

**18:1 Cy5 PE**

**1,2-dioleoyl-sn-glycero-3-phosphoethanolamine-N-(Cyanine 5)**

**810335C-1mg**

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|                          |                                                                    |
|--------------------------|--------------------------------------------------------------------|
| <b>Molecular Weight</b>  | 1262.17                                                            |
| <b>Chemical Formula</b>  | C <sub>73</sub> H <sub>118</sub> ClN <sub>4</sub> O <sub>9</sub> P |
| <b>Physical State</b>    | Chloroform                                                         |
| <b>Storage</b>           | -20°C                                                              |
| <b>Expiration Date</b>   | Three months from date of receipt                                  |
| <b>M Lot Number</b>      | 5441CGB013                                                         |
| <b>Avanti Lot Number</b> | 810335C-1MG-B-013                                                  |

| ANALYSIS                                     | SPECIFICATION                                                                                                                                                 | RESULTS                                              |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| Physical Examination                         | <b>Chloroform:</b> Blue solution with no foreign matter                                                                                                       | Pass                                                 |
| TLC<br>(80:20:2 Chloroform: Methanol: Water) | >99% Purity<br>UV: one major spot<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                            |
| NBD/Liss Rhod Concentration                  | Run and Report                                                                                                                                                | 3.08 mg/mL                                           |
| Mass Spectroscopy                            | [M-Cl-NH <sub>4</sub> +H] <sup>+</sup> = 1210.17 ± 1 amu                                                                                                      | [M-Cl-NH <sub>4</sub> +H] <sup>+</sup> = 1209.24 amu |

Approved By: *Anderson Thomas*

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