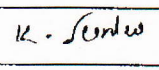
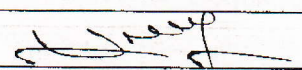


CERTIFICATE OF ANALYSIS

Product Name	FLUCONAZOLE Ph.Eur.	Page No.	1 of 3
Batch Number	HFAC05130018	A.R. No.	13FP00656
Mfg. Date	May 2013	Date of Release	20/05/2013
Quantity	50.000 Kg	Retest Date	April 2016

S. No.	TEST	SPECIFICATION	RESULT
1	Description	White or almost white, crystalline powder.	White, crystalline powder.
2	Solubility	Slightly soluble in water, freely soluble in methanol, soluble in acetone.	Slightly soluble in water, freely soluble in methanol, soluble in acetone.
3	Identification a) By I.R.	The I.R. spectrum of sample recorded as KBr pellet should be concordant with similarly recorded spectrum of Fluconazole Crystalline Polymorph Form-III working standard.	The I.R. spectrum of sample recorded as KBr pellet is concordant with similarly recorded spectrum of Fluconazole Crystalline Polymorph Form-III working standard.
4	Appearance of solution (5 % w/v solution in methanol)	Solution should be clear and colourless.	Solution is clear and colourless.
5	Loss on drying (drying in an oven at 105 °C, determined on 1.000 g, % w/w)	Not more than 0.5 %	0.14 %
6	Sulphated ash (determined on 1.0 g, % w/w)	Not more than 0.1 %	0.07 %
7	Heavy metals (ppm)	Not more than 10 ppm	Less than 10 ppm
8	Related Substances by HPLC (% w/w) • Fluconazole isomer (Ph. Eur. Impurity A) • Tritriazole derivative (Ph. Eur. Impurity B)	Not more than 0.3 % Not more than 0.3 %	0.17 % 0.02 %

	Prepared By	Checked By	Approved By
Name	T. Appi Reddy	K. Suresh Babu	T. Venkateswara Rao
Signature			
Date	22/05/2013	22/05/2013	22/05/2013

Format No.: QC064-F01-02

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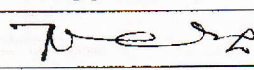
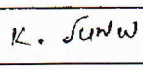
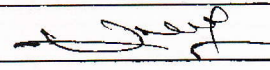
CERTIFICATE OF ANALYSIS

Product Name	FLUCONAZOLE Ph.Eur.	Page No.	2 of 3
Batch Number	HFAC05130018	A.R. No.	13FP00656
Mfg. Date	May 2013	Date of Release	20/05/2013
Quantity	50.000 Kg	Retest Date	April 2016

S. No.	TEST	SPECIFICATION	RESULT
	- Ditriazole benzene (Ph. Eur. Impurity C) - Any other - Total	Not more than 0.1 % Not more than 0.10 % Not more than 0.6 %	Not detected 0.05 % 0.24 %
9	Assay (By titrimetry, % w/w, as $C_{13}H_{12}F_2N_6O$, on dried basis)	Not less than 99.0 % and Not more than 101.0 %	100.1 %
10	Additional Tests		
	10.1 Bulk Density (g/ml)		
	- Untapped - Tapped	Report results Report results	0.45 g/ml 0.91 g/ml
	10.2 Particle Size Analysis (By Malvern particle size analyzer) (μ)		
	- D (v, 0.5) - D (v, 0.9)	$\leq 100 \mu$ $\leq 200 \mu$	48 μ 181 μ

NON-ROUTINE TEST:

11	Microbiological Limits		
	a) i. Total aerobic microbial count (TAMC)	Not more than 1000 CFU/g	Less than 10 CFU/g
	ii. Total combined yeasts/moulds count (TYMC)	Not more than 100 CFU/g	Less than 10 CFU/g
	b) Escherichia coli	Should be absent	Absent

	Prepared By	Checked By	Approved By
Name	T. Appi Reddy	K. Suresh Babu	T. Venkateswara Rao
Signature			
Date	22/05/2013	22/05/2013	22/05/2013

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CERTIFICATE OF ANALYSIS

Product Name	FLUCONAZOLE Ph.Eur.	Page No.	3 of 3
Batch Number	HFAC05130018	A.R. No.	13FP00656
Mfg. Date	May 2013	Date of Release	20/05/2013
Quantity	50.000 Kg	Retest Date	April 2016

Chemical Names of Related Substances:

- (2RS)-2-(2,4-difluorophenyl)-1-(1H-1,2,4-triazol-1-yl)-3-(4H-1,2,4-triazol-4-yl) propan-2-ol
[Fluconazole isomer] [Ph. Eur. Impurity A]
- 2-[2-fluoro-4-(1H-1,2,4-triazol-1-yl)phenyl]-1,3-bis(1H-1,2,4-triazol-1-yl)propan-2-ol.
[Tri Triazole derivative] [Ph. Eur. Impurity B]
- 1,1'-(1,3-phenylene)di-1H-1,2,4-triazole.[Ditriazole benzene] [Ph. Eur. Impurity C]
- 2-(4-Fluorophenyl) 1,3-Bis(1H-1,2,4- Triazol-1-yl)propan-2-ol
[Desfluoro Fluconazole][Ph. Eur. Impurity D]

REMARKS : The material complies as per the above specifications.

	Prepared By	Checked By	Approved By
Name	T. Appi Reddy	K. Suresh Babu	T. Venkateswara Rao
Signature			
Date	22/05/2013	22/05/2013	22/05/2013

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