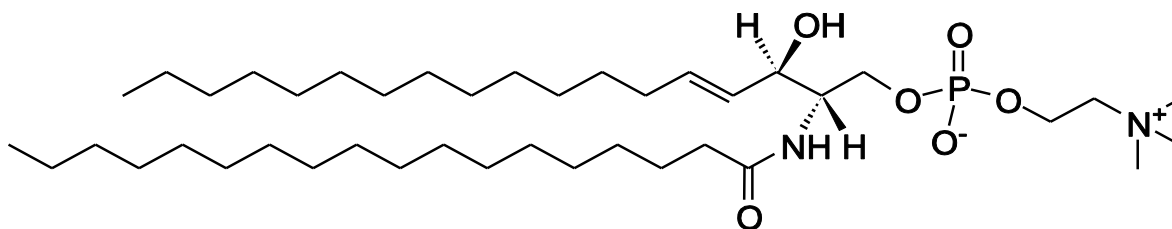


Research Certificate of Analysis

Brain SM
Sphingomyelin (Brain, Porcine)

Molecular Weight: AVG: 760.223
Molecular Formula: C₄₁H₈₃N₂O₆P
Storage: -20°C
Shelf Life (Unopened): 2 Year from date of receipt
Physical Form: Powder
Lot Number: BSM-125



Structure of predominant species

Product Specifications

Test	Limits	Results
GC-FAME (AUC)	Consistent with Historical	Consistent with Historical
Mass Spec	Consistent with Structure	Consistent with Structure
UV/VIS Oxidation	Run and Report	0.09% at 234nm 0.01% at 268nm 0.00% at 278nm
TLC Analysis	>99%	>99%
Ninhydrin	negative	negative
Iodine	one spot	one spot
Phosphorus	positive	positive
Char	positive	positive

Signed: Electronically Signed By QC
Release Date: October 27, 2014