

## DSPE-PEG(2000) Maleimide

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

880126P-50mg

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|                          |                                                                                                                  |
|--------------------------|------------------------------------------------------------------------------------------------------------------|
| <b>Molecular Weight</b>  | 2941.605 (average MW due to polydispersity of PEG)                                                               |
| <b>Chemical Formula</b>  | C <sub>139</sub> H <sub>271</sub> N <sub>4</sub> O <sub>57</sub> P (representative 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>      | 6288PKA061                                                                                                       |
| <b>Avanti Lot Number</b> | 880126-50MG-A-061                                                                                                |

| ANALYSIS                                | SPECIFICATION                                                                                                                                             | RESULTS                                                                                                                                       |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Physical Examination                    | Powder: White solid which contains no foreign matter                                                                                                      | Pass                                                                                                                                          |
| TLC<br>(4:1 Dichloromethane: Methanol)  | >99% Purity<br>Ninhydrin: negative<br>Iodine: one major spot<br>Phosphorus: positive<br>Charring: negative to faint positive<br>Water dip: one major spot | >99% Purity<br>Ninhydrin: negative<br>Iodine: one major spot<br>Phosphorus: positive<br>Charring: faint positive<br>Water dip: one major spot |
| Proton NMR                              | NMR spectrum consistent with structure                                                                                                                    | Consistent with structure                                                                                                                     |
| FAME (GC/FID)                           | NLT 99% 18:0 (AUC)                                                                                                                                        | 100% 18:0 (AUC)                                                                                                                               |
| HPLC-ELSD                               | NLT 99% (AUC)                                                                                                                                             | 99.4% (AUC)                                                                                                                                   |
| Average Molecular Weight (Mw) by TOF-MS | Run and Report                                                                                                                                            | 3037.649                                                                                                                                      |
| Polydispersity Index (PDI) by TOF-MS    | Run and Report                                                                                                                                            | 1.003                                                                                                                                         |

Approved by:



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