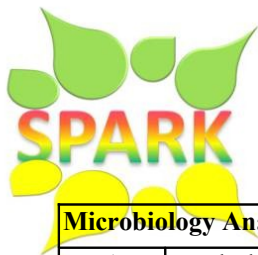




CERTIFICATE OF ANALYSIS - CURCUMIN 95% POWDER

Product	:	TURMERIC EXTRACT 95%	Part Used	:	Rhizomes
Botanical Name	:	Curcuma Longa Extract	QC Report No.	:	QC/BCN/cu058
Batch No.	:	BCN110032/0002	Expiry Date	:	September 2016
Mfg Date	:	October 2011	Extraction Solvent	:	EA
Quantity	:	500 kg			

Sr No	Characteristic	Specification	Result
Physical Properties			
1	Identification	Positive	Positive
2	Appearance	Fine Powder	Fine Powder
3	Colour	Yellowish orange	Yellowish orange
4	Odour	Characteristic	Characteristic
5	Taste	Characteristic	Characteristic
6	Particle Size	NLT 90% (through 120 mesh)	NLT 95%
7	Bulk Density	0.3 to 0.6	0.4
8	Moisture (% w/w)	< 1.0	NMT 0.8%
9	Melting point	178-181 degree	181 degree
Chemical Properties			
1	Total Curcuminoids by Spectrophotometric method	NLT- 95%	98.20%
2	Loss on Drying	NMT- 6%	0.70%
3	PH	5-8	5
4	Ash content	NMT-6%	3.20%
5	Residual Solvent	NMT 10 ppm	Below 10 PPM Complies
Solubility			
1	In Water	Insoluble	Insoluble
2	In Alcohol	Slightly Soluble	Slightly Soluble
Heavy Metals			
1	Total Heavy Metals	NMT 10 ppm	Complies
2	Lead	NMT 2 ppm	Complies
3	Mercury	NMT 1 ppm	Complies
4	Arsenic	NMT 1 ppm	Complies
5	Cadmium	NMT 0.3 ppm	Complies



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Microbiology Analysis			Email: info@sparkexpo.com
1	Total Plate Count	NMT 1000 cfu/gm	Complies
2	Yeast & Mould	NMT 100 cfu/gm	Complies
3	E.Coli	Absent	Complies
4	Coliforms	NMT 10/gm	Complies
5	Salmonella	Absent	Complies
Pesticide residue analysis			Website: www.sparkexpo.com
	As per USP & BP Limits		
	Organochlorine Pesticides	To comply with USP	Complies
	Organophosphorus Pesticides	To comply with USP	Complies
	Synthetic pyrethroids	To comply with USP	Complies
Phytochemical analysis			
1	Colour value	> 15000	Complies
2	Total curcuminoids (% w/w)	> 95.0	Complies

The material COMPLIES with the above said specification.

Deceleration: Turmeric Extract 95% is a product of natural origin. Hence minor variation in colour are observed in different batches manufactured.

For SparkExpo, INDIA