

CERTIFICATE OF ANALYSIS

Product Name:	Marigold Extract	Latin Name:	Tagetes Erecta L
Batch Number:	20211012	Used Part:	Flower
Batch Quantity:	100KG	Analysis Date:	Oct. 12, 2021
Manufacture Date:	Oct. 12, 2021	Certificate Date:	Oct. 12, 2021

ITEM	SPECIFICATION	RESULTS
Description:		
Appearance	Orange Yellow Fine Powder	Conforms
Odor	Characteristic	Conforms
Particle size	90% pass 60 mesh sieve	Conforms
Extract Solvents	N-Hexane, Ethanol and Water	Conforms
Assay:		
Lutein	≥80% by UV	80.66%
Physical:		
Loss on Drying	≤1.00%	0.14%
Residue on Ignition	≤2.00%	1.25%
Chemical:		
Arsenic (As)	≤2ppm	<0.01ppm
Lead (Pb)	≤3ppm	<0.01ppm
Cadmium (Cd)	≤1ppm	<0.01ppm
Mercury (Hg)	≤0.1ppm	<0.01ppm
Heavy Metals	≤10ppm	Conforms
Solvent Residue		
N-Hexane	≤50ppm	5ppm
Ethanol	≤5000ppm	46ppm
Microbial:		
Total Plate Count	≤1000cfu/g Max	10cfu/g
Yeast & Mold	≤100cfu/g Max	<10cfu/g
E.Coli	Negative	Conforms
Salmonella	Negative	Conforms
Staphylococcus	Negative	Conforms

Conclusion Conform to specification

Storage Store in cool & dry place. Keep away from strong light and heat, Vacuum-packed

Shelf life 24 months when properly stored.

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Analyst