UNIQUE CHEMICALS

(A Division of J. B. Chemicals & Pharmaceuticals Ltd).

Plot no.5, Phase IV, GIDC Industrial Estate, PANOLI (GUJARAT) INDIA.

CERTIFICATE OF ANALYSIS

QUALITY CONTROL DEPARTMENT

Name of the Product	: DICLOFENAC A	CID	
Name of the manufacturer	: UNIQUE CHEMIC	CALS, PANOLI.	
Batch No.	: PDFA130090	A.R. No.	: 09FP13001048
Manufacturing Date	: Aug-2013	Expiry Date	: Jul-2018
U		Release Date	: 21/08/2013

TESTS	RESULTS	STANDARDS
Description	White crystalline powder	A white to slightly yellowish, crystalline powder.
Solubility	Freely soluble in Dimethyl Formamide and in Dimethyl Sulphoxide, Soluble in acetone and methanol, sparingly soluble in ethanol, practically insoluble in water.	Freely soluble in Dimethyl Formamide and in Dimethyl Sulphoxide, Soluble in acetone and methanol, sparingly soluble in ethanol, practically insoluble in water.
Melting Point	It melts at 171°C with decomposition.	It melts at about 170°C with decomposition.
Identification: A: Infrared spectrum B: TLC	A: The infra-red spectrum of sample is concordant with the spectrum obtained from Diclofenac Acid working standard. B: The principal spot in the chromatogram obtained with the test solution is similar in position	A: The infra-red spectrum of sample should be concordant with the spectrum obtained from Diclofenac Acid working standard. B: The principal spot in the chromatogram obtained with the test solution is similar in position
	and size to the principal spot in the chromatogram obtained with reference solution.	and size to the principal spot in the chromatogram obtained with reference solution.
Loss on drying (100°C to 105°C for 3 hours).	0.23% w/w	Not more than 0.5 % w/w
Appearance of 5 % Acetonic solution.	Solution is clear and not more intensely coloured than reference solution BY6	Solution should be clear and not more intensely coloured than reference solution BY6
Heavy metals	Less than 10 ppm	Not more than 10 ppm.
Related substances. (By HPLC) A: Diclofenac Impurity A B: Any other impurity C: Total impurities	0.09 % 0.04% 0.14%	A: Not more than 0.15 % B: Not more than 0.10 % C: Not more than 0.3 %
Residue on ignition	0.07% w/w	Not more than 0.1% w/w
Assay (By HPLC) (On dried basis)	99.5 % w/w	98.0 % w/w to 102.0 % w/w
Additional Test:		
Particle size (By Sympatec)	10% < 2.4 μm, 50% < 8.4 μm, 90% < 22.5 μm, 99% < 38.7 μm, 100% < 72.0 μm	Min. 10% < 3 μm, Min. 50% < 10 μm, Min. 90% < 35 μm, Min. 99% < 95 μm, 100% < 146 μm nance Liquid Chromatography,

OPNION: The above batch of DICLOFENAC ACID complies with the prescribed standards of quality.

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