

7 α -hydroxycholesterol

 cholest-5-en-3 β ,7 α -diol

700034P-10mg

Page 1 of 1

uMolecular Weight	1074.158
Chemical Formula	C ₄₅ H ₉₄ N ₃ O ₁₉ P ₃
Physical State	Powder
Storage	-20°C
Expiration Date	One year from date of receipt
M Lot Number	5606PDA014
Avanti Lot Number	850155P-100UG-A-014

ANALYSIS	SPECIFICATION	RESULTS
Physical Examination	Powder: White solid which contains no foreign matter	Pass
TLC (45:35:7.7:2.3 Chloroform: Methanol: Water: Ammonium Hydroxide)	>99% Purity Ninhydrin: negative Iodine: one major spot Phosphorus: positive Charring: positive Water dip: one major spot	All Pass
Proton NMR	NMR spectrum consistent with structure	Consistent with structure
Phosphorus NMR	NMR spectrum consistent with structure	Consistent with structure
Mass Spectroscopy	[M-3NH ₄ +H] ²⁻ = 510.579 ± 1 amu [M-3NH ₄ +2H] ⁻ = 1022.158 ± 1 amu	[M-3NH ₄ +H] ²⁻ = 510.1 amu [M-3NH ₄ +2H] ⁻ = 1022.3 amu
Quantitative Phosphorus NMR	Run and Report	95.6% recovery
Calcium (ICP/MS)	NMT 500 ppm	307.6 ppm

Approved By:

