

CERTIFICATE OF ANALYSIS

Product name: Turmeric Extract		Botanical Name: <i>Curcuma longa L.</i>	Quantity: 500kg
Batch No. JHS230713		Manufacture Date: 13/07/2023	Expiry Date: 12/07/2026
Extracted part: Rhizome		Extract solvent: Ethanol & Ethyl acetate	
Item	Standard	Result	Analysis Method
Appearance	Orange yellow granular	Complies	Visual
Odor & Taste	Characteristic	Complies	Organoleptic
Solubility	Insoluble in water	Complies	
Typical Analysis			
Identification	TLC Test	Complies	TLC
Total Curcuminoids	≥95.00%	95.20%	HPLC
Curcumin		42.2%	HPLC
Desmethoxycurcumin		17.0%	HPLC
Bisdemethoxycurcumin		36.0%	HPLC
Particle Size	NLT 95% through 20 mesh	Complies	US #20 Sieve
Loss on drying	≤ 2.0%	0.23%	USP43-NF38<731>
Ash	≤ 2.0 %	0.25%	USP43-NF38<281>
Bulk density	0.4-0.9 g/ml	0.59g/ml	USP43-NF38<616>
Benzo(a)pyrene	≤10µg/kg	Complies	GC-MS
PAH4	≤50µg/kg	Complies	GC-MS
Heavy Metals			
Heavy metals	≤ 10ppm	Complies	USP43-NF38<231>
Arsenic (As)	≤ 1.0ppm	Complies	Atomic Absorption
Lead (Pb)	≤ 3.0ppm	Complies	Atomic Absorption
Cadmium (Cd)	≤ 1.0ppm	Complies	Atomic Absorption
Mercury (Hg)	≤ 0.1ppm	Complies	Atomic Absorption
Microorganism			
Total Bacterial Count	<1000cfu/g	Complies	USP43-NF38<2021>
Total Molds Count	<100cfu/g	Complies	USP43-NF38<2021>
Staphylococcus aureus	Negative	Not Detected	USP43-NF38<2022>
Salmonella	Negative	Not Detected	USP43-NF38<2022>
E. Coli	Negative	Not Detected	USP43-NF38<2022>
Aflatoxin B1	5ppb max.	Complies	EC <No 1881/2006>
Sum of A1,A2,B1 & B2	10ppb max.	Complies	EC <No 1881/2006>
Package	N.W. 25Kgs/fiber drum and two plastic bags inside.		
Shelf life	3 Year When Properly Stored		
Storage	Store in well-closed container at room temperature, protect from light, moisture and pest infestation.		

Analyst: Hongyu Zhang

Inspect: Yanan Zhang

Authority: Qingyu Zhao



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 Authorized Signature(s)