

## Cholesteryl PEG2000 Biotin

Cholesteryl [biotinyl (polyethylene glycol)-2000] carbamate

880257P-25mg

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|                          |                                                                                                                 |
|--------------------------|-----------------------------------------------------------------------------------------------------------------|
| <b>Molecular Weight</b>  | 2637.38 (average MW due to polydispersity of PEG)                                                               |
| <b>Chemical Formula</b>  | C <sub>128</sub> H <sub>42</sub> N <sub>4</sub> O <sub>48</sub> S (representative due to polydispersity of PEG) |
| <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>      | 7303PJA010                                                                                                      |
| <b>Avanti Lot Number</b> | 880257P-25MG-A-010                                                                                              |

| ANALYSIS                                | SPECIFICATION                                                                                                                                 | RESULTS                                                                                                                                       |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Physical Examination                    | Powder: White solid which contains no foreign matter                                                                                          | Pass                                                                                                                                          |
| TLC<br>(85:15 Chloroform: Methanol)     | >99% Purity<br>Ninhydrin spray: negative<br>Iodine: one major spot<br>Phosphorus: negative<br>Charring: positive<br>Water dip: one major spot | >99% Purity<br>Ninhydrin spray: 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                                                                                                                     |
| Average Molecular Weight (MW) by TOF-MS | Run and Report                                                                                                                                | 2745.613                                                                                                                                      |
| Polydispersity (PDI) index by TOF-MS    | Run and Report                                                                                                                                | 1.006                                                                                                                                         |

Approved By:



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