

## DSPE-PEG(2000)-tri mannose

1,2-distearoyl-sn-glycero-3-phosphoethanolamine-N-[carboxy(polyethylene glycol)-2000]-N-trimannose, ammonium salt

880161P-10MG

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|                         |  |
|-------------------------|--|
| <b>Molecular Weight</b> | 3393.06 (average MW due to polydispersity of PEG)  |
| <b>Chemical Formula</b> | C <sub>155</sub> H <sub>304</sub> N <sub>3</sub> O <sub>72</sub> P (average MW due to polydispersity of PEG) |
| <b>Physical State</b>   | Powder   |
| <b>Storage</b>          | -20°C  |
| <b>Expiration Date</b>  | One year from date of receipt  |
| <b>M Lot Number</b>     | 7178PID010   |
| <b>Lot Number</b>       | 880161P-10MG-D-010   |

| ANALYSIS                                | SPECIFICATION   | RESULTS                   |
|---|---|---------------------------|
| Physical Examination                    | <b>Powder:</b> White solid which contains no foreign matter   | Pass                      |
| TLC                                     | >99% Purity<br>Ninhydrin: negative<br>Iodine: one major spot<br>Phosphorus: positive<br>Charring: positive<br>Water dip: one major spot | All Pass                  |
| Proton NMR                              | NMR spectrum consistent with structure  | Consistent with structure |
| Phosphorus NMR                          | NMR spectrum consistent with structure  | Consistent with structure |
| Average Molecular Weight (MW) by TOF-MS | Run and Report  | 3374.774                  |
| Polydispersity Index (PDI) by TOF-MS    | Run and Report  | 1.003                     |

Approved by:



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