



CIL

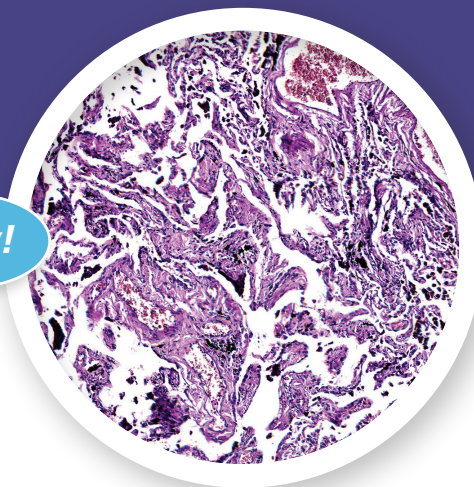
Cambridge Isotope Laboratories, Inc.  
isotope.com

Eurisotop

A CAMBRIDGE ISOTOPE LABORATORIES COMPANY

RESEARCH PRODUCTS

# Additional Standards for MS/MS

**New!**

Cambridge Isotope Laboratories, Inc. (CIL) is pleased to offer these additional high-quality standards for use in tandem mass spectrometry (MS/MS). These isotope-labeled standards are fit for quantification via isotope dilution mass spectrometry (IDMS).

Catalog No.	Description
CNLM-9007-CA-0.1MG	L-Argininosuccinic acid, barium salt·2H <sub>2</sub> O (arginine- <sup>13</sup> C <sub>6</sub> , 99%; <sup>15</sup> N <sub>4</sub> , 99%) CP 90%+
CNLM-9007-CA-0.5MG	L-Argininosuccinic acid, barium salt·2H <sub>2</sub> O (arginine- <sup>13</sup> C <sub>6</sub> , 99%; <sup>15</sup> N <sub>4</sub> , 99%) CP 90%+
ULM-9008-CA-0.1MG	L-Argininosuccinic acid, barium salt·3H <sub>2</sub> O (unlabeled) CP 90%+
<b>NEW!</b> NSK-PO-1	α-Glucosidase Substrate and Internal Standard
<b>NEW!</b> NSK-FA-1	α-Galactosidase Substrate and Internal Standard
CLM-9792-0.001	Hexacosanoyl lysophosphatidylcholine (hexacosanoyl-1,2,3,4,5,6- <sup>13</sup> C <sub>6</sub> , 99%)
CLM-9792-0.005	Hexacosanoyl lysophosphatidylcholine (hexacosanoyl-1,2,3,4,5,6- <sup>13</sup> C <sub>6</sub> , 99%)
ULM-9791-0.005	Hexacosanoyl lysophosphatidylcholine (unlabeled)
ULM-9791-0.01	Hexacosanoyl lysophosphatidylcholine (unlabeled)
CLM-9426	Methylmalonic acid ( <sup>13</sup> C <sub>4</sub> , 99%)
DLM-387-0.25	Methylmalonic acid (methy-D <sub>3</sub> , 98%)
DLM-3619-1	DL-Homocystine (3,3,3',3',4,4,4',4'-D <sub>8</sub> , 98%)

Please see other side for additional product details >

## Other Standards Coming Soon!

Catalog No.	Description
NSK-MP-1	α-L-Iduronidase Substrate and Internal Standard
NSK-KR-1	Galactocerebrosidase Substrate and Internal Standard

Catalog No.	Description
NSK-GA-1	Glucocerebrosidase Substrate and Internal Standard
NSK-NI-1	Acid Sphingomyelinase Substrate and Internal Standard

For research use only. Not for use in diagnostic procedures.

Catalog No.	Description
NSK-PO-1	Lysosomal $\alpha$ -Glucosidase Substrate and Internal Standard
Each vial contains the following compounds at a molar ratio of 100:1:	
Compound #1	(7-Benzoylamino-heptyl)-[2-[4-(3,4,5-trihydroxy-6-hydroxymethyl-tetrahydro-pyran-2-yloxy)-phenylcarbonyl]-ethyl]-carbamic acid <i>tert</i> -butyl ester
Formula	C <sub>34</sub> H <sub>49</sub> N <sub>3</sub> O <sub>10</sub>
Weight (Da)	659.8
Compound #2	(7-d <sub>5</sub> -Benzoylamino-heptyl)-[2-(4-hydroxy-phenyl-carbonyl)-ethyl]-carbamic acid <i>tert</i> -butyl ester
Formula	C <sub>28</sub> H <sub>34</sub> N <sub>3</sub> O <sub>5</sub> D <sub>5</sub>
Weight (Da)	502.7

### Product Specifications

Amount	~600 samples per vial
Storage and stability	Store in freezer (-20°C), protected from light
Stability	Two years if stored under recommended conditions. If reconstituted, store in either 2-8°C or in freezer (-20°C) for up to four weeks.

**For research use only. Not for use in diagnostic procedures.**

### Reference

Haynes, C.A.; De Jesús, V.R. **2016**. Simultaneous quantitation of hexacosanoyl lysophosphatidylcholine, amino acids, acylcarnitines, and succinylacetone during FIA-ESI-MS/MS analysis of dried blood spot extracts for newborn screening. *Clin Biochem*, 49(1-2), 161-165.

Catalog No.	Description
NSK-FA-1	$\alpha$ -Galactosidase Substrate and Internal Standard
Each vial contains the following compounds at a molar ratio of 500:1:	
Compound #1	(6-Benzoylamino-hexyl)-[2-[4-(3,4,5-trihydroxy-6-hydroxymethyl-tetrahydro-pyran-2-yloxy)-phenylcarbonyl]-ethyl]-carbamic acid <i>tert</i> -butyl ester
Formula	C <sub>33</sub> H <sub>47</sub> N <sub>3</sub> O <sub>10</sub>
Weight (Da)	645.7
Compound #2	(6-d <sub>5</sub> -Benzoylamino-hexyl)-[2-(4-hydroxy-phenyl-carbonyl)-ethyl]-carbamic acid <i>tert</i> -butyl ester
Formula	C <sub>27</sub> H <sub>32</sub> N <sub>3</sub> O <sub>5</sub> D <sub>5</sub>
Weight (Da)	488.6

### Product Specifications

Amount	~600 samples per vial
Storage and stability	Store in freezer (-20°C), protected from light
Stability	Two years if stored under recommended conditions. If reconstituted, store in either 2-8°C or in freezer (-20°C) for up to four weeks.

