

OCTAGON CHEMICALS LIMITED

CERTIFICATE OF ANALYSIS

Product name	Tacrolimus (Cas 104987-11-3)		
Batch No.	19120503	Mfg. date	2019.12.13
Rep. Date	2019.12.18	Exp. date	2021.12.12
Packaging	1kg/Tin	Batch Size	1000.9g
Test Items	Standards: USP40		Results
Appearance	Odorless white to off-white crystalline powder		conforms
Identification	IR		Conforms
	HPLC		Conforms
Optical rotation	-110 ~ -115°		-112°
Heavy metals	NMT10ppm		<10ppm
Related Substances	Should conform		Conforms
Residual solvents	Should conform		Conforms
Assay	98.0%~102.0% (on dried basis)		100.03%
Conclusion	It meets the requirements of USP40 Standards		
Storage	Store in a well-closed container at ambient temperature		
Prepared by: LI	Reviewed by: WEI	Released by: Zhang	