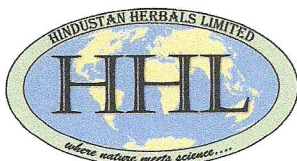


HINDUSTAN HERBALS LIMITED

manufacturer of herbal extracts & phytochemicals



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Certificate Of Analysis

Product	Thiocolchicoside IP	QAR No.	12003
Batch No.	HHL/THIO/BL/1202001	A. R. No.	BB-12020003
Date of Mfg.	February - 2012	Date of Receive	20/02/2012
Date of Exp.	January - 2017	Date of Release	27/02/2012
Dispatch Qty.	N/A	Page No	1 of 2

S. No.	Parameters	Specifications	Results
1.	Description	A yellow crystalline powder	A yellow crystalline powder
2.	Solubility	Soluble in water.	Complies.
3.	Identification A. By IR B. By UV	IR spectra should match with that of Standard. Absorbance maxima between 220-440nm corresponding with that of standard.	Complies. Complies.
4.	pH (0.5% w/v solution in water)	Between 6.0 and 7.5	7.30
5.	Specific Optical Rotation (0.5% solution at 23°C in water)	(-) 550° to (-) 580° (on dried basis)	(-) 560.0°
6.	Related Substances (By HPLC) N-deacetyl N-formyl thiocolchicoside Colchicoside Total Unknown impurities	Not more than 0.5% Not more than 0.5% Not more than 0.5%	0.29 % 0.03 % 0.07 %
7.	Sulphated Ash	Not more than 0.1 %	0.06 %
8.	Loss on Drying (At 105°C for 3 hrs.)	Not more than 4.0 %	1.25 %
9.	Assay (By HPLC)	Between 98.0% and 102% (on dried basis)	99.8 %

Analyzed by (Chemist QC)	Checked by (Manager QC)	Approved By (Manager QA)
<i>Dhm</i> 28/02/12	<i>S. Shrivastava</i> 28/02/12	<i>[Signature]</i> 28/02/12



