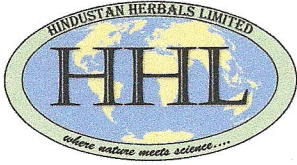


# HINDUSTAN HERBALS LIMITED

manufacturer of herbal extracts & Phytochemicals



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## Certificate Of Analysis


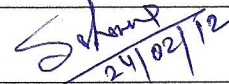
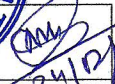
<b>Product</b>	Colchicine USP	<b>QAR No.</b>	12002
<b>Batch No.</b>	HHL/COL/BL/1202002	<b>A. R. No.</b>	BB-12020002
<b>Date of Mfg.</b>	February - 2012	<b>Date of Receive</b>	21/02/2012
<b>Date of Exp.</b>	January - 2017	<b>Date of Release</b>	23/02/2012
<b>Dispatch Qty.</b>	10.0 gm	<b>Page No</b>	1 of 1

S. No.	Parameters	Specifications	Results
1.	Description	Pale yellow to pale greenish-yellow, amorphous scales or powder or crystalline powder. Is odorless or nearly so and darkens on exposure to light.	Pale yellow, odorless, crystalline powder. Darkens on exposure to light.
2.	Solubility	Soluble in water, freely soluble in alcohol and in chloroform slightly soluble in ether.	Complies
3.	Identification (By IR)	IR spectra should match with that of reference standard	Confirmed
4.	Specific Rotation	Between (-)240° and (-)250° (On anhydrous and solvent free basis)	(-)246.13°
5.	Water Content (By KF)	NMT :-2.0%	0.90 %
6.	Limit of colchicine	No definite green color should produce.	Complies
7.	Limit of ethyl acetate	Not more than 8.0 %	6.19 %
8.	<b>Chromatographic Purity</b> Sum of all peaks other than colchicine peak	Not more than 5.0 %	1.20 %
9.	<b>Residual Solvents</b> Methanol MDC Chloroform	Not more than 3000 PPM Not more than 600 PPM Not more than 100 PPM	178 PPM 119 PPM 72 PPM
10.	Assay (By HPLC)	Between 94.0% and 101.0% (On anhydrous and solvent free basis)	100.7 %

**Remark:** The product **complies** as per USP specification.

**Storage Condition:** Preserve in tight, light-resistant containers.



 Analyzed by (Chemist QC)	 Checked by (Manager QC)	 Approved By (Manager QA)
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