

Heart CA

Cardiolipin (Heart, Bovine) (sodium salt)

840012C-50MG

Page 1 of 1

Molecular Weight	1494.319 (average based on fatty acid distribution in product)
Physical State	Chloroform
Storage	-20°C
Expiration Date	Three months from date of receipt
M Lot Number	5484CKA554
Avanti Lot Number	840012C-50MG-A-554

ANALYSIS	SPECIFICATION	RESULTS
Physical Examination	Chloroform: Clear solution with 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	0.94% total
Calcium (ICP/MS)	NMT 500 ppm	11 ppm
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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