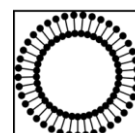
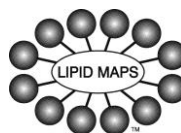


**Ceramide/Sphingoid Internal Standard Mix I**

Cer/Sph Mixture I (Contains 10 compounds)

LIPIDMAPS™ Compound ID: RF0000000785

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

Storage: -20° C (Freezer)  
 Manufacture Date: September 21, 2018  
 Expiration Date: One year from date of receipt  
 Physical Form: Ethanol Solution (1ml per vial)  
 Lot Number: LM6002-LM17-056A  
 MLOT: 6446EAA056

**Certificate of Analysis**

Component Name	LipidMAPS ID	Exact Mass (Neutral Form)	Molecular Formula (Neutral Form)	Concentration by LC/MS (µM)
<b>C17 Sphingosine</b>	LMSP01040002	285.27	C <sub>17</sub> H <sub>35</sub> NO <sub>2</sub>	24.9
<b>C17 Sphinganine</b>	LMSP01040003	287.28	C <sub>17</sub> H <sub>37</sub> NO <sub>2</sub>	24.9
<b>C17 Sphingosine-1 Phosphate</b>	LMSP01050007	365.23	C <sub>17</sub> H <sub>36</sub> NO <sub>5</sub> P	24.9
<b>C17 Sphinganine-1-Phosphate</b>	LMSP01050008	367.25	C <sub>17</sub> H <sub>38</sub> NO <sub>5</sub> P	24.8
<b>C12 Sphingomyelin</b>	LMSP03010002	646.51	C <sub>35</sub> H <sub>71</sub> N <sub>2</sub> O <sub>6</sub> P	25.8
<b>C12 Ceramide</b>	LMSP02010002	481.45	C <sub>30</sub> H <sub>59</sub> NO <sub>3</sub>	23.5
<b>C12 Glucosyl(β) Ceramide</b>	LMSP0501AA01	643.50	C <sub>36</sub> H <sub>69</sub> NO <sub>8</sub>	25.2
<b>C12 Lactosyl(β) Ceramide</b>	LMSP0501AB02	805.56	C <sub>42</sub> H <sub>79</sub> NO <sub>13</sub>	25.8
<b>C12 Ceramide-1-Phosphate</b>	LMSP02050001	561.42	C <sub>30</sub> H <sub>60</sub> NO <sub>6</sub> P	25.4
<b>C25 Ceramide</b>	LMSP02010013	663.65	C <sub>43</sub> H <sub>85</sub> NO <sub>3</sub>	26.0

Approved by:

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