

CONCORD BIOTECH LIMITED

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CERTIFICATE OF ANALYSIS

Product		CICLOSPORIN Ph.Eur.		A.R.No.	CB	CBL- 13420023	
Batch No.		13420023		Mfg. Date Mar		r 2020	
Batch size		30.300Kg		Retest Date Feb		2024	
S.N.	Tests		Specification	ons	Observations		
1	Description			most white powder.	White powder.		
2	Solubility		Practically	insoluble in water, freely ethanol and in Methylene chic	Practically insoluble in water, freely soluble in Anhydrous ethanol and in Methylene chloride.		
3	Identification A. [By IR]		the substan	tion maxima in the spectrum ce to be examined correspor size to those in the spectrum reference standard / working	The absorption maxima in the spectrum obtained with the substance corresponds in		
	B. [By HPLC]		the test so	pal peak in the chromatogram plution is similar in retention leak in the chromatogram	Test RT: 28.0 minutes		
4	Appearance of solution		The solution	plution (a) prepared under the	The solution is clear.		
7	Appearance of solution		The solution is clear and not more intensely colored than reference solution Y ₅ , BY ₅ or R ₇ .			Complies .	
5 .	Specific optical rotation (Calculated with reference to the dried substance)		Between -1	93° and -185°	-188°		
6	Loss on		Not more th	1an 2.0 %	0.51 %		
7	Related substances [By HPLC]						
	(a) Ciclosporin C (b) Ciclosporin B (c) Ciclosporin L (d) Ciclosporin U (e) Ciclosporin H (f) Dihydrociclosporin A. (g) Ciclosporin G (h) Ciclosporin D (i) Ciclosporin E (j) Isociclosporin A (k) Any individual unknown impurity (l) Sum of all impurities 8 Assay [By HPLC] (on the dried basis)		Not more t	nan 0.7 %		Below disregard limit Below disregard limit Below disregard limit 0.05 % Not detected 0.32 % 0.25 % 0.30 % Not detected Below disregard limit Below disregard limit 0.92 % 99.8 %	
8			98.3% to 1	02.0% (as $C_{62}H_{111}N_{11}O_{12}$).	99.8 %		
Additio	nal Tests :				¥		
9		solvents (By GC HEADSPACE)					
460	Acetone		NMT 4500	NMT 4500 ppm		Below detection limit	
	Ethyl acetate			NMT 2000 ppin		Below detection limit	
10		size distribution	For inform	For information only		d(0.9): 70 microns	
11	Microbial EnumerationTests:						
	Total viable aerobic count Total mold and yeast count Test for specified microorganism		NMT 1000 CFU / g NMT 100 CFU / g			Less than 10 cfu/g Less than 10 cfu/g	
ř,	E. coli S. aureu Pseudon Candida Clostrid	Part of the same o	Should be Should be Should be Should be	Absent/g Absent/g Absent/g Absent/g Absent/g Absent/g Absent/10	Absent / g Absent / 10g		

Storage: Store in an airtight container, protected from light upto 25°C.

Remarks: The material complies as per Ph. Eur and in-house specification no. SPC/QC/FP/033-03.

Date of Report: Mar 26, 2020

Compiled By (QC)

(D.N.Panchal-Manager)

Date:

26/03/2020

Checked By (QC) (N.S.Jagad-DGM)

Date:

25/13/2020

Approved By (QA)
(T.K.Saha-GN), 1000)
Date: