

## 18:1-12:0 Biotin PIP3

1-oleoyl-2-[12-biotinyl(aminododecanoyl)]-sn-glycero-3-phosphoinositol-3,4,5-trisphosphate (sodium salt)

860568P-100µg

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|                          |                                                                                                 |
|--------------------------|-------------------------------------------------------------------------------------------------|
| <b>Molecular Weight</b>  | 1350.14                                                                                         |
| <b>Chemical Formula</b>  | C <sub>49</sub> H <sub>87</sub> N <sub>3</sub> O <sub>24</sub> P <sub>4</sub> Na <sub>4</sub> S |
| <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>      | 6012PDC012                                                                                      |
| <b>Avanti Lot Number</b> | 860568P-100UG-C-012                                                                             |

| ANALYSIS                                                                     | SPECIFICATION                                                                                                                           | RESULTS                              |
|------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| Physical examination                                                         | <b>Powder:</b> White solid which contains no foreign matter.                                                                            | Pass                                 |
| TLC<br>(45:35:7.7:2.3 Chloroform:<br>Methanol: Water: Ammonium<br>Hydroxide) | >99% Purity<br>Ninhydrin: negative<br>Iodine: one major spot<br>Phosphorus: positive<br>Charring: positive<br>Water dip: one major spot | All Pass                             |
| Proton NMR                                                                   | NMR spectrum consistent with structure                                                                                                  | Pass                                 |
| Phosphorus NMR                                                               | NMR spectrum consistent with structure                                                                                                  | Pass                                 |
| Mass Spectroscopy                                                            | [M-4Na+2H] <sup>2-</sup> = 630.11 ± 1 amu                                                                                               | [M-4Na+2H] <sup>2-</sup> = 629.7 amu |

Approved by:

