

# BaseBulk

## CERTIFICATE OF ANALYSIS

<b>Product Name</b>	Marigold Extract (Lutein 20%)
<b>Botanical Name</b>	Calendula officinalis
<b>Part Used</b>	Flower
<b>Batch No.</b>	M20240111
<b>Batch Quantity</b>	800 kg
<b>Manufacture Date</b>	2024/01/11
<b>Expiry Date</b>	2026/01/10
<b>Issue Date</b>	2024/01/12
<b>Shelf Life</b>	2 years

### Physical & Chemical Characteristics

<b>Analysis Item</b>	<b>Specification</b>	<b>Result</b>
Appearance	Orange powder	Conforms
Odor & Taste	Characteristic	Conforms
Identification	Positive (TLC)	Conforms
Assay (Lutein)	≥20%	20.08%
Particle Size	95% pass 80 mesh	Conforms
Loss on Drying	≤6.0%	3.15%
Residue on Ignition	≤10.0%	4.08%
Bulk Density	0.3–0.6 g/mL	Conforms
Tap Density	0.5–0.9 g/mL	Conforms

### Heavy Metals

<b>Analysis Item</b>	<b>Specification</b>	<b>Result</b>
Heavy Metals	NMT 10 ppm	<10 ppm
Lead (Pb)	NMT 3 ppm	<3 ppm
Arsenic (As)	NMT 2 ppm	<2 ppm
Mercury (Hg)	NMT 0.1 ppm	<0.1 ppm
Cadmium (Cd)	NMT 1 ppm	<1 ppm

### Microbiological Tests

<b>Analysis Item</b>	<b>Specification</b>	<b>Result</b>
Total Plate Count	NMT 10,000 cfu/g	<1,000 cfu/g
Total Yeast & Mold	NMT 100 cfu/g	<100 cfu/g
E. coli	Negative	Negative
Salmonella	Negative	Negative
Staphylococcus	Negative	Negative

### **General Status**

<b>Item</b>	<b>Status</b>
Non-GMO	Yes
Allergen Free	Yes
Non-Irradiation	Yes

### **Packaging & Storage**

<b>Item</b>	<b>Details</b>
Packaging	Packed in paper-drums and two plastic-bags
Storage	Keep in cool & dry place. Stay away from strong light and heat.

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