

**18:1 TAP (DOTAP)**

1,2-dioleoyl-3-trimethylammonium-propane (chloride salt)

**890890P-200mg**

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|                          |                                                    |
|--------------------------|----------------------------------------------------|
| <b>Molecular Weight</b>  | 698.542                                            |
| <b>Chemical Formula</b>  | C <sub>42</sub> H <sub>80</sub> NO <sub>4</sub> Cl |
| <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>      | 6361PNJ179                                         |
| <b>Avanti Lot Number</b> | 890890P-200MG-J-179                                |

| ANALYSIS             | SPECIFICATION                                                                                                                           | RESULTS                                          |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| Physical Examination | <b>Powder:</b> White solid which contains no foreign matter                                                                             | Pass                                             |
| TLC                  | >99% Purity<br>Ninhydrin: negative<br>Iodine: one major spot<br>Phosphorus: negative<br>Charring: positive<br>Water dip: one major spot | All Pass                                         |
| FAME (GC/FID)        | NLT 99% 18:1 (AUC)                                                                                                                      | 100% (AUC)                                       |
| HPLC-ELSD            | NLT 99% Purity<br>NMT 1% Impurities<br>Retention Time Matches Standard                                                                  | 100% Purity<br>None Detected<br>Matches Standard |
| Proton NMR           | NMR spectrum consistent with reference structure                                                                                        | Consistent with structure                        |
| Mass Spectroscopy    | [M-Cl] <sup>-</sup> = 663.112 ± 1 amu                                                                                                   | [M-Cl] <sup>-</sup> = 662.8 amu                  |



Approved By:

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