



Certificate of Analysis

Name	Lutein powder	Specification	10% HPLC
Origin	Marigold flower	Test Method	In house
Lot No.	L1025101504	Quantity	15 kg
MFG Date	Oct. 15 th , 2025	Retest Date	Oct. 14 th , 2027
St. Method	No-IR/ETO, heat only	Carrier	Maltodextrin

Appearance	Orange yellow powder	Complies
Odor	Characteristic	Complies
Identification	Positive	Complies
Loss on drying	≤8.0%	5.29%
Residue on ignition	≤2.0%	0.59%
Particle size	≥95% through 60 mesh	Complies
Bulk density	0.30–0.60g/ml	0.49g/ml
Residual ethanol	≤5,000 μ g/g	1.1x10 ³ μg/g
Pesticide residues	USP<561>	Complies
Aflatoxin B1	≤2 μ g/kg	ND(<0.5μg/kg)
Aflatoxins(B1,B2,G1,G2)	≤4 μ g/kg	ND(<0.5μg/kg)
Total heavy metals	≤10 μ g/g	Complies
Arsenic (As)	≤1.0 μ g/g	ND(<0.1μg/g)
Cadmium (Cd)	≤0.5 μ g/g	ND(<0.01μg/g)
Lead (Pb)	≤1.0 μ g/g	ND(<0.1μg/g)
Mercury (Hg)	≤0.1 μ g/g	ND(<0.01μg/g)
Zeaxanthin content	--	0.68%
Lutein content	≥10%	10.39%
Bacterial endotoxins	<0.015IU/mg	<0.015IU/mg
Total plate count	≤1000CFU/g	110CFU/g
Molds and Yeasts	≤100CFU/g	5CFU/g
Salmonella	Absence/25g	Complies
E. Coli	Absence/10g	Complies
Staphylococcus aureus	Absence/10g	Complies

Conclusion: The results meet the requirements of the above specification.
Packing:5kg/bag.

