Brain SM
Sphingomyelin (Brain, Porcine)
860062C-200mg

Molecular Weight  760.223 (average based on fatty acid distribution in product)
Physical State  Chloroform
Storage  -20 °C
Expiration Date  One year from date of receipt
M Lot Number  5870CNA130
Avanti Lot Number  860062C-200MG-A-130

<table>
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<tr>
<th>ANALYSIS</th>
<th>SPECIFICATION</th>
<th>RESULTS</th>
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<tr>
<td>Physical examination</td>
<td>Chloroform: Clear solution with no foreign matter.</td>
<td>Pass</td>
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| TLC                | >99% Purity
Ninhydrin: negative
Iodine: one major spot
Phosphorus: positive
Charring: positive
Water dip: one major spot | All Pass                      |
| UV Oxidation       | NMT 5% total all wavelengths                                                  | 0.10% total all wavelengths |
| FAME (GC/FID)      | Consistent with historical data (not specifications):                        | Consistent with historical data |
|                    | 16:0 = ~2%
18:0 = ~50%
20:0 = ~5%
22:0 = ~7%
24:0 = ~5%
24:1 = ~21%          |                               |
| Mass Spectroscopy  | [M+H]^+ = 731.61 ± 1 amu (predominant species)                               | [M+H]^+ = 731.9 amu (predominant species) |

Approved By:

[Signature]