Heart CA  
Cardiolipin (Heart, Bovine) (sodium salt)  
840012P-CONF

<table>
<thead>
<tr>
<th>Physical Examination</th>
<th>Powder: White solid which contains no foreign matter</th>
<th>Pass</th>
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</table>
| TLC                  | >99% Purity  
Ninhydrin: negative  
Iodine: one major spot  
Phosphorus: positive  
Charring: positive  
Water dip: one major spot | All Pass |
| FAME (GC/FID)        | Consistent with historical data  
18:1 = ~5%  
18:2 = ~90% | Consistent with historical data |
| UV Oxidation         | NMT 5% total all wavelengths | 0.72% total |
| Calcium (ICP/MS)     | NMT 500 ppm | None Detected |
| Mass Spectroscopy    | Exact Mass: [M-2Na+H] = 1447.94 ± 1 amu; [M-2Na]^2 = 723.47 ± 1 amu or Molecular Weight: [M-2Na+H] = 1448.92 ± 1 amu; [M-2Na]^2 = 723.95 ± 1 amu | [M-2Na+H] = 1447.9 amu; [M-2Na]^2 = 723.4 amu |

Approved By: