



# HINDUSTAN HERBALS LIMITED

(An ISO 9001 : 2008 & GMP CERTIFIED COMPANY)

*Manufacturer of Herbal Extracts & Phytochemicals*

visit us at : [www.hindustanherbals.org](http://www.hindustanherbals.org)

Certificate Of Analysis			
<b>Product</b>	<b>Curcumin 95%</b>	<b>Date of Receive</b>	04/11/2013
<b>Batch No.</b>	HHL/CUR/1311007	<b>Date of Release</b>	11/11/2013
<b>Date of Mfg.</b>	November – 2013	<b>Qty.</b>	500 Kg
<b>Date of Exp.</b>	October – 2015	<b>Page No</b>	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 Bisdesmethoxycurcumin 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	0.45
6.	Melting Point	178-181°C	179°C
7.	Loss on drying	NMT:-2.0 %	1.4 %
8.	Total Ash	NMT:-1.0 %	0.30 %
9.	Heavy Metals	NMT 20 ppm	Complies
10.	<b>Assay For Curcuminoids By HPLC (ODB)</b>	<b>NLT:- 95.0 %</b>	<b>96.2 %</b>
11.	<b>Residual Solvent</b>		
	Ethyl Acetate	NMT 5000 ppm	Complies
	IPA	NMT 3000 ppm	Complies
12.	<b>Microbial Contamination</b>		
	Total microbial count.	Not more than 5000 cfu/gm.	100 cfu/gm
	Total yeast and mould count	Not more than 100 cfu/gm.	<10 cfu/gm

**Remarks:** The product **complies** as per above specification



**Corporate Office :**  
170, Subhash Nagar, Rohtak - 124001,  
Haryana (INDIA)  
email : [info@hindustanherbals.org](mailto:info@hindustanherbals.org)

**Factory:**  
Plot No. 51-53, Sector 31 B,  
IMT, Rohtak - 124001,  
Haryana (INDIA)

EXCISE NO: AACCH3289BEM001  
TIN: 06052826750

CONTACT NO : 09996024398, 09896277447, 09896021261, 09996163000, 09728472333



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Certificate Of Analysis			
Product	Piper Nigrum Dry Extract	QAR No.	13115
Batch No.	HHL/PIP/1301001	A. R. No.	BB-1310115
Date of Mfg.	October- 2013	Date of Receive	15/10/2013
Date of Exp.	September - 2015	Date of Release	20/10/2013
Qty.	100 Kg	Page No	1 of 1

S. No.	Parameters	Specification	Results
01.	Color & Appearance	Yellow-Light green crystalline powder	Complies
02.	Odour & taste	Characteristic	Complies
03.	Loss on Drying	NMT 2%	Complies
04.	Solubility in water	Insoluble	Insoluble
05.	Solubility in solvent	Soluble in chloroform & Alcohol	Soluble
06.	<b>Piperine Content (HPLC)</b>	<b>NLT 95 %</b>	<b>96.2 %</b>
07.	Bulk Density (UT)	0.30 – 0.50 g/ml	0.47 g/ml
08.	Bulk Density (T)	0.55 – 0.75 g/ml	0.63 g/ml
09.	Particle Size: Pass through 40#	NLT 95%	Complies
10.	Melting Point	126 – 132 °C	130 °C
11.	Heavy Metals	NMT 10 ppm	Complies
	<b>Microbiology</b>		
12.	Total Plate Count	NMT 1000 cfu/gm	50 cfu/gm
13.	Yeast & Mould	NMT 100 cfu/gm	<10 cfu/gm
14.	E.Coli	Absent	Absent
15.	Salmonella	Absent	Absent

**Remarks:** The product **complies** as per above specification.

**Storage Condition:** Cool dry place, protected from light and moisture.



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