Heart CA
Cardiolipin (Heart, Bovine) (sodium salt)

840012P-100mg

<table>
<thead>
<tr>
<th>Physical Examination</th>
<th>Specification</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Powder: White solid which contains no foreign matter</td>
<td>Pass</td>
<td></td>
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</tbody>
</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 | 5% 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]⁻ = 1448.7 amu  
[M-2Na]²⁻ = 724.0 amu |

Approved By: 

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