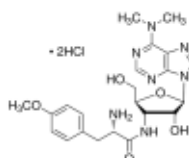


# Certificate of Analysis

Product Name:

Puromycin dihydrochloride from Streptomyces alboniger – powder, BioReagent, suitable for cell culture

**Product Number:** MF427-01  
**Batch Number:** 20170314XV  
**Brand:** Mei5bio  
**CAS Number:** 58-58-2  
**Formula:** C<sub>22</sub>H<sub>29</sub>N<sub>7</sub>O<sub>5</sub>·2HCl  
**Formula Weight:** 544.43 g/mol  
**Storage Temperature:** Store at -20 °C  
**Quality Release Date:** 13 NOV 2016  
**Recommended Retest Date:** SEP 2020



Test	Specification	Result
Appearance (Form)	Powder	Powder
Appearance (Colour)	White to White w/ Yellow Cast	White
Solubility (Solvent)	Water	Water
Solubility (Conc)	49.00 - 51.00 mg/ml	50.00 mg/ml
Solubility (Turbidity)	Clear	Clear
Solubility (Color)	Colorless to Faint Yellow	Colorless
Water (by Karl Fischer)	≤ 12.00 %	9.37 %
Elemental Anal. (%C anhydrous)	47.60 - 49.50 %	47.87 %
Elemental Anal. (%N anhydrous)	17.60 - 18.40 %	18.28 %
NMR (Solvent)	D2O	D2O
Identity by NMR	Consistent	Consistent with Structure
NMR (Residual Solvent 1)	Methanol	Methanol
NMR (% Solvent 1)	≤ 4.00 %	0.00 %
NMR (Residual Solvent 2)	Acetone	Acetone
NMR (% Solvent 2)	≤ 4.00 %	0.17 %
NMR (Total % Resid.Solvents)	≤ 4.00 %	0.17 %
UV (Solvent)	HCl 0.1N	HCl 0.1N
UV (Lambda max)	266 - 270 nm	269 nm
UV (EmM at Lambda max)	18.50 - 20.50	19.27
Cell Culture (Suitability)	Pass	Pass
Purity (HPLC)	≥ 98.00 %	100.00 %

