

BILLS BIOTECH PVT. LTD.

Plot No.-P/01, Biotech Park Phase-1, GIDC, Manjusar Industrial Estate Village-Manjusar, Savli-Vadodara-391775

		CERTIFICATE	OF ANALYSIS			
Product name		TACROLIMUS EP	A.R. no.	T:	BFP/21/07/004	
Batch no.	:	TAC21-16	Batch size	1:	1.500 Kg	
Mfg. date	:	Jul-2021	Re-test date	1:	Jun-2024	
Storage	:	Preserved in air-tight container.				
condition						

TESTS	SPECIFICATION	RESULTS White crystalline powder.	
Description	White or almost white crystalline powder.		
Solubility	Practically insoluble in water.	Practically insoluble in water.	
	Soluble in ethanol (96 %)	Soluble in ethanol (96 %)	
	Practically insoluble in heptane.	Practically insoluble in	
		heptane.	
Identification			
(A) By IR	The IR absorption spectrum of the		
	sample exhibits maxima only at	Complies	
	the same wavelength as that of a		
	similar preparation of EP working		
	standard.		
(B) By HPLC	The retention time of the major		
	peak of the sample solution	Complies	
	corresponds to that of the		
	standard solution as obtained in		
	the assay.		
Appearance of Solution	The Solution is Clear and not		
	more intensely coloured than	Complies	
	reference solution GY ₇ .		
Water	1.5% to 4.0%	1.99 %	
Sulfated ash	Maximum 0.1%	0.06 %	
	97.0% to 102.0% for the sum of		
A = /D: (ID) (A)	tacrolimus ,tacrolimus compound-l		
Assay (By HPLC)	and tacrolimus compound -II	99.82%	
	(anhydrous substance).		



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TESTS	SPECIFICATION	RESULTS	
Related substances Liquid	l chromatography		
Impurity A	Maximum 0.5%	0.12%	
unspecified impurities	Maximum 0.15%	0.06%	
Total impurities	Maximum 1.0%	0.35%	
Residual solvents (By GC			
Acetone	NMT 5000ppm	64.97 ppm	
Di-isopropyl ether	NMT 98 ppm	7.03 ppm	
Ethyl acetate	NMT 5000 ppm	Not Detected	
n-Hexane	NMT 290 ppm	0.35 ppm	
Toluene	NMT 890 ppm	6.31 ppm	
Cyclohexane	NMT3880 ppm	6.87 ppm	
Acetonitrile	NMT 410 ppm	40.27 ppm	

Remarks: The product complies / does not comply above tests as per EP specifications.

	Prepared by (QC)	Checked by (QC)	Approved by (QC)
Sign:	Hisan	pour	-M2
Date:	21-07-2021	21-07-2021	21-07-2021