



CERTIFICATE OF ANALYSIS

Product name:	Curcumin granules	Plant Source	Carcuma longa
Used part:	Turmeric Root	Manu. Date:	March,21,2019
Batch Number:	UN-F-JHSL190321	Expiration Date:	March,20,2021
Batch Size	1000KG	Report Date	March,21,2019

Item	Specification	Results	Methods
Assay :Curcumin	≥95%	95.01%	HPLC/USP36
Appearance & Color	Yellow or orange granules	Conforms	Visual
Odor & Taste	Characteristic	Conforms	Organoleptic
Solubility	Soluble in Ethanol	Conforms	USP
Bulk Density	0.4-0.6g/ml	0.50g/ml	USP
Mesh Size	40-60mesh	100%	USP
Loss on Drying	≤2.0%	1.43%	USP((105 °C, 2 h))
Ash Content	≤1.0%	0.78%	USP
Solvent Residue	Negative	Conforms	GC/USP
Heavy Metals			
Total Heavy Metals	≤10ppm	3ppm	AAS/ICP-MS
Arsenic (As)	≤1.0ppm	0.35ppm	AAS/ICP-MS
Lead (Pb)	≤1.5ppm	0.82ppm	AAS/ICP-MS
Cadmium	<1mg/kg	Not Detected	AAS/ICP-MS
Mercury	≤0.3ppm	Not Detected	AAS/ICP-MS
Microbiology			
Total Plate Count	≤1000cfu/g	<1000	USP
Total Yeast & Mold	≤100cfu/g	<100	USP
E. Coli	≤40MPN/100g	Not Detected	USP
Salmonella	Negative in 25g	Not Detected	USP
Staphylococcus	Negative in 10g	Not Detected	USP

Conclusion	Conform with specification
Storage	Store in cool & dry place,Keep away from strong light and heat
Shelf life	2 years when properly stored

QC : ZHAO TING

QA :HOU XUEHUI

