

**MGDG**

Monogalactosyldiacylglycerol (Plant)

**840523P-10mg**
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<b>Molecular Weight</b>	775.06 (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>	5556P11029
<b>Avanti Lot Number</b>	840523P-10MG-I-029

ANALYSIS	SPECIFICATION	Results
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	>99% Purity Ninhydrin: negative Iodine: one major spot Phosphorus: negative Charring: positive Water dip: one major spot
UV Oxidation	NMT 10% total all wavelengths	1.97% total
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
HPLC-ELSD	NLT 99% (AUC)	100% (AUC)
Mass Spectroscopy	[M+NH <sub>4</sub> ] <sup>+</sup> = 765.000 ± 1 amu (predominant species)	[M+NH <sub>4</sub> ] <sup>+</sup> = 764.6 amu (predominant species)

 Approved by: *Anderson Thomas*

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