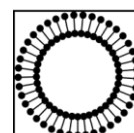
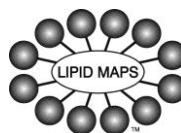


## Ceramide/Sphingoid Internal Standard Mix II

Cer/Sph Mixture II (Contains 9 compounds)

LIPIDMAPS™ Compound ID: RF0000000995


**Avanti**<sup>®</sup>  
POLAR LIPIDS, INC.

Storage: -20° C (Freezer)  
 Manufacture Date: July 28, 2015  
 Expiration Date: One year from date of receipt  
 Physical Form: Ethanol Solution (1ml per vial)  
 Lot Number: LM6005-LM40-112A  
 MLOT: 6449EAA112

## Certificate of Analysis

Component Name	LipidMAPS ID	Exact Mass (Neutral Form)	Molecular Formula (Neutral Form)	Concentration by LC/MS (µM)
C17 Sphingosine	LMSP01040002	285.27	C <sub>17</sub> H <sub>35</sub> NO <sub>2</sub>	23.4
C17 Sphinganine	LMSP01040003	287.28	C <sub>17</sub> H <sub>37</sub> NO <sub>2</sub>	23.8
C17 Sphingosine-1 Phosphate	LMSP01050007	365.23	C <sub>17</sub> H <sub>36</sub> NO <sub>5</sub> P	24.6
C17 Sphinganine-1-Phosphate	LMSP01050008	367.25	C <sub>17</sub> H <sub>38</sub> NO <sub>5</sub> P	25.4
C12 Sphingomyelin	LMSP03010002	646.51	C <sub>35</sub> H <sub>71</sub> N <sub>2</sub> O <sub>6</sub> P	23.9
C12 Ceramide	LMSP02010002	481.45	C <sub>30</sub> H <sub>59</sub> NO <sub>3</sub>	23.7
C12 Glucosyl(β) Ceramide	LMSP0501AA01	643.50	C <sub>36</sub> H <sub>69</sub> NO <sub>8</sub>	23.3
C12 Lactosyl(β) Ceramide	LMSP0501AB02	805.56	C <sub>42</sub> H <sub>79</sub> NO <sub>13</sub>	24.0
C12 Ceramide-1-Phosphate	LMSP02050001	561.42	C <sub>30</sub> H <sub>60</sub> NO <sub>6</sub> P	23.6

Approved by:

Avanti Polar Lipids, Inc. 700 Industrial Park Drive, Alabaster, AL 35007-9105, USA

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