

**DSPE-PEG(2000) Carboxylic Acid**

1,2-distearoyl-sn-glycero-3-phosphoethanolamine-N-[carboxy(polyethylene glycol)-2000] (sodium salt)

**880135P-500mg**

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<b>Molecular Weight</b>	2780.38 (average MW due to polydispersity of PEG)
<b>Chemical Formula</b>	C <sub>131</sub> H <sub>257</sub> NNaO <sub>55</sub> P (average formula due to polydispersity of PEG)
<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>	6296PPA016
<b>Lot Number</b>	880135P-500MG-A-016

ANALYSIS	SPECIFICATION	RESULTS
Physical Examination	<b>Powder:</b> White solid which contains no foreign matter	Pass
TLC (80:20:2 Chloroform: Methanol: Ammonium Hydroxide)	NLT 98% Purity Ninhydrin: negative Iodine: one major spot Phosphorus: positive Charring: negative Water dip: one major spot	All Pass
HPLC-ELSD	NLT 98% (AUC)	98.4% DSPEPEG2KCOOH (AUC) 1.7% MPEG2K
FAME (GC/FID)	NLT 99% 18:0 (AUC)	99.3% (AUC)
Proton NMR	NMR spectrum consistent with structure	Consistent with structure
Molecular Weight (Mw) by QTOF-MS	Run and Report	2808.552
Polydispersity Index (PDI) by QTOF-MS	Run and Report	1.003

 Approved by: *Meredith Bayood*

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