

## DSPE-PEG(2000) Maleimide

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

880126C-50mg

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|                          |                                                    |
|--------------------------|----------------------------------------------------|
| <b>Molecular Weight</b>  | 2941.605 (average MW due to polydispersity of PEG) |
| <b>Physical State</b>    | Chloroform                                         |
| <b>Storage</b>           | -20°C                                              |
| <b>Expiration Date</b>   | One year from date of receipt                      |
| <b>M Lot Number</b>      | 6288CKA061                                         |
| <b>Avanti Lot Number</b> | 880126C-50MG-A-061                                 |

| ANALYSIS                                   | SPECIFICATION                                                                                                                                             | RESULTS                   |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| Physical Examination                       | <b>Chloroform:</b> Clear solution 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 | Pass                      |
| FAME (GC/FID)                              | NLT 99% 18:0 (AUC)                                                                                                                                        | 100% 18:0 (AUC)           |
| HPLC-ELSD                                  | NLT 99% (AUC)                                                                                                                                             | 99.4% (AUC)               |
| Proton NMR                                 | NMR spectrum consistent with structure                                                                                                                    | Consistent with structure |
| Average Molecular Weight (Mw)<br>by TOF MS | Run and Report                                                                                                                                            | 3037.649                  |
| Polydispersity Index (PDI)<br>by TOF-MS    | Run and Report                                                                                                                                            | 1.003                     |

Approved by:



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