

Certificate of Analysis Tacrolimus Monohydrate

CAS No.	109581-93-3	Code	BIOJTCM001
Lot No	HNTN2410502U	Manufacture Date	Oct.13, 2024
Retest Date	Oct.12, 2027	Quantity	100G

Testing Items	Specifications	Results	
Appearance	White crystals or white crystalline powder	White crystalline powder	
Identification	A: Infrared absorption	Complies	
	B: The retention time of the major peak of the sample solution corresponds to that of the standard solution as obtained in the assay	Complies	
Residue on ignition	≤0.1%	0.04%	
Heavy metals	≤10ppm	<10ppm	
Optical rotation	-110° to -115°	-111°	
Water	≤4.0%	2.0%	
Organic impurities	Ascomycin 19-epimer≤0.1% Ascomycin≤0.50% Desmethyl tacrolimus≤0.1% Tacrolimus 8-epimer≤0.15% Tacrolimus 8-propyl analog≤0.15% Any individual unspecified impurity≤0.1% Total impurities≤1.0%	Not detected Not detected Not detected Not detected 0.05% Not detected 0.05%	
Assay	98.0%~102.0% (on the anhydrous and solvent-free basis)	100.1%	
Residual solvent	Ethanol≤0.5%	Not detected	
	Acetone≤0.5%	Not detected	
	Ethyl acetate≤0.5% Isopropyl ether≤0.05%	Not detected Not detected	
Conclusion	This product conforms to current USP standard		

^{*}Storage condition: Store between 2°C~8°C, Protect from moisture and light.

