

Brain SM

Sphingomyelin (Brain, Porcine)

860062P-1g
Page 1 of 1

Molecular Weight	760.223 (average based on fatty acid distribution in product)
Physical State	Powder
Storage	-20°C
Expiration Date	One year from date of receipt
M Lot Number	5870PQA136
Avanti Lot Number	860062P-1G-A-136

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	All Pass
FAME (GC/FID)	Consistent with historical data (not specifications): 16:0 = ~2% 18:0 = ~50% 20:0 = ~5% 22:0 = ~7% 24:0 = ~5% 24:1 = ~21%	Consistent with historical data
Mass Spectroscopy	[M+H] ⁺ = 731.61 ± 1 amu (predominant species)	[M+H] ⁺ = 731.6 amu (predominant species)
Proton NMR	NMR spectrum consistent with structure	Consistent with structure
Quantitative Proton NMR	NMR spectrum consistent with structure	Consistent with structure
UV Oxidation	NMT 5% total wavelengths	0.14%
Ion Chromatography	Run and Report	0.3173 wt % F ⁻
Peroxide Value	Run and Report	8.5091 mEq/kg

 Approved By: *Anderson Thomas*

For Research Use Only. Not For Human Use.