

18:1 TAP (DOTAP)

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

890890P-25mg

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|--------------------------|--|
| Molecular Weight | 698.542 |
| Chemical Formula | C ₄₂ H ₈₀ NO ₄ Cl |
| Physical State | Powder |
| Storage | -20°C |
| Expiration Date | One year from date of receipt |
| M Lot Number | 6361PJA179 |
| Avanti Lot Number | 890890P-25MG-A-179 |

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

 Approved By: *Anderson Thomas*

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