

**18:1 TAP (DOTAP)**

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

**890890P-500mg****Page 1 of 1**

**Molecular Weight** 698.542  
**Chemical Formula** C<sub>42</sub>H<sub>80</sub>NO<sub>4</sub>Cl  
**Physical State** Powder  
**Storage** -20°C  
**Expiration Date** One year from date of receipt  
**M Lot Number** 6361PPH180  
**Avanti Lot Number** 890890P-500MG-H-180

| 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)                                                                                                                      | 99.7% (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> = 662.6 amu                  |

Approved By:



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