


Certificate of Analysis

Date:	17.09.2019
Page:	1 of 2
Product:	Tumeric Root Extract 95% Curcuminoid (HPLC)
Art. No.:	969791
Batch No.:	CP20190606
Manufacturing Date:	20.06.2019
Expiry Date:	19.06.2022
Part used:	Root
Botanical source:	<i>Curcuma longa L.</i>
Solvent used:	Ethyl Acetate
Extract ratio:	40 ~ 50:1
Quantity:	200 kg
Standard:	Enterprise Standard

Item	Specification	Result	Method
Assay (%)	Curcuminoid \geq 95.0	95.35	HPLC
Identification	HPTLC Test	Complies	HPTLC
Characters / Appearance	Yellow to orange powder	Complies	Visual
Odor	Characteristic	Complies	--
Solubility	Insoluble in water	Complies	--
Particle / Mesh size	\geq 95 % pass 80 mesh	97.21	USP<786>
Loss on Drying (%)	\leq 2.0	0.49	USP<731>
Ash (%)	\leq 2.0	0.08	USP<281>
Bulk density (g/ml)	0.3 ~ 0.5	0.39	Atomic Absorption
Residual Solvents	EU Directive	Complies	EU. Directive 2009/32/EC
Residual Pesticides	EU Directive	Complies	EU Directive 396/2005/EC
BAP (ppb)	\leq 10.0	Complies	GC-MS
PAH (ppb)	\leq 50.0	Complies	GC-MS
Aflatoxin B1 (ppb)	5.0	Complies	EC <No. 1881/2006>
Sum of A1, A2, B1 & B2 (ppb)	10.0	Complies	EC <No. 1881/2006>
Heavy Metals			
Total (ppm)	\leq 10.0	Complies	Atomic Absorption
Lead (Pb) (ppm)	\leq 3.0	Complies	Atomic Absorption
Arsenic (As) (ppm)	\leq 1.0	Complies	Atomic Absorption
Cadmium (Cd) (ppm)	\leq 1.0	Complies	Atomic Absorption
Mercury (Hg) (ppm)	\leq 0.1	Complies	Atomic Absorption
Microbiological Control			
Total Plate Count (cfu/g)	\leq 1,000	Complies	USP<2021>
Total Yeast & Molds (cfu/g)	\leq 100	Complies	USP<2021>
E. Coli	Negative	Not detected	USP<2022>
Salmonella	Negative	Not detected	USP<2022>
Staphylococcus aureus	Negative	Not detected	USP<2022>



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Other

Packing & Storage	Packed in 25 kg/drum. Store in a well-closed container at room temperature, away from light moisture and pest infestation.
Shelf life	24 months if stored and sealed properly.
Irradiation Status	Non irradiated
GMO Status	GMO-free
Allergen Status	Allergen-free

