

DGDG

Digalactosyldiacylglycerol (Plant)

840524P-5mg

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Molecular Weight	926.767 (average based on fatty acid distribution in product)
Chemical Formula	C ₅₁ H ₈₄ O ₁₅
Physical State	Powder
Storage	-20°C
Expiration Date	One year from date of receipt
M Lot Number	5557PHF025
Avanti Lot Number	840524P-5MG-F-025

ANALYSIS	SPECIFICATION	RESULTS
Physical Examination	Powder: White solid which contains no foreign matter	Pass
TLC	>99% Purity Ninhydrin spray: negative Iodine: one major spot Phosphorus: negative Charring: positive Water dip: one major spot	All Pass
Proton NMR	NMR spectrum consistent with structure	Consistent with structure
Mass Spectroscopy	[M+NH ₄] ⁺ = 955.000 ± 1 amu (predominant species)	[M+NH ₄] ⁺ = 956.1 amu
FAME (GC/FID)	Consistent with historical data 16:3 = ~20% 18:2 = ~10% 18:3 = ~60%	Consistent with historical data
UV Oxidation	NMT 10% total all wavelengths	2.40% total
HPLC-ELSD	NLT 99% (AUC)	100% AUC

 Approved By: *Andriana Thomas*

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