

MGDG

Monogalactosyldiacylglycerol (Plant)

840523

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Molecular Weight 752.369 (average based on fatty acid distribution)
Chemical Formula C₄₅H₇₄O₁₀
Physical State Powder
Storage -20°C
Expiration Date Three from date of receipt
M Lot Number 5556PHA024
Avanti Lot Number 840523P-5MG-A-024

ANALYSIS	SPECIFICATION	RESULTS
Physical Examination	Powder: White solid which contains no foreign matter	Pass
TLC (9:1 Chloroform: Methanol)	>99% Purity Ninhydrin: negative Iodine: one major spot Phosphorus: negative Charring: positive Water dip: one major spot	All Pass
UV Oxidation	NMT 10% total all wavelengths	2.35% total
HPLC-ELSD	NLT 99% (AUC)	100% (AUC)
FAME (GC/FID)	Consistent with historical data 16:3 = ~35% 18:3 = ~60%	Consistent with historical data
Proton NMR	NMR spectrum consistent with structure	Consistent with structure
Mass Spectroscopy	[M+NH ₄] ⁺ = 765.000 ± 1 amu (predominant species)	[M+NH ₄] ⁺ = 764.79 amu

Approved By:



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