**Appendix 1:** List of lipid standards used in the current study.

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| --- | --- | --- | --- |
| Compound Name | ExactMass | Chemical Formula | Concentration(µg/mL) |
| 15:0-18:1(d7) PC | 752.6061 | C41H73D7NO8P | 160.7 |
| 15:0-18:1(d7) PE | 710.5591 | C38H67D7NO8P | 5.7 |
| 15:0-18:1(d7) PS (Na Salt) | 776.5309 | C39H66D7NNaO10P | 4.2 |
| 15:0-18:1(d7) PG (Na Salt) | 763.5357 | C39H67D7NaO10P | 29.1 |
| 15:0-18:1(d7) PI (NH4 Salt) | 846.5963 | C42H75D7NO13P | 9.1 |
| 18:1(d7) Lyso PC | 528.3921 | C26H45D7NO7P | 25.5 |
| 18:1(d7) Lyso PE | 486.3451 | C23H39D7NO7P | 5.3 |
| 18:1(d7) Chol Ester | 657.6441 | C45H71D7O2 | 356.1 |
| 15:0-18:1(d7) DG | 587.5506 | C36H61D7O5 | 9.4 |
| 15:0-18:1(d7)-15:0 TG | 811.7646 | C51H89D7O6 | 57.3 |
| d18:1-18:1(d9) SM | 737.6397 | C41H72D9N2O6P | 30.9 |
| Sphingosine (C17) | 285.2668 | C17H35NO2 | 7.2 |
| Sphinganine (C17) | 287.2824 | C17H37NO2 | 7.3 |
| Ceramide (C12) | 481.4495 | C30H59NO3 | 12.3 |
| Ceramide (C25) | 663.6529 | C43H85NO3 | 16.7 |
| Sphingomyelin (C12) | 646.5050 | C35H71N2O6P | 16.0 |
| Glucosyl(β) C12 Ceramide | 643.5023 | C36H69NO8 | 16.5 |
| Lactosyl(β) C12 Ceramide | 805.5550 | C42H79NO13 | 21.0 |
| 18:1-16:0 OAHFA | 536.4805 | C34H64O4 | 50.0 |
| 18.1(d9)-26:0 WE | 655.7193 | C44H77D9O2 | 80.0 |