

## DOTMA

1,2-di-O-octadecenyl-3-trimethylammonium propane (chloride salt)

890898P-25mg

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|                          |                                                   |
|--------------------------|---------------------------------------------------|
| <b>Molecular Weight</b>  | 670.575                                           |
| <b>Chemical Formula</b>  | C <sub>42</sub> H <sub>84</sub> ClNO <sub>2</sub> |
| <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>      | 6364PJA038                                        |
| <b>Avanti Lot Number</b> | 890898P-25MG-A-038                                |

| ANALYSIS                          | SPECIFICATION                                                                                                                           | RESULTS                         |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| Physical Examination              | Powder: White solid which contains no foreign matter                                                                                    | Pass                            |
| TLC<br>(8:2 Chloroform: Methanol) | >99% Purity<br>Ninhydrin: negative<br>Iodine: one major spot<br>Phosphorus: negative<br>Charring: positive<br>Water dip: one major spot | All Pass                        |
| Proton NMR                        | NMR spectrum consistent with structure                                                                                                  | Consistent with structure       |
| Mass Spectroscopy                 | [M-Cl] <sup>+</sup> = 635.6 ± 1 amu                                                                                                     | [M-Cl] <sup>+</sup> = 634.6 amu |

Approved By:



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