

**Heart CA**

Cardiolipin (Heart, Bovine) (sodium salt)

**840012P-25mg**
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|                          |  |
|--------------------------|--|
| <b>Molecular Weight</b>  | 1493.895 (average based on fatty acid distribution in product) |
| <b>Physical State</b>    | Powder   |
| <b>Storage</b>           | -20°C  |
| <b>Expiration Date</b>   | Three months from date of receipt                              |
| <b>M Lot Number</b>      | 5484PJG539   |
| <b>Avanti Lot Number</b> | 840012P-25MG-G-539   |

| ANALYSIS             | SPECIFICATION  | RESULTS  |
|----------------------|--|--|
| Physical Examination | <b>Powder:</b> White solid which contains 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)        | Consistent with historical data<br>18:1 = ~5%<br>18:2 = ~90%   | Consistent with historical data                          |
| UV Oxidation         | NMT 5% total all wavelengths   | 5% total   |
| Calcium (ICP/MS)     | NMT 500ppm   | None Detected  |
| Mass Spectroscopy    | Exact Mass: $[M-2Na+H]^+$ = 1447.94 ± 1 amu;<br>$[M-2Na]^{2-}$ = 723.47 ± 1 amu<br>or<br>Molecular Weight: $[M-2Na+H]^+$ = 1448.92 ± 1 amu;<br>$[M-2Na]^{2-}$ = 723.95 ± 1 amu | $[M-2Na+H]^+$ = 1448.5 amu<br>$[M-2Na]^{2-}$ = 724.6 amu |

Approved By:



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