



CIL

Cambridge Isotope Laboratories, Inc.  
www.isotope.com

RESEARCH PRODUCTS

# Complete listing of Stable Isotope Labeled Steroids including

## NEW <sup>13</sup>C<sub>6</sub> Steroids



CIL is pleased to offer the gravimetrically-prepared analytical standards presented below to assist clinical and medical researchers to quantify common female sex hormones and their metabolites in a variety of biological samples. Many laboratories, including those following EPA Method 1698, will also benefit from using these new standards and the products listed on the following pages.

Catalog #	Description	Position of Label	Size
CLM-7936-0.1mg	<b>DL-Estradiol</b>	(13,14,15,16,17,18- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg
CLM-7936-1.2	<b>DL-Estradiol (100 µg/ml in methanol)</b>	(13,14,15,16,17,18- <sup>13</sup> C <sub>6</sub> , 99%)	1.2 ml
CLM-7935-0.1mg	<b>DL-Estrone</b>	(13,14,15,16,17,18- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg
CLM-7935-1.2	<b>DL-Estrone (100 µg/ml in methanol)</b>	(13,14,15,16,17,18- <sup>13</sup> C <sub>6</sub> , 99%)	1.2 ml
CLM-8033-0.1mg	<b>DL-Estrone 3-methyl ether</b>	(13,14,15,16,17,18- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg
CLM-8012-0.1mg	<b>DL-2-Hydroxyestradiol</b>	(13,14,15,16,17,18- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg
ULM-8135-0.1mg	<b>2-Hydroxyestradiol</b>	Unlabeled	100 µg
CLM-8011-0.1mg	<b>DL-2-Hydroxyestrone</b>	(13,14,15,16,17,18- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg
ULM-8134-0.1mg	<b>2-Hydroxyestrone</b>	Unlabeled	100 µg
CLM-8016-0.1mg	<b>DL-2-Hydroxyestrone-3-methyl ether</b>	(13,14,15,16,17,18- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg
ULM-8133-0.1mg	<b>2-Hydroxyestrone-3-methyl ether</b>	Unlabeled	100 µg
CLM-8013-0.1mg	<b>DL-4-Hydroxyestrone</b>	(13,14,15,16,17,18- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg
ULM-8261-0.1mg	<b>4-Hydroxyestrone</b>	Unlabeled	100 µg
CLM-8019-0.1mg	<b>DL-4-Methoxyestradiol</b>	(13,14,15,16,17,18- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg
ULM-8236-0.1mg	<b>4-Methoxyestradiol</b>	Unlabeled	100 µg
CLM-8015-0.1mg	<b>DL-2-Methoxyestradiol</b>	(13,14,15,16,17,18- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg
ULM-8137-0.1mg	<b>2-Methoxyestradiol</b>	Unlabeled	100 µg
CLM-8014-0.1mg	<b>DL-2-Methoxyestrone</b>	(13,14,15,16,17,18- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg
ULM-8263-0.1mg	<b>2-Methoxyestrone</b>	Unlabeled	100 µg
CLM-8017-0.1mg	<b>DL-4-Methoxyestrone</b>	(13,14,15,16,17,18- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg
ULM-8262-0.1mg	<b>4-Methoxyestrone</b>	Unlabeled	100 µg
CLM-8018-0.1mg	<b>DL-Sodium Estrone 3-sulfate</b>	(13,14,15,16,17,18- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg
ULM-8132-0.1mg	<b>Sodium Estrone 3-sulfate</b>	Unlabeled	100 µg

**<sup>13</sup>C Labeled Steroids and Hormones:**

Catalog #	Description	Position of Label	Size
CLM-804-0.1	<b>Cholesterol</b>	(3,4- <sup>13</sup> C <sub>2</sub> , 99%)	0.1 g
CLM-3361-1	<b>Cholesterol-3-octanoate</b>	(Octanoate-1- <sup>13</sup> C, 99%)	1 g
CLM-1666	<b>Cholic acid</b>	(Carboxyl- <sup>13</sup> C, 90%)	
CLM-2710-0.1	<b>Cholic acid</b>	(24- <sup>13</sup> C, 99%)	0.1 g
CLM-2710-0.5	<b>Cholic acid</b>	(24- <sup>13</sup> C, 99%)	0.5 g
CLM-3364-0.1	<b>Deoxycholic acid</b>	(24- <sup>13</sup> C, 99%)	0.1 g
CLM-3364-0.5	<b>Deoxycholic acid</b>	(24- <sup>13</sup> C, 99%)	0.5 g
CLM-7768	<b>Epicholesterol</b>	(3,4- <sup>13</sup> C <sub>2</sub> , 99%)	
CLM-803-0.01	<b>Estradiol</b>	(3,4- <sup>13</sup> C <sub>2</sub> , 99%)	0.01 g
CLM-673-0.01	<b>Estrone</b>	(3,4- <sup>13</sup> C <sub>2</sub> , 99%)	0.01 g
CLM-6714	<b>Ethisterone</b>	(Acetylene- <sup>13</sup> C <sub>2</sub> , 99%)	
CLM-3375-1.2	<b>Ethynylestradiol (100 µg/ml in Acetonitrile)</b>	(20,21- <sup>13</sup> C <sub>2</sub> , 99%)	1.2 ml
CLM-2468-0.01	<b>Norethindrone</b>	(Ethynyl- <sup>13</sup> C <sub>2</sub> , 99%)	0.01 g
CLM-457-0.01	<b>Progesterone</b>	(3,4- <sup>13</sup> C <sub>2</sub> , 90%)	0.01 g
CLM-159-0.01	<b>Testosterone</b>	(3,4- <sup>13</sup> C <sub>2</sub> , 90%)	0.01 g

**Deuterated or Unlabeled Steroids and Hormones:**

Catalog #	Description	Position of Label	Size
DLM-7534	<b>5-<math>\alpha</math>-Androstan-17<math>\alpha</math>-methyl-17<math>\beta</math>-ol-3-one</b>	(1,2,4,5 $\alpha$ -D <sub>4</sub> , 98%)	
DLM-7976	<b>4-Androstene-3,17-dione</b>	(2,2,4,6,6,16,16-D <sub>7</sub> , 97%)	
ULM-8472	<b>4-Androstene-3,17-dione</b>	Unlabeled	
DLM-7937	<b>Androsterone</b>	(16,16-D <sub>2</sub> , 98%)	
DLM-2807-0.1	<b>Chenodeoxycholic acid</b>	(11,12-D <sub>2</sub> , 94%)	0.1 g
DLM-6780	<b>Chenodeoxycholic acid</b>	(2,2,4,4-D <sub>4</sub> , 98%)	
DLM-4700	<b>Cholestane</b>	(3,3-D <sub>2</sub> , 98%)	
DLM-8276	<b>Cholestenone</b>	(D <sub>5</sub> , 98%)	
DLM-2607-0.1	<b>Cholesterol</b>	(2,2,3,4,4,6-D <sub>6</sub> , 97-98%)	0.1 g
DLM-3057-0.1	<b>Cholesterol</b>	(25,26,26,26,27,27,27-D <sub>7</sub> , 98%)	0.1 g
DLM-2611	<b>Cholic acid</b>	(2,2,4,4-D <sub>4</sub> , 98%)	
DLM-7347-0.01	<b>Corticosterone</b>	(2,2,4,6,6,17 $\alpha$ ,21,21-D <sub>8</sub> , 98%)	0.01 g
DLM-2615	<b>Cortisol</b>	(1,2-D <sub>2</sub> , 98%)	
DLM-2057-0.01	<b>Cortisol</b>	(9,12,12-D <sub>3</sub> , 98%)	0.01 g
DLM-2218-0.01	<b>Cortisol</b>	(9,11,12,12-D <sub>4</sub> , 98%)	0.01 g
DLM-2218-A-1.2	<b>Cortisol (100 µg/ml in CH<sub>2</sub>Cl<sub>2</sub>)</b>	(9,11,12,12-D <sub>4</sub> , 98%)	1.2 ml
ULM-7823-A-1.2	<b>Cortisol (100 µg/ml in CH<sub>2</sub>Cl<sub>2</sub>)</b>	Unlabeled	1.2 ml
DLM-4216	<b>7-Dehydrocholesterol</b>	(25,26,26,26,27,27,27-D <sub>7</sub> , 98%)	
DLM-8049	<b>Dehydroepiandrosterone (DHEA)</b>	(2,2,3,4,4,6-D <sub>6</sub> , 95%) 97% Chemical Purity	.005 g
DLM-7209	<b>11-Deoxycortisol</b>	(21,21-D <sub>2</sub> , 96%)	

## Deuterated or Unlabeled Steroids and Hormones:

Catalog #	Description	Position of Label	Size
DLM-8305	<b>21-Deoxycortisol</b>	(D <sub>8</sub> , 96%)	
DLM-170-0.05	<b>Diethylstilbestrol (cis/trans Mix)</b>	(Ring-3,3',5,5'-Diethyl- 1,1,1',1'-D <sub>8</sub> , 98%)	0.05 g
DLM-170-0.1	<b>Diethylstilbestrol (cis/trans Mix)</b>	(Ring-3,3',5,5'-Diethyl-1,1,1',1'-D <sub>8</sub> , 98%)	0.1 g
DLM-3023	<b>Dihydrotestosterone</b>	(16,16,17α-D <sub>3</sub> , 98%)	
DLM-3863	<b>5-alpha-Dihydrotestosterone</b>	(1,2,4,5α-D <sub>4</sub> , 98%)	
ULM-8364	<b>5-alpha-Dihydrotestosterone</b>	Unlabeled	
DLM-2487-5	<b>Estradiol</b>	(2,4,16,16-D <sub>4</sub> , 95-97%)	0.005 g
DLM-7468-1.2	<b>Estriol (100 µg/ml in p-dioxane)</b>	(2,4-D <sub>2</sub> , 98%)	1.2 ml
ULM-8218-1.2	<b>Estriol (100 µg/ml in p-dioxane)</b>	Unlabeled	1.2 ml
DLM-4691	<b>17-alpha-Ethynylestradiol</b>	(2,4,16,16-D <sub>4</sub> , 97-98%)	
ULM-7211-1.2	<b>Ethynylestradiol (100 µg/ml in Acetonitrile)</b>	Unlabeled	1.2 ml
DLM-7206	<b>17-Hydroxypregnenolone</b>	(21,21,21-D <sub>3</sub> , 97%)	
DLM-6598	<b>17-Hydroxyprogesterone</b>	(2,2,4,6,6,21,21,21-D <sub>8</sub> , 98%)	
DLM-3979-5	<b>19-Nortestosterone</b>	(16,16,17α-D <sub>3</sub> , 98%)	0.005 g
ULM-4841	<b>19-Nortestosterone</b>	Unlabeled	
DLM-3910-0.01	<b>5-alpha-Pregnan-3-alpha,21-diol-20-one</b>	(17α,21,21-D <sub>3</sub> , 95%)	0.01 g
DLM-3816-0.01	<b>5-alpha-Pregnan-3,20-dione</b>	(1,2,4,5,6,7-D <sub>6</sub> , 95%)	0.01 g
DLM-3817	<b>5-beta-Pregnan-3,20-dione</b>	(1,2,4,5,6,7-D <sub>6</sub> , 95%)	
DLM-3754-0.01	<b>5-alpha-Pregnan-3-alpha-ol-20-one</b>	(17α,21,21,21-D <sub>4</sub> , 96-98%) 95%+ Pure	0.01 g
DLM-2294-0.01	<b>5-beta-Pregnan-3-alpha-ol-20-one</b>	(17α,21,21,21-D <sub>4</sub> , 96-98%)	0.01 g
ULM-3779	<b>5-alpha-Pregnan-3-alpha-ol-20-one</b>	Unlabeled 97% Chemical Purity	
DLM-7492	<b>5-alpha-Pregnan-3-beta-ol-20-one</b>	(17α,21,21,21-D <sub>4</sub> , 97%+) 96% Pure	
ULM-8242	<b>5-alpha-Pregnan-3-beta-ol-20-one</b>	Unlabeled	
ULM-222	<b>Pregna-1,4,6-Triene-3,20-dione</b>	Unlabeled	
DLM-7228	<b>4-Pregnen-21-ol-3,20-dione</b>	(2,2,4,6,6,17α,21,21-D <sub>8</sub> , 96%) 95% Chemical Purity	
DLM-6896	<b>Pregnenolone</b>	(17α,21,21,21-D <sub>4</sub> , 98%)	
DLM-6909-1.2	<b>Progesterone (100 µg/ml in p-dioxane)</b>	(2,2,6,6,17α,21,21,21-D <sub>8</sub> , 96%)	1.2 ml
ULM-8219-1.2	<b>Progesterone (100 µg/ml in p-dioxane)</b>	Unlabeled	1.2 ml
DLM-7457	<b>Sodium 17β-Estradiol 3-sulfate</b>	Tris (2,4,16,16-D <sub>4</sub> , 98%), Stabilized with 50% W/W Tris	
DLM-7456	<b>Sodium Estrone 3-sulfate</b>	Tris (2,4,16,16-D <sub>4</sub> , 98%), Stabilized with 50% W/W Tris	
DLM-683-0.1	<b>Testosterone</b>	(1, 2-D <sub>2</sub> , 98%)	1.2 ml
DLM-8085-1.2	<b>Testosterone (100 µg/ml in methanol)</b>	(2,2,4,6,6-D <sub>5</sub> , 98%)	1.2 ml
ULM-8081-1.2	<b>Testosterone (100 µg/ml in methylene chloride)</b>	Unlabeled	1.2 ml
DLM-7477	<b>3-alpha,5-beta-Tetrahydrodeoxycorticosterone</b>	(17α,21,21-D <sub>3</sub> , 97%) 96% Chemical Purity	

Additional packaging sizes and bulk discounts are available upon request.

Some steroids are controlled substances and permits may be required.