

UltimateSPLASH™ ONE Internal Standard for Lipidomic Analysis
Product Number 330820L-1EA
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| | |
|-------------------------|---|
| Physical form | 1:1 Dichloromethane:Methanol Solution (1.2mL per vial) containing 69 deuterium labeled internal standards |
| Storage | -20° C (Freezer) |
| Manufacture date | May 24, 2023 |
| Expiration date | One year from date of receipt |
| Product Handling | This is a single-use container. Prior to opening, warm bath sonicate the ampule for approximately five minutes and perform repeated inversion or vortex mixing to completely solubilize and mix vial contents. Lipids in solution can precipitate during shipping and storage conditions. |
| Lot number | 330820L-1EA-011 |
| M Lot number | 6833LAA011 |

| Internal Standard | Molecular Formula | Exact Mass | Concentration <small>(Determined using Quantitative Proton NMR, and based on the isotopic purity of each individual standard by Mass Spec)</small> |
|-----------------------------------|--|------------|---|
| 14:0-13:0-14:0 TG-d5 | C ₄₄ H ₇₉ D ₅ O ₆ | 713.6582 | 25 µg/mL |
| 14:0-15:1-14:0 TG-d5 | C ₄₆ H ₈₁ D ₅ O ₆ | 739.6738 | 50 µg/mL |
| 14:0-17:1-14:0 TG-d5 | C ₄₈ H ₈₅ D ₅ O ₆ | 767.7051 | 75 µg/mL |
| 16:0-15:1-16:0 TG-d5 | C ₅₀ H ₈₉ D ₅ O ₆ | 795.7364 | 100 µg/mL |
| 16:0-17:1-16:0 TG-d5 | C ₅₂ H ₉₃ D ₅ O ₆ | 823.7677 | 125 µg/mL |
| 16:0-19:2-16:0 TG-d5 | C ₅₄ H ₉₅ D ₅ O ₆ | 849.7834 | 100 µg/mL |
| 18:1-17:1-18:1 TG-d5 | C ₅₆ H ₉₇ D ₅ O ₆ | 875.7990 | 75 µg/mL |
| 18:1-19:2-18:1 TG-d5 | C ₅₈ H ₉₉ D ₅ O ₆ | 901.8147 | 50 µg/mL |
| 18:1-21:2-18:1 TG-d5 | C ₆₀ H ₁₀₃ D ₅ O ₆ | 929.8460 | 25 µg/mL |
| 14:1 cholesteryl-d7 ester | C ₄₁ H ₆₃ D ₇ O ₂ | 601.5815 | 25 µg/mL |
| 16:1 cholesteryl-d7 ester | C ₄₃ H ₆₇ D ₇ O ₂ | 629.6128 | 50 µg/mL |
| 18:1 cholesteryl-d7 ester | C ₄₅ H ₇₁ D ₇ O ₂ | 657.6441 | 75 µg/mL |
| 20:3 cholesteryl-d7 ester | C ₄₇ H ₇₁ D ₇ O ₂ | 681.6441 | 50 µg/mL |
| 22:4 cholesteryl-d7 ester | C ₄₉ H ₇₃ D ₇ O ₂ | 707.6598 | 25 µg/mL |
| C16:1 Ceramide-d7 (d18:1-d7/16:1) | C ₃₄ H ₅₈ D ₇ NO ₃ | 542.5404 | 75 µg/mL |
| C18:1 Ceramide-d7 (d18:1-d7/18:1) | C ₃₆ H ₆₂ D ₇ NO ₃ | 570.5717 | 50 µg/mL |
| C20:1 Ceramide-d7 (d18:1-d7/20:1) | C ₃₈ H ₆₆ D ₇ NO ₃ | 598.6030 | 25 µg/mL |
| C22:1 Ceramide-d7 (d18:1-d7/22:1) | C ₄₀ H ₇₀ D ₇ NO ₃ | 626.6343 | 50 µg/mL |
| C24:1 Ceramide-d7 (d18:1-d7/24:1) | C ₄₂ H ₇₄ D ₇ NO ₃ | 654.6656 | 75 µg/mL |
| 16:1 SM (d18:1/16:1)-d9 | C ₃₉ H ₆₈ D ₉ N ₂ O ₆ P | 709.6084 | 75 µg/mL |
| 18:1 SM (d18:1/18:1)-d9 | C ₄₁ H ₇₂ D ₉ N ₂ O ₆ P | 737.6397 | 50 µg/mL |
| 20:1 SM (d18:1/20:1)-d9 | C ₄₃ H ₇₆ D ₉ N ₂ O ₆ P | 765.6710 | 25 µg/mL |
| 22:1 SM (d18:1/22:1)-d9 | C ₄₅ H ₈₀ D ₉ N ₂ O ₆ P | 793.7023 | 50 µg/mL |
| 24:1 SM (d18:1/24:1)-d9 | C ₄₇ H ₈₄ D ₉ N ₂ O ₆ P | 821.7336 | 75 µg/mL |

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|--|---|------------|---|
| 17:0-14:1 PC-d5 | C ₃₉ H ₇₁ D ₅ NO ₈ P | 722.5622 | 50 µg/mL |
| 17:0-16:1 PC-d5 | C ₄₁ H ₇₅ D ₅ NO ₈ P | 750.5935 | 100 µg/mL |
| 17:0-18:1 PC-d5 | C ₄₃ H ₇₉ D ₅ NO ₈ P | 778.6248 | 150 µg/mL |
| 17:0-20:3 PC-d5 | C ₄₅ H ₇₉ D ₅ NO ₈ P | 802.6248 | 100 µg/mL |
| 17:0-22:4 PC-d5 | C ₄₇ H ₈₁ D ₅ NO ₈ P | 828.6405 | 50 µg/mL |
| 17:0-14:1 PE-d5 | C ₃₆ H ₆₅ D ₅ NO ₈ P | 680.5153 | 25 µg/mL |
| 17:0-16:1 PE-d5 | C ₃₈ H ₆₉ D ₅ NO ₈ P | 708.5466 | 50 µg/mL |
| 17:0-18:1 PE-d5 | C ₄₀ H ₇₃ D ₅ NO ₈ P | 736.5779 | 75 µg/mL |
| 17:0-20:3 PE-d5 | C ₄₂ H ₇₃ D ₅ NO ₈ P | 760.5779 | 50 µg/mL |
| 17:0-22:4 PE-d5 | C ₄₄ H ₇₅ D ₅ NO ₈ P | 786.5935 | 25 µg/mL |
| 17:0-14:1 PG-d5 (Na Salt) | C ₃₇ H ₆₅ D ₅ NaO ₁₀ P | 733.4918 | 25 µg/mL |
| 17:0-16:1 PG-d5 (Na Salt) | C ₃₉ H ₆₉ D ₅ NaO ₁₀ P | 761.5231 | 50 µg/mL |
| 17:0-18:1 PG-d5 (Na Salt) | C ₄₁ H ₇₃ D ₅ NaO ₁₀ P | 789.5544 | 75 µg/mL |
| 17:0-20:3 PG-d5 (Na Salt) | C ₄₃ H ₇₃ D ₅ NaO ₁₀ P | 813.5544 | 50 µg/mL |
| 17:0-22:4 PG-d5 (Na Salt) | C ₄₅ H ₇₅ D ₅ NaO ₁₀ P | 839.5701 | 25 µg/mL |
| 17:0-14:1 PS-d5 (Na Salt) | C ₃₇ H ₆₄ D ₅ NNaO ₁₀ P | 746.4871 | 25 µg/mL |
| 17:0-16:1 PS-d5 (Na Salt) | C ₃₉ H ₆₈ D ₅ NNaO ₁₀ P | 774.5184 | 50 µg/mL |
| 17:0-18:1 PS-d5 (Na Salt) | C ₄₁ H ₇₂ D ₅ NNaO ₁₀ P | 802.5497 | 75 µg/mL |
| 17:0-20:3 PS-d5 (Na Salt) | C ₄₃ H ₇₂ D ₅ NNaO ₁₀ P | 826.5497 | 50 µg/mL |
| 17:0-22:4 PS-d5 (Na Salt) | C ₄₅ H ₇₄ D ₅ NNaO ₁₀ P | 852.5653 | 25 µg/mL |
| 17:0-14:1 DG-d5 | C ₃₄ H ₅₉ D ₅ O ₅ | 557.5068 | 25 µg/mL |
| 17:0-16:1 DG-d5 | C ₃₆ H ₆₃ D ₅ O ₅ | 585.5381 | 50 µg/mL |
| 17:0-18:1 DG-d5 | C ₃₈ H ₆₇ D ₅ O ₅ | 613.5694 | 75 µg/mL |
| 17:0-20:3 DG-d5 | C ₄₀ H ₆₇ D ₅ O ₅ | 637.5694 | 50 µg/mL |
| 17:0-22:4 DG-d5 | C ₄₂ H ₆₉ D ₅ O ₅ | 663.5850 | 25 µg/mL |
| 17:0-14:1 PI-d5 (NH ₄ Salt) | C ₄₀ H ₇₃ D ₅ NO ₁₃ P | 816.5525 | 25 µg/mL |
| 17:0-16:1 PI-d5 (NH ₄ Salt) | C ₄₂ H ₇₇ D ₅ NO ₁₃ P | 844.5838 | 50 µg/mL |
| 17:0-18:1 PI-d5 (NH ₄ Salt) | C ₄₄ H ₈₁ D ₅ NO ₁₃ P | 872.6151 | 75 µg/mL |
| 17:0-20:3 PI-d5 (NH ₄ Salt) | C ₄₆ H ₈₁ D ₅ NO ₁₃ P | 896.6151 | 50 µg/mL |
| 17:0-22:4 PI-d5 (NH ₄ Salt) | C ₄₈ H ₈₃ D ₅ NO ₁₃ P | 922.6307 | 25 µg/mL |

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|--|--|------------|---|
| 15:0 Lyso PI-d5 (NH ₄ Salt) | C ₂₄ H ₄₅ D ₅ NO ₁₂ P | 580.3384 | 25 µg/mL |
| 17:0 Lyso PI-d5 (NH ₄ Salt) | C ₂₆ H ₄₉ D ₅ NO ₁₂ P | 608.3697 | 50 µg/mL |
| 19:0 Lyso PI-d5 (NH ₄ Salt) | C ₂₈ H ₅₃ D ₅ NO ₁₂ P | 636.4010 | 25 µg/mL |
| 15:0 Lyso PS-d5 (Na Salt) | C ₂₁ H ₃₆ D ₅ NNaO ₉ P | 510.2730 | 25 µg/mL |
| 17:0 Lyso PS-d5 (Na Salt) | C ₂₃ H ₄₀ D ₅ NNaO ₉ P | 538.3043 | 50 µg/mL |
| 19:0 Lyso PS-d5 (Na Salt) | C ₂₅ H ₄₄ D ₅ NNaO ₉ P | 566.3356 | 25 µg/mL |
| 15:0 Lyso PG-d5 (Na Salt) | C ₂₁ H ₃₇ D ₅ NaO ₉ P | 497.2778 | 25 µg/mL |
| 17:0 Lyso PG-d5 (Na Salt) | C ₂₃ H ₄₁ D ₅ NaO ₉ P | 525.3091 | 50 µg/mL |
| 19:0 Lyso PG-d5 (Na Salt) | C ₂₅ H ₄₅ D ₅ NaO ₉ P | 553.3404 | 25 µg/mL |
| 15:0 Lyso PC-d5 | C ₂₃ H ₄₃ D ₅ NO ₇ P | 486.3482 | 25 µg/mL |
| 17:0 Lyso PC-d5 | C ₂₅ H ₄₇ D ₅ NO ₇ P | 514.3795 | 50 µg/mL |
| 19:0 Lyso PC-d5 | C ₂₇ H ₅₁ D ₅ NO ₇ P | 542.4108 | 25 µg/mL |
| 15:0 Lyso PE-d5 | C ₂₀ H ₃₇ D ₅ NO ₇ P | 444.3013 | 25 µg/mL |
| 17:0 Lyso PE-d5 | C ₂₂ H ₄₁ D ₅ NO ₇ P | 472.3326 | 50 µg/mL |
| 19:0 Lyso PE-d5 | C ₂₄ H ₄₅ D ₅ NO ₇ P | 500.3639 | 25 µg/mL |

Approved by:



Quality Control Representative

QC Release Date:

06/15/2023