

# BaseBulk

## CERTIFICATE OF ANALYSIS

<b>Product Name</b>	Guarana Extract 4:1
<b>Botanical Name</b>	Paullina cupana
<b>Part Used</b>	Seed
<b>Country of Origin</b>	India
<b>Batch No.</b>	BMI20241222
<b>Manufacture Date</b>	Mar 2025
<b>Expiry Date</b>	Feb 2028
<b>Issue Date</b>	11.03.2025

### Physical & Chemical Characteristics

Analysis Item	Specification	Result
Appearance	Brown color powder	Complies
Odor & Taste	Characteristic odor and taste	Complies
Identification (HPLC)	To comply	Complies
Loss on Drying	Not more than 5.0% w/w	0.12% w/w
Untapped Bulk Density	Between 0.30 to 0.60 g/mL	0.40 g/mL
Tapped Bulk Density	Between 0.40 to 0.90 g/mL	0.81 g/mL
Particle Size (60 mesh)	NLT 100% passing through	Complies

### Heavy Metals

Analysis Item	Specification	Result
Lead (Pb)	Not more than 3.0 ppm	0.31 ppm
Arsenic (As)	Not more than 1.0 ppm	0.12 ppm
Cadmium (Cd)	Not more than 1.0 ppm	0.06 ppm
Mercury (Hg)	Not more than 0.1 ppm	0.04 ppm

**Pesticide Residues**

Analysis Item	Specification	Result
Residual Pesticides	Meet EC 396/2005	Complies

**PAHs**

Analysis Item	Specification	Result
Poly Aromatic Hydrocarbons (PAHs)	Not more than 50 ppb	Complies
Benzo(a)pyrene	Not more than 10 ppb	Complies

**Mycotoxins & Other Contaminants**

Analysis Item	Specification	Result
Total Aflatoxin (B1, B2, G1, G2)	Not more than 4 ppb	Complies
Aflatoxin B1	Not more than 2 ppb	Complies
Pyrrrolizidine Alkaloids	Not more than 400 ppb	Complies
Ochratoxin A	Not more than 10.0 ppb	Complies
Iron particles	Not more than 10.0 ppm	Complies

**Residual Solvents**

Analysis Item	Specification	Result
Ethanol	Not more than 4000 ppm	Complies
Other solvents	Nil	Nil

**Microbiological Tests**

Analysis Item	Specification	Result
Total Plate Count	Not more than 1000 cfu/g	<100 cfu/g
Total Yeast & Mold	Not more than 100 cfu/g	<10 cfu/g
Escherichia coli	Absent /g	Absent
Salmonella spp.	Absent /25 g	Absent
Staphylococcus aureus	Absent /g	Absent

**General Status**

Item	Status
Sanitizing Treatment	Non-irradiated and not treated with ETO
Genetic Modification Status	GMO-free
BSE / TSE Status	BSE / TSE free
Allergen Status	Allergen free

Nanomaterial Status	Nanomaterial free
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\* The product is of herbal origin. There may be minor color difference because of the geographical and seasonal variations of the plant material.

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