

**Mal(12.1)**

tridecan-2-yloxy-β-D-maltoside

**850529P-1g**

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|                          |                                                 |
|--------------------------|-------------------------------------------------|
| <b>Molecular Weight</b>  | 524.642                                         |
| <b>Chemical Formula</b>  | C <sub>25</sub> H <sub>48</sub> O <sub>11</sub> |
| <b>Physical State</b>    | Powder                                          |
| <b>Storage</b>           | -20 °C                                          |
| <b>Expiration Date</b>   | One year from date of receipt                   |
| <b>M Lot Number</b>      | 5708PQA016                                      |
| <b>Avanti Lot Number</b> | 850529P-1G-A-016                                |

| ANALYSIS                                     | SPECIFICATION                                                                                                                           | RESULTS                                       |
|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|
| Physical examination                         | <b>Powder:</b> White solid which contains no foreign matter.                                                                            | Pass                                          |
| TLC<br>(80:20:2 Chloroform: Methanol: Water) | >99% Purity<br>Ninhydrin: negative<br>Iodine: one major spot<br>Phosphorus: negative<br>Charring: positive<br>Water dip: one major spot | All pass                                      |
| Proton NMR                                   | NMR spectrum consistent with structure                                                                                                  | Consistent with structure                     |
| Mass Spectroscopy                            | [M+NH <sub>4</sub> ] <sup>+</sup> = 542.642 ± 1 amu                                                                                     | [M+NH <sub>4</sub> ] <sup>+</sup> = 542.4 amu |

Approved By:

