

## MGDG

Monogalactosyldiacylglycerol (Plant)

840523P-5mg

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|                          |                                                                       |
|--------------------------|-----------------------------------------------------------------------|
| <b>Molecular Weight</b>  | 752.369 (average based on fatty acid distribution in product)         |
| <b>Chemical Formula</b>  | C <sub>45</sub> H <sub>74</sub> O <sub>10</sub> (predominant species) |
| <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>      | 5556PHA030                                                            |
| <b>Avanti Lot Number</b> | 840523P-5MG-A-030                                                     |

| ANALYSIS                          | SPECIFICATION                                                                                                                           | Results                                                                                                                                 |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Physical Examination              | Powder: White solid which contains no foreign matter                                                                                    | Pass                                                                                                                                    |
| TLC<br>(9:1 Chloroform: Methanol) | >99% Purity<br>Ninhydrin: negative<br>Iodine: one major spot<br>Phosphorus: negative<br>Charring: positive<br>Water dip: one major spot | >99% Purity<br>Ninhydrin: negative<br>Iodine: one major spot<br>Phosphorus: negative<br>Charring: positive<br>Water dip: one major spot |
| Proton NMR                        | NMR spectrum consistent with structure                                                                                                  | Consistent with structure                                                                                                               |
| FAME (GC/FID)                     | Consistent with historical data<br>16:3 = ~35%<br>18:3 = ~60%                                                                           | Consistent with historical data                                                                                                         |
| HPLC-ELSD                         | NLT 99% (AUC)                                                                                                                           | 99.9% (AUC)                                                                                                                             |
| UV Oxidation                      | NMT 10% total all wavelengths                                                                                                           | 7.14% total                                                                                                                             |
| Mass Spectroscopy                 | [M+NH <sub>4</sub> ] <sup>+</sup> = 765.0 ± 1 amu<br>(predominant species)                                                              | [M+NH <sub>4</sub> ] <sup>+</sup> = 764.5 amu<br>(predominant species)                                                                  |

Approved by:



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