



## Certificate of Analysis

### General Information

Product Name:	Marigold Extract	Part Used:	Flower
Batch Number:	PC-CA230925	Production Date:	2023.09.25

Item	Specification	Result	Method
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### Physical and Chemical Property

Appearance	Yellow Powder	Conforms	Visual
Particle Size	≥95% through 80 mesh	Conforms	Screening
Residue on Ignition	≤5g/100g	3.52g/100g	3g/550°C/4hrs
Loss on Drying	≤5g/100g	3.05g/100g	3g/105°C/2hrs
Identification	Conforms with TLC	Conforms	TLC
Content:	Lutein ≥ 5%	5.2%	HPLC

### Residue Analysis

Heavy Metals	≤10mg/kg	Conforms	
Lead (Pb)	≤3.00mg/kg	Conforms	ICP-MS
Arsenic (As)	≤2.00mg/kg	Conforms	ICP-MS
Cadmium (Cd)	≤1.00mg/kg	Conforms	ICP-MS
Mercury (Hg)	≤0.50mg/kg	Conforms	ICP-MS

### Microbiological Tests

Total Plate Count	≤1000cfu/g	200cfu/g	AOAC 990.12
Total Yeast & Mold	≤100cfu/g	10cfu/g	AOAC 997.02
E.Coli.	Negative/10g	Conforms	AOAC 991.14
Salmonella	Negative/10g	Conforms	AOAC 998.09
S.aureus	Negative/10g	Conforms	AOAC 2003.07

### Product Status

Conclusion:	Sample Qualified.
Shelf Life:	24 months under the conditions below and in its original packaging.
Retest date:	Retest every 24 months under the conditions below and in its original packaging.
Storage:	Store in a cool, dry place away from Moisture, Light.