

**MGDG**
**Monogalactosyldiacylglycerol (Plant)**
**840523-5mg**
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<b>Molecular Weight</b>	752.369 (average based on fatty acid distribution in product)
<b>Physical State</b>	Powder
<b>Storage</b>	-20°C
<b>Expiration Date</b>	Three months from date of receipt
<b>M Lot Number</b>	5556PHB018
<b>Avanti Lot Number</b>	840523P-5MG-B-018

ANALYSIS	SPECIFICATION	SOP
Physical examination	<b>Powder:</b> 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:

