

BaseBulk

CERTIFICATE OF ANALYSIS

Product Name	Gentian Root Extract
Botanical Source	Gentiana Lutea
Part Used	Root
Batch No.	C20221010
Manufactured Date	10/10/2024
Expiration Date	09/10/2027
Solvents Used	Water & Ethanol
Shelf Life	36 months

Physical & Chemical Data

Analysis Item	Specification	Result
Color	Light Yellow	Conform
Odor	Characteristic	Conform
Appearance	Fine Powder	Conform
Identification (HPTLC)	Identical to R.S. sample	Identical
Extract Ratio	4:1	Conform
Sieve Analysis	100% through 80 mesh	Conform
Loss on Drying	≤5.0%	3.02%
Total Ash	≤10.0%	1.77%
Bulk Density	40–60 g/100 mL	53 g/100 mL
Tap Density	60–90 g/100 mL	71 g/100 mL

Heavy Metals

Analysis Item	Specification	Result
Lead (Pb)	≤3.0 mg/kg	0.1130 mg/kg
Arsenic (As)	≤2.0 mg/kg	0.4099 mg/kg
Cadmium (Cd)	≤1.0 mg/kg	0.0221 mg/kg
Mercury (Hg)	≤0.1 mg/kg	0.0229 mg/kg

Contaminants & Compliance

Analysis Item	Specification	Result
Benzo(a)Pyrene	≤10 µg/kg	Conform
PAH4	≤50 µg/kg	Conform
Pyrrolizidine Alkaloids (PAs)	≤400 µg/kg	Conform

Ethylene Oxide (ETO)	≤0.01 mg/kg	Conform
Residual Solvents	Meet Eur.Ph. <2.4.24>	Conform
Pesticides Residue	Meet Eur.Ph. <2.8.13>	Conform

Microbiological Tests

Analysis Item	Specification	Result
Total Plate Count	≤10,000 cfu/g	110 cfu/g
Yeast & Mold	≤1,000 cfu/g	10 cfu/g
E. coli	Negative	Conform
Salmonella	Negative	Conform

General Status

Item	Status
Non-Irradiation	435 (≤700) per EN 13751:2002

Packaging & Storage

Item	Details
Packaging	Packed in paper-drums and two plastic-bags inside; N.W:25kgs, I.D.35×H51cm
Storage	Store in a well-closed container away from moisture, light, oxygen

Notes / Discrepancies

- “Non-Irradiation ≤700 435 EN <13751:2002>” string in source appears garbled; captured as “435 (≤700) per EN 13751:2002” without altering values.