

## DSPE-PEG(2000) Carboxylic Acid

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

880135P-10mg

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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>	6296PID015
<b>Lot Number</b>	880135P-10MG-D-015

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% DSPEPEG2KCOOH (AUC) 2% MPEG2K
FAME (GC/FID)	NLT 99% 18:0 (AUC)	100% (AUC)
Proton NMR	NMR spectrum consistent with structure	Consistent with structure
Molecular Weight (Mw) by QTOF-MS	Run and Report	3070.720
Polydispersity Index (PDI) by QTOF-MS	Run and Report	1.002

Approved by:



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