



Registered & Corporate Office: Plot No. 72, H. No. 8-2-334/3 & 4, Road No. 5, Opp. SBI Executive Enclave, Banjara Hills, Hyderabad - 500 034, Telangana, INDIA. Tel: +91-40-2525 9999, Fax: +91-40-2525 9889 CIN: L24239TG1987PLC008066

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## CERTIFICATE OF ANALYSIS

Name of the Product	:	Itraconazole USP			35	
Batch No	:	ITZ/0120028		A.R. No.		FP/20/08.56
Quantity	:	40 Kg	J.J. S	Date of Analysis	:	19.01.2021
Mfg. Date	:	January – 2021	E I	Expiry Date	:	December – 2025

S. No.	Test parameter	Result	Specifications (Ref. No.:CS-FP-5043-03,Rev.05)	
1.	Description	White powder.	A White or almost white powder.	
2.	Solubility	Freely soluble in Methylene chloride, Sparingly soluble in Tetrahydrofuran, very slightly soluble in Alcohol, practically insoluble in water.	Freely soluble in Methylene chloride, Sparingly soluble in Tetrahydrofuran, very slightly soluble in Alcohol, practically insoluble in water.	
3.	Identification			
	a. by IR	The IR absorption spectrum of the sample is match with the spectrum of the Itraconazole working standard.	The IR absorption spectrum of the sample should match with the spectrum of the Itraconazole Reference standard / working standard.	
	b. by HPLC	The Retention time of the major peak of the sample solution is corresponds to that of the standard solution, as obtained in the assay.	The Retention time of the major peak of the sample solution should be corresponds to that of the standard solution, as obtained in the assay.	
4.	Optical rotation [α] <sup>20</sup> measured at 20°C	+ 0.04	Between - 0.10° and + 0.10°	
5.	Loss on drying at 105°C for 4 hours (%, w/w)	0.20	Not more than 0.5	
6.	Residue on ignition (%, w/w)	0.03	Not more than 0.1	

	Prepared by	Reviewed by	Approved by
Sign & Date	King 80/01/22	1/2/01/22	25/01/22
Name	V. Satya Kiran	J. Naresh Babu	N. Satya Krishna
Designation	Asst. Manager – QA	Dy. Manager – QC	Dy. Manager – QA

Pharmaceuticals Limited

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## CERTIFICATE OF ANALYSIS

Name of the Product	1	Itraconazole USP	THE TAKET	1100		Page 2 of 3
Batch No	1	ITZ/0120028	A.R. No.		FP/20/0856	1011
Quantity	\ (•r	40 Kg	Date of Analysis	9.5	19.01.2021	77.111
Mfg. Date	1	January – 2021	Expiry Date		December - 20	25

S. No.	The second of th		Specifications (Ref. No.:CS-FP-5043-03,Rev.05)						
7.	Organic impurities by HPLC (%, w/w)								
	4-methoxy derivative	BDL (0.05)	Not more than 0.2						
	4-Triazolyl isomer	0.10	Not more than 0.3						
	Sum of Propyl analog & Isopropyl analog	0.05	Not more than 0.3						
	Epimer	BDL (0.05)	Not more, than 0.2						
±	n-Butyl isomer	BDL (0.05)	Not more than 0.2						
	Didioxolanyl analog	the stan 0.07. 6	Not more than 0.3						
	Any unspecified impurity	BDL (0.05)	Not more than 0.10						
	Total impurities	0.22	Not more than 0.8						
8.	Assay by HPLC on dried basis (%, w/w)	99.9	Not less than 98.0 and Not more than 102.0						
9.	Residual Solvents by GC (ppm)								
	Methanol	Below LOD (14)	Not more than 300						
2 8	Acetone	Below LOD (21)	Not more than 500						
	Toluene	295	Not more than 890						
	N,N-Dimethyl formamide	Below LOD (53)	Not more than 440						
	Dimethyl sulfoxide	Below LOD (55)	Not more than 500						

1 11 (4) 1,	Prepared by	Reviewed by	Approved by
Sign & Date	Funt 25/01/22	12staller	25/01/22
Name	V. Satya Kiran	J. Naresh Babu	- Units de literature de la company
Designation	Asst. Manager – QA	Dy. Manager – QC	N. Satya Krishna Dy. Manager – OA





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Name of the Product	•	Itraconazole USP			
Batch No	:	ITZ/0120028	A.R. No.	:	FP/20/0856
Quantity		40 Kg	Date of Analysis		19.01.2021
Mfg. Date		January – 2021	Expiry Date	:	December – 2025

S. No.	Test parameter	Result	Specifications (Ref. No.:CS-FP-5043-03,Rev.05)	
* Addi	tional tests			
10.	Particle size distribution by	Malvern (Dry method)		
	D(0.1)	1.3	Not more than 5 µm	
	D(0.5)	6.2	Not more than 10 µm	
D(0.9)		16.7	Not more than 25 µm	
11.	Identification of polymorph by XRPD	XRPD difractogram is exhibit specific 20 value at 10.8, 14.5, 16.6, 17.5, 18.0, 19.4, 20.4, 21.2, 23.5, 25.3, 25.5 and 27.1.	XRPD diffractogram should exhibit specific 20 value at $\pm$ 0.2° of 10.8, 14.5, 16.6, 17.5, 18.0, 19.4, 20.4, 21.2, 23.5, 25.3, 25.5 and 27.1.	

Conclusion: -The product conforms to the Itraconazole USP Specifications.

BDL: - Below Disregard Limit, LOD: - Limit of Detection, LOQ:- Limit of Quantitation

	Prepared by	Reviewed by	Approved by
Sign & Date	Fent 25/01/22	want soil 22	25/01/22
Name	V. Satya Kiran	J. Naresh Babu	N. Satya Krishna
Designation	Asst. Manager – QA	Dy. Manager – QC	Dy. Manager – QA