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METAPHARMACEUTICAL

N DE LOTE: 0240922



CERTIFICATE OF ANALYSIS

Product :: TACROLIMUS MONOHYDRATE Ph. Eur.

Batch No.: P/TAC/22/07/013

Date of Mfg.:JULY 2022 Retest Date.: JUNE 2025

S. No	Test	Result	Specification
1.	Appearance	White crystalline powder	White or almost white crystalline powder.
2.	Solubility	Complies	practically insoluble in water, Soluble in ethanol(96 per cent), practically insoluble in heptane.
3.	Identification		moordote in neptane.
	By IR *	Complies	The Infrared absorption spectrum of the sample should be concordant with the spectrum obtained from Tacrolimus RS/WS.
4.	Appearance of solution	Complies	Solution is clear and not more intensely coloured than reference solution GY ₇
5.	Water	2.89% w/w	1.5 to 4.0% w/w
6.	Sulfated Ash	0.04% w/w	Maximum 0.1% w/w
7.	Related Substance (By HPLC):		0.170 W/W
	Impurity-B (Ascomycin 19- epimer)	ND	Maximum 0.15% w/w
1	Impurity-A (Ascomycin)	0.22%	Maximum 0.50% w/w
	Impurity-C (Desmethyl Tacrolimus)	BDL	Maximum 0.15% w/w
	Impurity-D (Tacrolimus 8-epimer)	BDL	Maximum 0.15% w/w
	Impurity-E (Tacrolimus8-propylanalog)	BDL	Maximum 0.15% w/w
	Impurity-H (Unspecified impurity-i)	BDL	Maximum 0.15% w/w
	Impurity-I (Unspecified impurity-ii)	BDL	Maximum 0.15% w/w
	Total impurities	0.22%	Maximum 1.00% w/w
	Assay (By HPLC): The Sum of Tacrolimus, Tacrolimus compound I and Tacrolimus Compound II (anhydrous Substance)	99.37%	97% to 102% w/w

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^{*}Tests carried out by the outside external laboratory.

Note: - BDL: Below disregard limit, ND: Not detected.

Storage condition: Store in an airtight container. Store at controlled room temperature. Remarks: The above material Complies /Not Complies as per Ph. Eur.+ IH Specification.

Prepared by Name : PNIKESHTEJA Designation : Ir. OFFICER-QC Signature : Fileshfesa Date : 22.07.2022	Checked by Name : 12 - Hogh bash Designation : \$7 - Africar - 8. Signature : 22 - 07 - 202	Designation : MANAGER-OVALETT Signature : +=
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