

B-48576
V-166328

LDC

Louis Dreyfus Company

Certificate of Analysis
USP Food Grade Glycerin
Kosher & Halal

CUSTOMER _____
PO # _____
CODE # _____
LOT # 466135377279
BOL # _____

BMS Po# 741388

Lot Number: 17100-365

Manufactured Date: 9/29/17

Property	Method	Specifications	Results
Appearance	USP	Transparent (free of particle and colorless)	Pass
Purity by specific gravity	USP	Min. 99.7%	99.75
Specific Gravity @ 25 deg C	USP	Min. 1.2613	1.2614
Identification A by FTIR	USP	Pass	Pass
Identification B	USP	Pass	Pass
Diethylene Glycol	USP	<0.10%	<0.10
Ethylene Glycol	USP	<0.10%	<0.10
Identity C (Confirmation of Glycerin by GC)	USP	Pass	Pass
Related Compounds - Individual	USP	Max 0.10%	<0.1
Related Compounds - Total	USP	Max 1.0%	<1.0
Assay (Anhydrous Basis)	USP	99.00% - 101.00%	99.22
Sulfate	USP	Max 20 ppm	<20
Chloride	USP	Max 10 ppm	<10
Chlorinated Compounds	USP	Max 30 ppm	<30
Fatty Acid & Ester	USP	Max 0.30 mL consumed	0.18
Heavy Metals (as Pb which is lead)	USP	Max 5 ppm	<5
Lead	USP	Max 1 ppm	<1
Residue on Ignition	USP	Max 0.01%	<0.01
Color, APHA	USP	Max 10	1
Readily Carbonizable Substances		Pass	Pass
Water	USP	Max 0.30%	0.0747
Odor		Pass	Pass
Residual Solvents	USP	Pass	Pass

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Sydney Geisler - Lab Technician
Digitally signed by Sydney Geisler - Lab Technician
Date: 2017.09.30 09:31:19 -04'00'