

## 18:1 Liss Rhod PE

1,2-dioleoyl-sn-glycero-3-phosphoethanolamine-N-(lissamine rhodamine B sulfonyl) (ammonium salt)

810150C-5MG

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|                          |                                                                                 |
|--------------------------|---------------------------------------------------------------------------------|
| <b>Molecular Weight</b>  | 1301.715                                                                        |
| <b>Chemical Formula</b>  | C <sub>68</sub> H <sub>109</sub> N <sub>4</sub> O <sub>14</sub> PS <sub>2</sub> |
| <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>      | 5340CHA093                                                                      |
| <b>Avanti Lot Number</b> | 810150C-5MG-A-093                                                               |

| ANALYSIS                      | SPECIFICATION                                                                                                    | RESULTS                                                        |
|-------------------------------|------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| Physical Examination          | <b>Chloroform:</b> Pink to dark pink solution with no foreign matter                                             | Pass                                                           |
| TLC                           | >99% Purity<br>UV: one major spot<br>Iodine: one major spot<br>Phosphorus: positive<br>Water dip: one major spot | All Pass                                                       |
| Proton NMR                    | NMR spectrum consistent with structure                                                                           | Consistent with structure                                      |
| Excitation/Emission by UV/Vis | $\lambda_{Ex\ max} \approx 560\ nm$<br>$\lambda_{Em\ max} \approx 583\ nm$                                       | $\lambda_{Ex\ max} = 561\ nm$<br>$\lambda_{Em\ max} = 579\ nm$ |
| Mass Spectroscopy             | $[M-NH_4]^+ = 1283.7 \pm 1\ amu$                                                                                 | $[M-NH_4]^+ = 1282.7\ amu$                                     |

Approved By:



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