

**ALC-0159**

2-[(polyethylene glycol)-2000]-N,N-ditetradecylacetamide

**880155P-25mg**
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<b>Physical State</b>	Powder
<b>Chemical Formula</b>	C <sub>30</sub> H <sub>60</sub> NO(C <sub>2</sub> H <sub>4</sub> O) <sub>n</sub> OCH <sub>3</sub> , n=45-50
<b>Molecular Weight</b>	~2400-2600
<b>Storage</b>	-20°C
<b>Expiration Date</b>	One year from date of receipt
<b>M Lot Number</b>	7050PJB010
<b>Avanti Lot Number</b>	880155P-25MG-B-010

ANALYSIS	SPECIFICATION	RESULTS
Physical Examination	<b>Powder:</b> white solid which contains no foreign matter	Pass
Assay by UHPLC-CAD	85-115% Recovery	99% recovery
Impurities by UHPLC-CAD	NLT 95.0% ALC0159 NMT 5.0% sum of all impurities	97.5% ALC0159 2.5% total impurities
Karl Fischer Water Titration	NMT 5.0%	0.1%
Residual Solvents by GC-FID	NMT 720 ppm Tetrahydrofuran NMT 5000 ppm Diethyl ether	None Detected None Detected
Residual Solvents by GC-FID	NMT 3000 ppm Methanol NMT 5000 ppm Ethanol NMT 5000 ppm Isopropanol NMT 60 ppm Chloroform NMT 3880 ppm Cyclohexane NMT 890 ppm Toluene NMT 290 ppm Hexane NMT 3500 ppm tert-Butanol NMT 5000 ppm Total Residual Solvents	None Detected None Detected None Detected None Detected None Detected None Detected None Detected None Detected None Detected
Elemental Impurities by ICP-MS	NMT 0.2 ppm Cd NMT 0.5 ppm Pb NMT 1.5 ppm As NMT 0.3 ppm Hg NMT 0.5 ppm Co NMT 1 ppm V NMT 2 ppm Ni NMT 25 ppm Li NMT 9 ppm Sb NMT 30 ppm Cu	BLOQ BLOQ BLOQ BLOQ BLOQ BLOQ BLOQ BLOQ BLOQ BLOQ
FTIR	Consistent with reference spectrum	Consistent with reference spectrum

 Approved By: *Anderson Thomas*

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