

# SHANDONG OCTAGON CHEMICALS LIMITED

## CERTIFICATE OF ANALYSIS

Product name	Rapamycin (Sirolimus)		
Batch No.	20201201	Mfg. date	2020.12.18
Rep. Date	2020.12.23	Exp. date	2022.12.17
Packaging	1kg/Tin	Batch Size	3.62KG
Test Items	Standards: Enterprise		Results
Appearance	Odorless, off-white to yellow crystalline powder		Conforms
Identification	Should conform		Conforms
Loss on drying	NMT0.5%		0.14%
Related substances	Single impurity: NMT1.0%		0.18%
	Total impurities:NMT2.0%		0.45%
	Sirolimus Cis-stereoisomer :NMT5.0%		1.8%
Residual solvents	Ethanol: NMT5000ppm		ND
	Ethyl acetate:NMT5000ppm		73ppm
	Petroleum Ether:NMT1000ppm		ND
	Acetone:NMT5000ppm		ND
Assay	98.0%~102.0% (on dried basis)		99.2%
Conclusion	It meets the requirements of Enterprise Standards		
Storage	Store in a well-closed container at ambient temperature		
Prepared by: LI	Reviewed by: WEI	Released by:Zhang	