

**18:1 Cardioliipin**

1',3'-bis[1,2-dioleoyl-sn-glycero-3-phospho]-sn-glycerol (sodium salt)

**710335C-200mg**

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|                          |   |
|--------------------------|---|
| <b>Molecular Weight</b>  | 1501.959  |
| <b>Chemical Formula</b>  | C <sub>81</sub> H <sub>148</sub> O <sub>17</sub> P <sub>2</sub> Na <sub>2</sub> |
| <b>Physical State</b>    | Chloroform  |
| <b>Storage</b>           | -20°C   |
| <b>Expiration Date</b>   | One year from date of receipt   |
| <b>M Lot Number</b>      | 5231CNA060  |
| <b>Avanti Lot Number</b> | 710335C-200MG-A-060   |

| ANALYSIS             | SPECIFICATION   | RESULTS                           |
|----------------------|---|-----------------------------------|
| Physical Examination | <b>Chloroform:</b> Clear solution with no foreign matter  | Pass                              |
| TLC                  | >99% Purity<br>Ninhydrin: negative<br>Iodine: one major spot<br>Phosphorus: positive<br>Charring: positive<br>Water dip: one major spot | All Pass                          |
| FAME (GC/FID)        | NLT 99% 18:1 (AUC)  | 100% (AUC)                        |
| Calcium (ICP/MS)     | NMT 500 ppm   | 62 ppm                            |
| Mass Spectroscopy    | [M-2Na] <sup>2-</sup> = 727.980 ± 1 amu   | [M-2Na] <sup>2-</sup> = 728.0 amu |
| Proton NMR           | NMR spectrum consistent with structure  | Consistent with structure         |



Approved by:

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