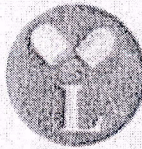


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Lake Chemicals Pvt. Ltd.

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CERTIFICATE OF ANALYSIS

PRODUCT NAME : CLONAZEPAM PHARMACOPOEIA REFERENCE : USP-37
BATCH No. : 80700215006 // A.R No : FPR/15/052
MFG. DATE : FEBRUARY-2015 // RETEST/EXPIRY DATE : JANUARY-2020
DATE OF ANALYSIS : 28/02/2014 CONTROL No : C/15/052/01
MANUFACTURED BY : M/s LAKE CHEMICALS PVT. LTD, BANGALORE, INDIA

TESTS	SPECIFICATION	RESULT
DESCRIPTION	A light yellow powder, having a faint odor.	A light yellow powder having a faint odor
SOLUBILITY	Insoluble in water; Sparingly soluble in acetone and in Chloroform; slightly soluble in alcohol and in ether.	Complies
IDENTIFICATION	By IR Spectrophotometry: The IR absorption spectrum of sample Should be concordant with the IR absorption spectrum of Clonazepam working standard	Complies
MELTING RANGE	Between 237°C and 240°C	239°C to 240°C
LOSS ON DRYING	NMT 0.50%	0.17%
RESIDUE ON IGNITION	NMT 0.10%	0.04%
HEAVY METALS	NMT 0.002%	<0.002%
LIMIT OF CLONAZEPAM RELATED COMPOUND 'C' (By TLC)	NMT 0.20%	<0.20%
RELATED COMPOUNDS By HPLC	a) Clonazepam related compound A b) Clonazepam related compound B c) Any other impurity d) Total other impurities	NMT 0.10% NMT 0.10% NMT 0.20% NMT 0.30%
ASSAY BY HPLC (ON DRIED BASIS)	98.0% to 102.0%	Not detected Not detected 0.06% 0.12%
**RESIDUAL SOLVENTS (By GC)	Methanol Acetone Toluene Iso propyl alcohol	NMT 3000 ppm NMT 5000 ppm NMT 890 ppm NMT 5000 ppm
*PARTICLE SIZE	98% Less than 10 microns 90% Less than 5 microns	Not detected 100 ppm Not detected Not detected
		Complies Complies

** Additional In-house test

* Additional tests and limits as per party's requirement

CONCLUSION: THE PRODUCT COMPLIES WITH THE ABOVE SPECIFICATIONS.

PREPARED BY : *G. Malini* CHECKED BY :

APPROVED BY : *M. K. ...*
28/02/2015

(OFFICER - QC) (HEAD-QC)

DATE : 28/02/2015 DATE :

(HEAD-QA)
DATE : 28/02/2015

LC/QC/F/022/R2

Page: 1 of 1

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CIN No. U85110KA1992PTC013751