

## Ganglioside GD1a

Disialoganglioside-GD1a (porcine brain, diammonium salt)

860055P-1mg

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|                          |                                                                                   |
|--------------------------|-----------------------------------------------------------------------------------|
| <b>Molecular weight</b>  | 1872.14 (based on representative structure; may not reflect exact MW of compound) |
| <b>Chemical formula</b>  | C <sub>84</sub> H <sub>154</sub> N <sub>6</sub> O <sub>39</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>      | 6460PGB010                                                                        |
| <b>Avanti Lot Number</b> | 860055P-1MG-B-010                                                                 |

| ANALYSIS                                                   | SPECIFICATION                                                                                                                                 | RESULTS                                          |
|------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| Physical Examination                                       | <b>Powder:</b> White solid which contains no foreign matter                                                                                   | Pass                                             |
| TLC<br>(5:4:1 Chloroform:Methanol:15mM MgCl <sub>2</sub> ) | >99% Purity<br>Ninhydrin spray: 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-2NH <sub>4</sub> ] <sup>2-</sup> = 918.07 ± 1 amu<br>(predominant species)                                                                 | [M-2NH <sub>4</sub> ] <sup>2-</sup> = 917.51 amu |

Approved By:

