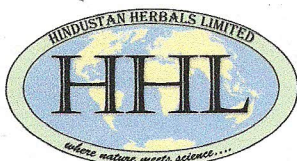


# HINDUSTAN HERBALS LIMITED

manufacturer of herbal extracts & phytochemicals



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## Certificate Of Analysis

Product	Curcumin 95 %	QAR No.	12019
Batch No.	HHL/CUR/BL/1205001	A. R. No.	BB-12050005
Date of Mfg.	May- 2012	Date of Receive	10/05/2012
Date of Exp.	April - 2014	Date of Release	17/05/2012
Dispatch Qty.	200 kg	Page No	1 of 1

S. No.	Parameters	Specifications	Results
1.	Appearance	A fine powder.	A Fine powder.
2.	Colour	Yellowish Orange	Yellowish Orange
3.	Identification		
A-	By TLC	Sample spots should match with that of Standard.	Complies.
B-	By HPLC	The retention time of the peaks of Curcumin, Desmethoxycurcumin and Bidesmethoxycurcumin in the chromatogram of the test solution correspond to those in the chromatogram of standard.	Complies
4.	Particle Size	NLT:-90.0% pass through 120 mesh	Complies
5.	Bulk Density	0.3 to 0.6	0.4
6.	Melting Point	178-181°C	180°C
7.	Loss on drying (105°C for 2 hrs)	NMT:-2.0 %	1.0 %
8.	Total Ash	NMT:-1.0 %	0.50 %
9.	Heavy Metals	NMT:- 20µg/gm	Complies
6.	Total Curcuminoid Content By HPLC (ODB)	NLT:- 95.0 %	98.6 %
7.	Residual Solvent (By GC-HS)		
A-	Ethyl Acetate	As per USP	Complies
8.	Microbial contamination Total microbial count. Total yeast and mould count Escherichia coli Salmonella Staphylococcus aureus Pseudomonas aeruginosa	Not more than 1000 cfu/gm. Not more than 100 cfu/gm. Absent /gm. Absent /gm. Absent /gm. Absent /gm.	80 cfu/gm <10 cfu/gm Absent Absent Absent Absent

Remarks: The product complies as per above specification.

Storage Condition: Preserve in well closed containers, protected from light and moisture, and store at room temperature.



 16/05/12	 18/05/12	 18/05/12
Prepared by (Chemist QC)	Checked by (Manager QC)	Approved By (Manager QA)