

MGDG

Monogalactosyldiacylglycerol (Plant)

840523-5mg

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Molecular Weight	752.369 (average based on fatty acid distribution in product)
Physical State	Powder
Storage	-20°C
Expiration Date	Three months from date of receipt
M Lot Number	5556PHD018
Avanti Lot Number	840523P-5MG-D-018

ANALYSIS	SPECIFICATION	SOP
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	8.43% total all wavelengths
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	Pass
Mass Spectroscopy	$[M+NH_4]^+ = 765.000 \pm 1$ amu (predominant species)	$[M+NH_4]^+ = 764.9$ amu (predominant species)

Approved by:

