

**18:1 TAP (DOTAP)**

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

**890890P-500mg**

Page 1 of 1

|                          |  |
|--------------------------|--|
| <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>      | 6361PPA165   |
| <b>Avanti Lot Number</b> | 890890P-500MG-A-165                                |

| 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)  | 99.8% 18:1 (AUC)                |
| HPLC-ELSD            | NLT 99% Purity  | 100% (AUC)                      |
| Proton NMR           | NMR spectrum consistent with structure  | Consistent with structure       |
| Mass Spectroscopy    | [M-Cl] <sup>-</sup> = 663.112 ± 1 amu   | [M-Cl] <sup>-</sup> = 662.4 amu |

Approved by:

