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Certificate of Analysis

Product Name	Lutein Powder	Botanical Source	<i>Tagetes erecta L.</i>
Plant Part	Marigold flower	Carrier	Maltodextrin
Batch No.	SOST20230225	Manufacturing Date	Feb,25th.2023
Batch Quantity	1,500kg	Expiration Date	Feb,24th.2025

Item	Specification	Results	Methods
Appearance	Orange yellow powder	Complies	Visual
Total Carotenoids	≥20%	22.41	UV
Lutein	≥20%	20.03	HPLC
Zeaxanthin	≤2.2%	1.60	HPLC
Particle Size	≥95% pass 80 mesh	>95	Screen
N-hexane	≤50 mg/kg	<12.3	GC
Loss on Drying	≤ 6.0%	3.42	5g/105°C/2hrs
Residue on Ignition	≤ 1.0%	<1	3g/550°C/4hrs
Lead (Pb)	≤1mg/kg	<1	ICP-MS
Arsenic (As)	≤1mg/kg	<1	ICP-MS
Mercury (Hg)	≤0.1mg/kg	<0.1	ICP-MS
Cadmium (Cd)	≤ 1mg/kg	<1	ICP-MS
Total Plate Count	≤ 1,000 cfu/g	<1000	Plate counting
Molds and Yeasts	≤ 100 cfu/g	<100	Plate counting
Coli Group	≤3.0 MPN/g	<3.0	Counting MPN method
Conclusion	The product meets the testing requirements by inspection.		
Shelf Life	2 Year if sealed and store away from direct sun light.		

Qc.Manager: Gloria Yang

Check: Pengpeng

Analyst: GuoShan

