

## DSPE-PEG(2000) Carboxy NHS

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

880138P-25mg

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**Molecular Weight** 2877.49 (average MW due to polydispersity of PEG)  
**Chemical Formula** C<sub>135</sub>H<sub>260</sub>N<sub>2</sub>NaO<sub>57</sub>P  
**Physical State** Powder  
**Storage** -20°C  
**Expiration Date** One year from date of receipt  
**M Lot Number** 6867PJC012  
**Avanti Lot Number** 880138P-25MG-C-012

ANALYSIS	SPECIFICATION	RESULTS
Physical Examination	<b>Powder:</b> White solid which contains no foreign matter	Pass
TLC	>99% Purity Ninhydrin spray: negative Iodine: one major spot Phosphorus: positive Charring: negative Water dip: one major spot	>99% Purity Ninhydrin spray: negative Iodine: two major spots Phosphorus: Two major + Charring: negative Water dip: Two major spots
Proton NMR (Acetonitrile-d3)	NMR spectrum consistent with structure	Consistent with structure
Avg Molecular Weight (Mw) by TOF-MS	Run and Report	Run and Report
Polydispersity Index (PDI) by TOF-MS	Run and Report	Run and Report

Note: Product is unstable in methanol and water

Approved By: *Andriana Thomas*

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