

BaseBulk

CERTIFICATE OF ANALYSIS

Product Name	Marigold Flower Extract
Botanical name	Tagetes erecta L.
Part used	Flower
Extract solvent	N-hexane
Country of Origin	China
Batch No.	20011201
Representative Qty.	500 kg
Manufacture date	2022-01-12
Expiry date	2027-01-11
Shelf life	5 years (when properly stored)

Physical & Chemical Characteristics

Analysis Item	Specification	Result
Appearance	Orange red fine powder	Complies
Odor	Characteristic	Complies
Taste	Characteristic	Complies
Loss on drying	≤8.00%	3.58%
Ash	≤8.00%	1.01%
Particle size	Pass through sieve No.80 ≥95%	Complies
Density	0.40–0.70 g/ml	Complies
Assay (Zeaxanthin)	≥20.00%	20.49%

Heavy Metals

Analysis Item	Specification	Result
Heavy metals (total)	≤10 ppm	Complies
Arsenic (As)	≤2 ppm	Complies
Cadmium (Cd)	≤1 ppm	Complies
Lead (Pb)	≤2 ppm	Complies
Mercury (Hg)	≤0.1 ppm	Complies

Residual Solvents

Analysis Item	Specification	Result
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Residual Solvents: N-hexane	≤10 mg/kg	<5 mg/kg
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Microbiological Tests

Analysis Item	Specification	Result
Total microbacterial count	≤10000 CFU/g	Complies
Yeast & Mould	≤1000 CFU/g	Complies
Escherichia coli	Negative	Negative
Salmonella	Negative	Negative

Packaging & Storage

Packaging	Pack in paper-drums and two food grade poly bags inside.
Storage	Store in a well closed place with constant low temperature and no direct sun light

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