

Certificate of Analysis Tacrolimus Monohydrate

CAS No.	109581-93-3	Code	BIOJTCM001
Lot No	HNTN2405503U	Manufacture Date	May.30, 2024
Retest Date	May.29, 2027	Quantity	100G

Testing Items	Specifications	Results	
Appearance	White crystals or white crystalline powder	White crystalline powder	
	A: Infrared absorption	Complies	
Identification	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%	0.10%	
Heavy metals	≤10ppm	<10ppm	
Optical rotation	-110 °to -115 °	-111 °	
Water	≤4.0%	2.2%	
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	
Assay	(on the anhydrous and solvent-free basis)	100.3%	
Residual solvent	Ethanol≤0.5%	Not detected	
	Acetone≤0.5%	Not detected	
	Ethyl acetate≤0.5%	0.004%	
	Isopropyl ether≤0.05%	Not detected	
Conclusion	This product conforms to current USP standard		

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

