

MGDG

Monogalactosyldiacylglycerol (Plant)

840523P-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 | 5556PHE029 |
| Avanti Lot Number | 840523P-5MG-E-029 |

| ANALYSIS | SPECIFICATION | Results |
|-----------------------------------|---|---|
| Physical Examination | Powder: Yellow 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 ₄] ⁺ = 765.000 ± 1 amu (predominant species) | [M+NH ₄] ⁺ = 764.6 amu (predominant species) |

 Approved by: *Anderson Thomas*

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