



CERTIFICATE OF ANALYSIS

Product: Turmeric Extract (Curcumin 95%)

Mfg Date: Nov 2024

Botanical Name: *Curcuma longa*

Exp Date: Oct 2027

Batch No: CLRE395 10091124

PROTOCOL	SPECIFICATION	ANALYSIS	TEST METHODS
Description			
Source	CURCUMA LONGA		
Part Used	RHIZOMES		
Appearance	Fine Powder		
Color	Yellowish Orange Powder	Complies	Visual
Odor	Characteristic	Complies	Visual
Taste	Characteristic	Complies	Organoleptic
Particle Size	NLT 90% (through 80 mesh)	Complies	80 mesh screen
Bulk Density	0.3 to 0.6	0.39 gm/ml	USP XXIII
Solubility In Water	Insoluble	Complies	IP
Solubility In Alcohol	Slightly Soluble	Complies	IP
Loss On Drying (% w/w at 105° C for 3 hr)	NMT 2%	1%	USP XXII (Vacuum oven)
pH	5 - 8	6.10	USP XXIII
Ash Content	NMT 1%	0.27%	USP XXIII
Curcuminoids By HPLC on dried basis (%Area)	NLT 95%	97.89%	HPLC Method
Curcumin	NLT 70% and NMT 80%	77.41%	USP35 <621>
Desmethoxycurcumin	NLT 15% and NMT 25%	15.14%	USP35 <621>
Bisdemethoxycurcumin	NLT 2.5% and NMT 6.5%	5.34%	USP35 <621>
Heavy Metals			
Lead	NMT 0.5 ppm	Complies	USP 35<231>
Mercury	NMT 0.1 ppm	Complies	USP 35<231>
Arsenic	NMT 1 ppm	Complies	USP 35<231>
Cadmium	NMT 0.5 ppm	Complies	USP 35<231>
Residual Pesticides	To comply with USP	Absent	<USP 561>
Total Solvent Residue			
Ethyle Acetate	NMT 5000 ppm	Complies	GC-Head space
Ethanol	NMT 5000 ppm	Complies	GC-Head space
IPA	NMT 5000 ppm	Complies	GC-Head space
Acetone	NMT 5000 ppm	Complies	GC-Head space
Benzene	NMT 2 ppm	Complies	GC-Head space

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SILVERLINE CHEMICALS



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EDC	NMT 5 ppm	Complies	GC-Head space
Microbiology			
Total Plate Count	NMT 1000 cfu/gm	<10 cfu/gm	AOAC BAM
Yeast And Mould	NMT 100 cfu/gm	<10 cfu/gm	AOAC BAM
E. Coli	Absent	Absent	AOAC BAM
Coliforms	NMT 10/gm	Absent	AOAC BAM
Salmonella	Absent	Absent	AOAC BAM
Aflatoxins			
Aflatoxins B1	As per USP	Complies	USP XXIII
Aflatoxins B2	As per USP	Complies	USP XXIII
Aflatoxins G1	As per USP	Complies	USP XXIII
Aflatoxins G2	As per USP	Complies	USP XXIII

Conclusion: Conform to enterprise specification.

Storage: Cool & dry place. Do not freeze. Keep away from strong light and heat.

Shelf life: 4 Years when properly stored

Approved By



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Works & Office :
Shingla Carpets Bldg.,
Near District Courts, G. T. Road,
Panipat-132103 (Haryana) India

Tel. : 91-180-2638938
Fax : 91-180-4008265
24 Hrs. Customer Care : +91-9810339289

E-mail : sales@silverlinechemicals.com,
raman@silverlinechemicals.com
web : www.silverlinechemicals.com

