprofen (unlabeled) ULM-7275-1.2	100 µg/mL in acetonitrile	1.2 mL
Imipramine:HCl (2,4,6,8-D ₄ , 98%) DLM-3035-1.2		Inquire
Imipramine (unlabeled) I-902	1000 µg/mL in methanol	1 mL
Lorazepam (D ₄ , 98%) L-902	100 µg/mL in acetonitrile	1 mL
Lorazepam (unlabeled) L-901	1000 µg/mL in acetonitrile	1 mL
Naproxen (methyl- ¹³ C, 99%; methyl-D ₃ , 98%) CDLM-7665-1.2	100 µg/mL in acetonitrile	1.2 mL
Naproxen (unlabeled) ULM-7709-1.2	100 µg/mL in acetonitrile	1.2 mL
Norfluoxetine-oxalate (D ₆ , 98%) N-922	100 µg/mL in methanol	1 mL

Norfluoxetine-oxalate (unlabeled) N-923	1000 µg/mL in methanol	1 mL
Phenylbutazone (diphenyl-D ₁₀ , 98%) DLM-3039-1.2	1000 µg/mL in methanol-D ₄	1.2 mL
Phenylbutazone (unlabeled) ULM-7378-1.2	1000 µg/mL in methanol	1.2 mL
Resorcinol (¹³ C ₆ , 99%) CLM-7892		Inquire
Thiabendazole (ring ¹³ C ₆ , 99%) CLM-8370-1.2	100 µg/mL in acetonitrile	1.2 mL
Thiabendazole (unlabeled) ULM-8371-1.2	100 µg/mL in acetonitrile	1.2 mL
Warfarin (phenyl-D ₅ , 98%) DLM-6861-1.2	100 µg/mL in acetonitrile-D ₃	1.2 mL
Personal Care Products		
Acetophenone (ring-D ₅ , 98%) DLM-1557		Inquire
Benzophenone (D ₁₀ , 98%) DLM-183-1.2	100 µg/mL in nonane	1.2 mL
Benzophenone (unlabeled) ULM-8303-1.2	100 µg/mL in nonane	1.2 mL
n-Butyl paraben (ring- ¹³ C ₆ , 99%) CLM-8285-1.2	1000 µg/mL in methanol	1.2 mL
n-Butyl paraben (unlabeled) ULM-8287-1.2	1000 µg/mL in methanol	1.2 mL
DEET (N,N-Diethyl-m-toluamide) (dimethyl-D ₆ , 98%) DLM-4762-1.2	100 µg/mL in methylene chloride-D ₂	1.2 mL
DEET (N,N-Diethyl-m-toluamide) (dimethyl-D ₆ , 98%) DLM-4762-D-1.2	100 µg/mL in dioxane	1.2 mL
DEET (N,N-Diethyl-m-toluamide) (unlabeled) ULM-7975-1.2	100 µg/mL in methylene chloride	1.2 mL
DEET (N,N-Diethyl-m-toluamide) (unlabeled) ULM-7975-D-1.2	100 µg/mL in dioxane	1.2 mL
Hexachlorophene (¹³ C ₁₃ , 99%) CLM-8008-1.2	50 µg/mL in methanol	1.2 mL
Hexachlorophene (unlabeled) ULM-8009-1.2	50 µg/mL in methanol	1.2 mL
4-Hydroxybenzoic acid (ring- ¹³ C ₆ , 99%) CLM-4745-1.2	1000 µg/mL in methanol	1.2 mL
4-Hydroxybenzoic acid (unlabeled) ULM-8251-1.2	1000 µg/mL in methanol	1.2 mL
Methyl paraben (Methyl 4-hydroxybenzoate) (ring- ¹³ C ₆ , 99%) CLM-8249-1.2	1000 µg/mL in methanol	1.2 mL
Methyl paraben (Methyl 4-hydroxybenzoate) (unlabeled) ULM-8250-1.2	1000 µg/mL in methanol	1.2 mL
Methyl Triclosan (ring- ¹³ C ₁₂ , 99%) CLM-7885-1.2	100 µg/mL in nonane	1.2 mL
Methyl Triclosan (unlabeled) ULM-7884-1.2	100 µg/mL in nonane	1.2 mL

Oxybenzone (phenyl-¹³C₆, 99%)
CLM-8525-1.2 100 µg/mL in acetonitrile 1.2 mL

Oxybenzone (unlabeled)
ULM-8531-1.2 100 µg/mL in acetonitrile 1.2 mL

Triclocarban (3,4,4'-Trichlorocarbanilide) (4'-chlorophenyl-¹³C₆, 99%)
CLM-7286-1.2 100 µg/mL in acetonitrile 1.2 mL

Triclocarban (3,4,4'-Trichlorocarbanilide) (unlabeled)
ULM-7968-1.2 100 µg/mL in acetonitrile 1.2 mL

Triclosan (2',4,4'-Trichloro-2-hydroxydiphenyl ether) (¹³C₁₂, 99%)
CLM-6779-1.2 100 µg/mL in nonane 1.2 mL

Triclosan (2',4,4'-Trichloro-2-hydroxydiphenyl ether) (unlabeled)
ULM-6935-1.2 100 µg/mL in nonane 1.2 mL

Food, Water and Industrial Contaminants

Ammelide (ring-¹³C₃, 99%)
CLM-8589-1.2 100 µg/mL in water:diethylamine (80:20) 1.2 mL

Ammelide (unlabeled)
ULM-8590-1.2 100 µg/mL in water:diethylamine (80:20) 1.2 mL

3-Chloro-1,2-propanediol (propane-D₅, 98%)
DLM-4633-1.2 1000 µg/mL in methanol 1.2 mL

3-Chloro-1,2-propanediol (unlabeled)
ULM-7998-1.2 1000 µg/mL in methanol 1.2 mL

(+/-) Cotinine (D₃, 98%)
C-035 1000 µg/mL in methanol 1 mL

(-) Cotinine (unlabeled)
C-016 1000 µg/mL in methanol 1 mL

Cyanuric acid (90%+ chemical purity) (U-¹³C₃, 99%; U-¹⁵N₃, 98%+)
CNLM-4661-1.2 100 µg/mL in water 1.2 mL

Cyanuric acid (unlabeled) (100 µg/mL in water)
ULM-8157-1.2 100 µg/mL in water 1.2 mL

1,4-Dichlorobenzene (¹³C₆, 99%)
CLM-1518 Inquire

Diethylene Glycol (D₈, 98%)
DLM-1632-1.2 1000 µg/mL in methanol 1.2 mL

Diethylene Glycol (unlabeled)
ULM-8235-1.2 1000 µg/mL in methanol 1.2 mL

Levogluconan (1,6-Anhydro-beta-D-glucose) (u-¹³C₆, 98%)
CLM-4748-1.2 100 µg/mL in DMSO 1.2 mL

Levogluconan (1,6-Anhydro-beta-D-glucose) (unlabeled)
ULM-8000-1.2 100 µg/mL in DMSO 1.2 mL

Melamine (¹³C₃, 99%; amino-¹⁵N₃, 98%)
CNLM-8150-1.2 100 µg/mL in water 1.2 mL

Melamine (unlabeled)
ULM-8156-1.2 100 µg/mL in water 1.2 mL

2-Methylisoborneol (2-methyl-D₃, 98%)
DLM-4766-1.2 100 µg/mL in nonane 1.2 mL

Perchloric acid, sodium salt (Sodium perchlorate) (¹⁸O₄, 90%+)
OLM-7310-1.2 100 µg/mL in water 1.2 mL

Perchloric acid, sodium salt (Sodium perchlorate) (unlabeled)
ULM-7312-1.2 100 µg/mL in water 1.2 mL

o-Phenylphenol (phenyl-¹³C₆, 99%)
CLM-3733-1.2 100 µg/mL in nonane 1.2 mL

o-Phenylphenol (unlabeled)
ULM-7396-1.2 100 µg/mL in nonane 1.2 mL

Phthalic acid (ring 1,2-¹³C₂,diocarboxyl-¹³C₂,99%)
CLM-4323-1.2 100 µg/mL in nonane 1.2 mL

Phthalic acid (unlabeled)
ULM-8301-1.2 100 µg/mL in nonane 1.2 mL

Potassium bromate (¹⁸O₃, 98%)
OLM-8283-1.2 100 µg/mL in water 1.2 mL

Potassium bromate (unlabeled)
ULM-8451-1.2 100 µg/mL in water 1.2 mL

Tetrachloroethylene (1,2-¹³C₂, 99%)
CLM-1965 Inquire

2,4,6-Trichloroanisole (D₅, 98%)
DLM-6083-1.2 1000 µg/mL in methanol-D 1.2 mL

2,4,6-Trichloroanisole (unlabeled)
ULM-7999-1.2 1000 µg/mL in methanol 1.2 mL

Other Endocrine Disrupting Compounds

Atrazine (ring-¹³C₃, 99%)
CLM-3737-1.2 100 µg/mL in nonane 1.2 mL

Atrazine (ethylamine-D₅, 98%)
DLM-1149-1.2 100 µg/mL in nonane 1.2 mL

Atrazine (unlabeled)
ULM-7235-1.2 100 µg/mL in nonane 1.2 mL

Bisphenol A (ring-¹³C₁₂, 99%)
CLM-4325-1.2 100 µg/mL in acetonitrile 1.2 mL

Bisphenol A (unlabeled)
ULM-7106-1.2 100 µg/mL in acetonitrile 1.2 mL

N-Nitrosodimethylamine (¹³C₂, 99%, D₆, 98%)
CDLM-7279-S 1000 µg/mL in methylene chloride-D₂ 1 mL

N-Nitrosodimethylamine (D₆, 98%)
DLM-2130-S 1000 µg/mL in methylene chloride-D₂ 1 mL

N-Nitrosodimethylamine (¹⁵N₂, 98%)
NLM-7647-S 1000 µg/mL in methylene chloride 1 mL

p-n-Nonylphenol (ring-¹³C₆, 99%)
CLM-4306-1.2 100 µg/mL in nonane 1.2 mL

p-n-Nonylphenol (unlabeled)
ULM-4559-1.2 100 µg/mL in nonane 1.2 mL

Pyrene (D₁₀, 98%)
DLM-155-1.2 200 µg/mL in isooctane 1.2 mL

Pyrene (unlabeled)
ULM-7417-1.2 200 µg/mL in isooctane 1.2 mL

2,4,5-Trichlorophenoxyacetic acid (ring-¹³C₆, 99%)
CLM-4551-1.2 100 µg/mL in methylene chloride 1.2 mL

2,4,5-Trichlorophenoxyacetic acid (unlabeled)
ULM-7213-1.2 100 µg/mL in methylene chloride 1.2 mL

US EPA Method 1694 Standards

Labeled compound solutions for acid extracted analytes (groups 1, 2, and 3)

Mecloicycline (unlabeled) Inquire

Carbamazepine (D_{10} , 98%)
DLM-2806-1.2 100 µg/mL in acetonitrile- D_3 1.2 mL

(+/-) Cotine (D_3 , 98%)
C-017 100 µg/mL in methanol 1 mL

Fluoxetine- D_6 oxalate (D_6 , 98%)
F-919 100 µg/mL in methanol 1 mL

Gemfibrozil (2,2-dimethyl- D_6 , 98%)
DLM-8221-1.2 100 µg/mL in dioxane 1.2 mL

Acetaminophen (acetyl- $^{13}C_2$, 99%; ^{15}N , 98%+)
CNLM-3726-1.2 100 µg/mL in acetonitrile 1.2 mL

Sulfamethoxazole (ring- $^{13}C_6$, 99%)
CLM-6944-1.2 100 µg/mL in acetonitrile 1.2 mL

Naproxen (methyl- ^{13}C , 99%; methyl- D_3 , 98%)
CDLM-7665-1.2 100 µg/mL in acetonitrile 1.2 mL

Triclocarban (3,4,4'-trichlorocarbanilide) (4'-chlorophenyl- $^{13}C_6$, 99%)
CLM-7286-1.2 100 µg/mL in acetonitrile 1.2 mL

Trimethoprim ($^{13}C_3$, 99%)
CLM-7988-a-1.2 50 µg/mL in methanol 1.2 mL

Thiabendazole (ring $^{13}C_6$, 99%)
CLM-8370-1.2 100 µg/mL in acetonitrile 1.2 mL

Caffeine (trimethyl- $^{13}C_3$, 99%)
CLM-514-1.2 100 µg/mL in methanol 1.2 mL

Erythromycin (90-95% erythromycin a) (n,n-dimethyl- $^{13}C_2$, ~90%)
CLM-3672-1.2 100 µg/mL in acetonitrile 1.2 mL

Triclosan (2',4,4'-trichloro-2-hydroxydiphenyl ether) ($^{13}C_{12}$, 99%)
CLM-6779-1.2 100 µg/mL in nonane 1.2 mL

Warfarin (phenyl- D_5 , 98%)
DLM-6861-1.2 100 µg/mL in acetonitrile- D_3 1.2 mL

Sulfamethazine (phenyl- $^{13}C_6$, 90%)
CLM-3045-1.2 100 µg/mL in acetonitrile 1.2 mL

Ciprofloxacin: HCl (2,3-carboxyl- $^{13}C_3$, 99%; quinoline- ^{15}N , 98%)
CNLM-7539-1.2 100 µg/mL in methanol 1.2 mL

Ibuprofen (propionic- $^{13}C_3$, 99%)
CLM-6943-1.2 100 µg/mL in acetonitrile 1.2 mL

Labeled compound solutions for base extracted analytes (group 4)

Albuterol (D_3 , 98%) Inquire

Metformin (D_6 , 98%) Inquire

Instrument internal standard solutions for acid extracted analytes (groups 1, 2, and 3)

Atrazine (ring- $^{13}C_3$, 99%)
CLM-3737-1.2 100 µg/mL in nonane 1.2 mL

2,4,5-Trichlorophenoxyacetic acid (ring- $^{13}C_6$, 99%)
CLM-4551-1.2 100 µg/mL in methylene chloride 1.2 mL

Instrument internal standard solutions for base extracted analytes (group 4)

Atrazine (ring- $^{13}C_3$, 99%)
CLM-3737-1.2 100 µg/mL in nonane 1.2 mL

(+/-) Cotine (D_3 , 98%)
C-017 100 µg/mL in methanol 1 mL

U.S. EPA Method 1698 Standards

Labeled compound solution

n-Octadecanol (D_{37} , 98%)
DLM-795 Inquire

Bisphenol A (ring- $^{13}C_{12}$, 99%)
CLM-4325-1.2 100 µg/mL in acetonitrile 1.2 mL

DL-Estradiol (13,14,15,16,17,18- $^{13}C_6$, 99%)
CLM-7936-1.2 100 µg/mL in methanol 1.2 mL

Mestranol (D_4 , 98%) Inquire

Norethindrone (ethinyl- $^{13}C_2$, 99%)
CLM-2468 Inquire

Ethinylestradiol (20,21- $^{13}C_2$, 99%)
CLM-3375-1.2 100 µg/mL in acetonitrile 1.2 mL

Progesterone (2,2,6,6,17,21,21- D_8 , 96%)
DLM-6909-1.2 100 µg/mL in dioxane 1.2 mL

Norgestrel (D_6 , 98%) Inquire

Cholesterol (25,26,26,26,27,27- D_7 , 98%)
DLM-3057-0.1 100 mg

Labeled Cholesterol Spiking solution for biosolids

Cholesterol (25,26,26,26,27,27- D_7 , 98%)
DLM-3057-0.1 100 mg

Labeled Injection Internal standard solution

Pyrene (D_{10} , 98%)
DLM-155-1.2 200 µg/mL in isooctane 1.2 mL

Cambridge Isotope Laboratories continues to work with leading laboratories around the world to develop the most comprehensive set of isotope labeled and unlabeled analytical standards for pharmaceutical and personal care products. And with continued collaborations, we anticipate further development of new product offerings in the future.