

**MGDG**

Monogalactosyldiacylglycerol (Plant)

**840523P-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>	5556PHA023
<b>Avanti Lot Number</b>	840523P-5MG-A-023

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	1% total all wavelengths
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	$[M+NH_4]^+ = 765.000 \pm 1$ amu (predominant species)	$[M+NH_4]^+ = 764.6$ amu (predominant species)

Approved by: 

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