



LIPIDOMIX® Quantitative Mass Spec Standards

Exclusively available from Merck*

- Single-use vials
- Ready-to-use concentrations
- Concentrations verified using quantitative NMR
- Certificate of analysis for every batch
- Reduce standard preparation time with high-purity LC/MS grade solvents formulated with trustworthy Avanti® purity

Deuterated Ceramide LIPIDOMIX® Quantitative Mass Spec Internal Standard

Product Number 330713X-1EA

Deuterated version of 4 ceramide compounds found to be relevant in determining CVD risk. Each ampoule contains 1 mL of 1:1 DCM:MeOH solution with a mixture of four lipid standards. Concentrations are verified for use as a quantitative standard.

Mixture Component	MW	µg/mL	µM
C16 Ceramide-d7 (d18:1-d7/16:0)	544.944	21.8	40
C18 Ceramide-d7 (d18:1-d7/18:0)	572.997	11.5	20
C24 Ceramide-d7 (d18:1-d7/24:0)	650.113	26.3	40
C24:1 Ceramide-d7 (d18:1-d7/24:1(15Z))	655.141	13.1	20

Odd-Chained LIPIDOMIX® Quantitative Mass Spec Internal Standard

Product Number 330711X-1EA

Odd-chained lipids for use as internal standards in lipidomic analysis. Each sealed ampoule contains 1 mL 1:1 DCM:MeOH solution with a mixture of 16 lipid standards. Concentrations are verified for use as a quantitative standard.

Mixture Component	MW	µg/mL	µM
17:1 Lyso PG (Na Salt)	518.56	13	25
17:1 Lyso PA (NH ₄ Salt)	439.524	15	36
17:1 Lyso PI (NH ₄ Salt)	601.664	13	22
17:1 Lyso PS (Na Salt)	531.552	13	25
17:1 Lyso PC	507.641	575	1125
17:1 Lyso PE	465.568	12	25
17:0-17:0 DAG	596.978	300	500
17:0-17:0-17:0 TAG	849.42	1500	1750
12:0 SM (d18:1/12:0)	646.922	650	1000
17:0-14:1 PC	717.996	3775	5250
17:0-14:1 PS (NH ₄ Salt)	736.957	180	250
17:0-14:1 PG (NH ₄ Salt)	723.958	90	125
17:0-14:1 PA (NH ₄ Salt)	649.879	15	25
17:0-14:1 PE	675.917	120	175
17:0-14:1 PI (NH ₄ Salt)	812.02	200	250
17:0 Chol Ester	639.089	8475	13250

* Merck is the exclusive supplier of Avanti® Polar Lipids to customers outside the United States and Canada.

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- Storage and Handling of Lipids
- Fatty Acid Distribution
- Phase Transition Temperatures
- Miscibility of Phospholipid Binary Mixtures
- Ionization Constants of Phospholipids
- Critical Micelle Concentrations (CMCs)

SPLASH® LIPIDOMIX® Quantitative Mass Spec Internal Standard

Product Number 330707-1EA

Deuterated lipid internal standards in amounts relative to human plasma lipid concentrations. Each sealed ampoule contains 1 mL methanol solution containing 14 lipid classes. Concentrations are verified for use as a quantitative standard.

Mixture Component	MW	µg/mL	µM
15:0-18:1(d7) PC	753.11	160	210
15:0-18:1(d7) PE	711.03	5	7
15:0-18:1(d7) PS (Na Salt)	777.02	5	7
15:0-18:1(d7) PG (Na Salt)	764.02	30	40
15:0-18:1(d7) PI (NH4 Salt)	847.13	10	12
15:0-18:1(d7) PA (Na Salt)	689.94	7	10
18:1(d7) Lyso PC	528.72	25	45
18:1(d7) Lyso PE	486.64	5	10
18:1(d7) Chol Ester	658.16	350	530
18:1(d7) MAG	363.59	2	5
15:0-18:1(d7) DAG	587.98	10	16
15:0-18:1(d7)-15:0 TAG	812.37	55	70
d18:1-18:1(d9) SM	738.12	30	40
Cholesterol (d7)	393.71	100	250

Ceramide LIPIDOMIX® Quantitative Mass Spec Standard

Product Number 330712X-1EA

Calibration mixture of 4 compounds found to be relevant in determining CVD risk. Each ampoule contains 1 mL of 1:1 DCM:MEOH solution with a mixture of four lipid standards. Concentrations are verified for use as a quantitative standard.

Mixture Component	MW	µg/mL	µM
C16 Ceramide (d18:1/16:0)	537.901	16.1	30
C18 Ceramide (d18:1/18:0)	565.954	8.5	15
C24 Ceramide (d18:1/24:0)	650.113	48.8	75
C24:1 Ceramide (d18:1/24:1(15Z))	648.097	24.3	37.5

SPLASH® II LIPIDOMIX® Quantitative Mass Spec Internal Standard

Product Number 330709W-1EA

Deuterated lipid internal standards in amounts relative to human plasma lipid concentration now includes plasmalogen species. Each sealed ampoule contains 1 mL methanol solution with a mixture of 12 lipid standards. Concentrations are verified for use as a quantitative standard.

Mixture Component	MW	µg/mL	µM
15:0-18:1(d7) PC	753.11	160	210
15:0-18:1(d7) PE	711.03	5	7
15:0-18:1(d7) PS (Na Salt)	777.02	8	10
15:0-18:1(d7) PI (NH4 Salt)	847.13	8	10
18:1(d7) Lyso PC	528.72	25	45
18:1(d7) Lyso PE	486.64	0.5	1
18:1(d7) Chol Ester	658.16	350	530
C18(Plasm)-18:1(d9) PC	781.19	8	10
15:0-18:1(d7) DAG	587.98	12	20
15:0-18:1(d7)-15:0 TAG	812.37	55	70
d18:1-18:1(d9) SM	738.12	30	40
C18(Plasm)-18:1(d9) PE	739.11	0.07	0.1

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