

Heart CA

Cardiolipin (Heart, Bovine) (sodium salt)

840012P-100mg

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Molecular Weight	1494.319 (average based on fatty acid distribution in product)
Physical State	Powder
Storage	-20°C
Expiration Date	Three months from date of receipt
M Lot Number	5484PLC554
Avanti Lot Number	840012P-100MG-C-554

ANALYSIS	SPECIFICATION	RESULTS
Physical Examination	Powder: White solid which contains no foreign matter	Pass
TLC	>99% Purity Ninhydrin: negative Iodine: one major spot Phosphorus: positive Charring: positive Water dip: one major spot	>99% Purity Ninhydrin: negative Iodine: one major spot Phosphorus: positive Charring: positive Water dip: one major spot
Proton NMR	Spectrum consistent with structure	Spectrum consistent with structure
FAME (GC/FID)	Consistent with historical data 18:1 = ~5% 18:2 = ~90%	Consistent with historical data
UV Oxidation	NMT 5% total all wavelengths	1% total
Calcium (ICP/MS)	NMT 500 ppm	BLOQ
Mass Spectroscopy	Exact Mass: $[M-2Na+H]^+$ = 1447.9 ± 1 amu; $[M-2Na]^{2-}$ = 723.5 ± 1 amu or Molecular Weight: $[M-2Na+H]^+$ = 1448.9 ± 1 amu; $[M-2Na]^{2-}$ = 724.0 ± 1 amu	$[M-2Na]^{2-}$ = 724.1 amu $[M-2Na+H]^+$ = 1448.5 amu

Approved By:



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