CERTIFICATE OF ANALYSIS

Date: 19-06-2025

Product Name	**Tacrolimus EP Impurity A**		
Chemical Name	(3S,4R,5S,8R,9E,12S,14S,15R,16S,18R,19R,26aS)-8-Ethyl-5,19-dihydroxy-3-[(1E)-1-[(1R,3R,4R)-4-hydroxy-3-methoxycyclohexyl]prop-1-en-2-yl]-14,16-dimethoxy-4,10,12,18-tetramethyl-3,4,5,6,8,11,12,13,14,15,16,17,18,19,24,25,26,26a-octadecahydro-7H-15,19-epoxypyrido[2,1-c][1,4]oxaazacyclotricosine-1,7,20,21(23H)-tetrone ;(3S,4R,5S,8R,9E,12S,14S,15R,16S,18R,19R,26aS)-8-Ethyl-5,6,8,11,12,13,14,15,16,17,18,19,24,25,26,26a-hexadecahydro-5,19-dihydroxy-3-[(E)-2-[(1R,3R,4R)-4-hydroxy-3-methoxycyclohexyl]-1-methylvinyl]-14,16-dimethoxy-4,10,12,18-tetramethyl-15,19-epoxy-3H-pyrido[2,1-c][1,4]oxaazacyclotricosine-1,7,20,21-(4H,23H)-tetrone (as per USP)		
Structure			
Batch. No.	-	**CAS No.**	104987-12-4
Analysis Date	-	**Retest Date**	2
Mol. Formula	$C_{43}H_{69}NO_{12}$	**Molecular Wt.**	792
Long term Storage Condition		Store at 2-8 °C in well closed container	
Handling and Transit Condition		25-30 °C in well closed container	

Test	**Result**
Appearance	-
Solubility	-
1H-NMR	Conforms to structure
MASS	Conforms to structure
Chromatographic Purity	>90%
Note: This material should be used for research purpose and not for human or animal consumption. Any patent applicable for this product in any country is not applicable for this analytical standard/research chemical.	

	Prepared By	**Checked By**	**Approved By**
Signature			
Date			