Milk SM  
Sphingomyelin (Milk, Bovine)  
860063C-25mg

<table>
<thead>
<tr>
<th>Molecular Weight</th>
<th>785.034 (average based on fatty acid distribution in product)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical Formula</td>
<td></td>
</tr>
<tr>
<td>Physical State</td>
<td>Chloroform</td>
</tr>
<tr>
<td>Storage</td>
<td>-20°C</td>
</tr>
<tr>
<td>Expiration Date</td>
<td>One year from date of receipt</td>
</tr>
<tr>
<td>M Lot Number</td>
<td>5871CJA033</td>
</tr>
<tr>
<td>Avanti Lot Number</td>
<td>860063C-25MG-A-033</td>
</tr>
</tbody>
</table>

**ANALYSIS** | **SPECIFICATION** | **RESULTS** |
--- | --- | --- |
Physical examination | Chloroform: Clear solution with no foreign matter. | Pass |
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 | 0.32% Total |
FAME (GC/FID) | Consistent with historical data (not specifications):  
16:0 = ~16%  
22:0 = ~20%  
23:0 (AUC) = ~34%  
24:0 = ~21%  
24:1 = ~3% | Consistent with historical data |
Mass Spectroscopy | [M+H]+ of predominant species are 801.68 ± 1 amu, 787.62 ± 1 amu, and 703.57 ± 1 amu | [M+H]+ of predominant species are 801.7 amu, 787.7 amu, and 703.6 amu |

Approved By: [Signature]