

CONCORD BIOTE

Regd. Office & Plant: 1482-1486, Trasad Bond, Dholka, Dist. Ahmedahad-382225. (India) Phones: +91-2714-222604, 398200 Fax: +91-2714-222504 Website: www.concordbiotech.com

CERTIFICATE OF ANALYSIS

Product		CICLOSPORIN Ph.Eur.		A.R.No.	CBL- 13419088		
Batch No.		13419088		Mfg. Date	Nov	ov 2019	
Batch size		30.100Kg	.100Kg		Oct	2023	
S.N.	Tests ·		Specifications			Observations	
1	1 Description		White or almost white powder.			White powder.	
2	Solubility		Practically insoluble in water, freely soluble in Anhydrous ethanol and in Methylene chloride.			Practically insoluble in water, freely soluble in Anhydrous ethanol and in Methylene chloride.	
	Identification A. [By IR]		The absorption maxima in the spectrum obtained with the substance to be examined corresponds in position and relative size to those in the spectrum obtained with Ciclosporin reference standard / working standard.			The absorption maxima in the spectrum obtained with the substance corresponds in position and relative size to those in the spectrum obtained with Ciclosporin working standard.	
.)	B. [By HPLC]		The principal peak in the chromatogram obtained with the test solution is similar in retention time to the principal peak in the chromatogram obtained with reference solution (a) prepared under the assay test.			Std RT: 28.3 minutes Test RT: 28.4 minutes	
4	Appearance of solution		The solution is clear and not more intensely colored than reference solution Y ₃ , BY ₃ or R ₇ .			The solution is clear. Complies	
5	Specific optical rotation		Between -193° and -185°			-189°	
	(Calculated with reference to the dried substance)						
6	Loss on Drying		Not more than 2.0 %			0.40 %	
7		ostances [By HPLC]	7.01 more, man 2.0 70			0.40 76	
	(a) Ciclosporin C		Not more tha	0.7%		Below disregard limit	
	(b) Ciclosporin B		Not more tha	50 (F) 50 (10 C)	- 1		
	(c) Ciclospo		Not more tha		- 1	Below disregard limit Below disregard limit	
	(d) Ciclospo		Not more tha	1.0	- 1	Below disregard limit	
	(e) Ciclospo		Not more tha	on medical letter.	1	Not detected	
		ociclosporin A	Not more tha		1	0.29 %	
	(g) Ciclospo		Not more that		- 1	0.19 %	
(h) Ciclos			Not more that		- 1		
	(i) Ciclospo				- 1	0.30 %	
		j) Isociclosporin A		Not more than 0.7 % Not more than 0.7 %		Not detected	
		ividual unknown impurity	Not more than			Below disregard limit	
		l) Sum of all impurities		Not more than 1.5 %		Below disregard limit	
8			00 50/ 10 102	00/ (cs C II) O)		0.78 %	
(on the dried basis)						99.6%	
	Additional Tests:						
9.	Residual solvents (By GC HEADSPACE)						
	Acetone		NMT 4500 pp			Below quantitation limit	
	Ethyl acctate		NMT 2000 pp	וחנ		22 ppm ·	
10	Particle size distribution For information only :.					d(0.9): 50 microns	
11	Microbial EnumerationTests:						
		aerobic count .	NMT 1000 CI		66	Less than 10 cfu / g ·	
		nd yeast count	NMT 100 CF	U/g		Less than 10 cfu / g	
- 1		ified microorganism					
- 1	E. coli	10	Should be Abs			Absent / g.	
1	S. aureus		Should be Abs	scnt / g		Absent / g	
- 1	Pseudomonas aeruginosa		Should be Absent /· g			Absent / g	
	Candida albie		Should be Absent / g		Absent / g		
	Clostridium s		Should be Abs			Absent / g	
	Salmonella s	pp	Should be Abs		- 1	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: Nov 27, 2019

Compiled By (QC) (B.H.Patel-Executive)

Date: 17propress Checked By (QC) (S.K.Jha-Sf.G

Date:

Approved By (QA