

CERTIFICATE OF ANALYSIS

Lutein Oil (Marigold Extract)

Product Name	Lutein Oil (10% free lutein)	Batch No.	LT-20261024
Manufacture Date	2026-10-24	Expiry Date	2028-10-23
Quantity	25 KG	Standard	Food / Nutraceutical Grade

Test Results

Test Item	Specification	Result	Conclusion
Appearance	Orange-red to dark red viscous oil	Dark red viscous oil	Complies
Identification	Complies (HPLC / UV-Vis)	Complies	Complies
Total Lutein Content (HPLC)	≥ 10.0% (as declared)	10.6%	Complies
Zeaxanthin Content	≤ 10% of total carotenoids	6.2%	Complies
Acid Value	≤ 15 mg KOH/g	4.8 mg KOH/g	Complies
Peroxide Value	≤ 20 meq/kg	6.5 meq/kg	Complies
Moisture	≤ 0.5%	0.28%	Complies
Lead (Pb)	≤ 1.0 ppm	0.30 ppm	Complies
Arsenic (As)	≤ 1.0 ppm	0.25 ppm	Complies
Mercury (Hg)	≤ 0.1 ppm	< 0.1 ppm	Complies
Cadmium (Cd)	≤ 1.0 ppm	< 0.1 ppm	Complies
Total Aerobic Count	≤ 1000 CFU/g	120 CFU/g	Complies
Yeast & Mold	≤ 100 CFU/g	15 CFU/g	Complies
E. coli	Negative	Negative	Complies
Salmonella	Negative	Negative	Complies
Staphylococcus aureus	Negative	Negative	Complies

Conclusion: This batch complies with Food / Nutraceutical Grade specification.

Inspected by:	Xie Wen	Date:	2026-10-26
Approved by:	Liu Chang	Date:	2026-10-26