Add: Economic Developed Zone of Taizhou Zhejiang China.

Tel: +86-576-88813233 Fax: +86-576-88229589

Web: http://www.pharm-intermediates.com Email:sales@pharm-intermediates.com

Certificate of analysis

Product name: Rapamycin/Sirolimus

Cas number: 53123-88-9

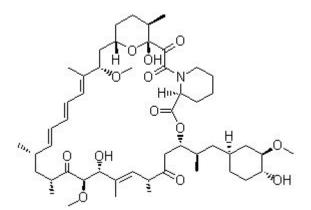
Molecular Formula: C₅₁H₇₉NO₁₃

Molecular Weight: 914.18

Date of production: Aug. 08, 2014

Batch NO:20140808

Exp Date: Aug. 07, 2016



Chemical structure:

Items	Specifications	Results
Appearance	Odorless,off-white to yellow crystalline powder	Conform
Identification A	The IR spectrum of Potassium Bromide preparation of the	
	sample exhibits maxima at the same wavelengths as that of a	Conform
	similar preparation of in-house reference standard.	
Identification B	The UV spectrum of 95% Ethanol preparation of the sample	
	exhibits maxima at 267nm,277nm,288nm that of a similar	Conform
	preparation of in-house reference standard.	
Identification C	The retention times of the peaks for the Trans-and	Conform
	Cis-stereoisomers in the chromatogram of Assay preparation	
	corresponds to that in the chromatogram of the standard	
	prepartion,as obtained in the Assay	
Loss On Dry	Not More Than 0.5%	0.18%
Heavy Metals	Not More Than 0.002%	Conform
Chromatographic Purity		
Individual Impurity	Not More Than 1.0%	0.3%
Total Impurities	Not More Than 2.0%	1.0%
Cis-stereoisomer of Sirolimus	Not More Than 5.0%	2.5%
Assay	98.0% to 102.0% calculated trans- and Cis-stereoisomer of	99.0%
	Sirolimus on the dired basis	
Ethanol	《5000ppm	Not Detected
Ethyl Acetate	《5000ppm	72ppm
Petroleum Ether	《1000ppm	Not Detected
Acetone	《5000ppm	Not Detected

Conclusion: It complies with the Enterprise Standard.

Analyst:Zhao Checker:Liu Q.C Director. Fang F