

CERTIFICATE OF ANALYSIS

Product Name	Turmeric extract		
Botanical Name	<i>Curcuma longa L.</i>		
Batch Number	20221025	Manufacture Date	20221025
Used part	Root		
Sterilization Method	High temperature sterilization		
Report Date	20221025	Expiry Date	20241024

Item of Analysis	Specification	Results	Test Methods
Assay(by) Curcumin	70-80%	76.68%	HPLC
Demethoxy Curcumin	15-25%	15.12%	HPLC
Bisdemethoxy Curcumin	2.5-6.5%	3.73%	HPLC
Organoleptic			
Appearance	Powder	Conforms	Organoleptic
Color	Yellow Orange Powder	Conforms	Organoleptic
Odor	Characteristic	Conforms	CP2010
Taste	Characteristic	Conforms	CP2010
Physical Characteristics			
Particle Size	100% pass 20 mesh	20MESH	CP2010
Loss on drying	≤5.0%	3.41%	5g/105C/5hrs
Total ash	≤5.0%	3.16%	5g/105C/5hrs
Bulk Density	45-60g/100mL	51g/100mL	CP2010IA
Residue of Solvents	None	Conform	NLS-QCS-1007
Pesticide Residues	1ppm NMT	0.236 ppm	Gas Chromatography
Heavy metals			
Total Heavy Metals	10ppm Max	Conform	USP<231>method II
Lead (Pb)	2ppm NMT	Conform	ICP-MS
Arsenic (As)	2ppm NMT	Conform	ICP-MS
Cadmium (Cd)	2ppm NMT	Conform	ICP-MS
Mercury (Hg)	0.5ppm NMT	Conform	ICP-MS
Microbiological Tests			
Total Plate Count	3000cfu/g Max	Conform	USP<61>
Yeast & Mold	1000cfu/g Max	Conform	USP<61>
E. Coli.	Negative	Conform	USP<61>
Salmonella	Negative	Conform	USP<61>
Staphylococcus	Negative	Conform	USP<61>

Storage: Store in tight, light-resistant containers, avoid exposure to direct sunlight, moisture and excessive heat.

Shelf Life: 24 months if store under the conditions above and stay in original packaging.

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