

# BaseBulk

## CERTIFICATE OF ANALYSIS

<b>Product Name</b>	Hops Extract
<b>Botanical Source</b>	Humulus lupulus L.
<b>Part Used</b>	Flower
<b>Batch Number</b>	HL2022110301
<b>Batch Quantity</b>	1000 kg
<b>Extract Ratio</b>	10:1
<b>Manufacture Date</b>	2022-11-03
<b>Expiry Date</b>	2026-11-02

### Physical & Chemical Characteristics

Analysis Item	Specification	Result
Appearance	Brown-yellow fine powder	Conforms
Odor & Taste	Characteristic	Conforms
Identification	Positive (TLC)	Conforms
Loss on Drying	≤8%	2.27%
Residue on Ignition	≤10%	1.35%
Mesh Size	NLT 95% through 80 mesh	Conforms
Bulk Density	0.35–0.65 g/ml	0.54 g/ml

### Pesticide Residue

Analysis Item	Specification	Result
Pesticides Residue	Conform to (EC) No. 396/2005	Conforms

### Polycyclic Aromatic Hydrocarbons (PAHs)

Analysis Item	Specification	Result
Benzo(a)pyrene	≤10 ppb	Conforms
PAH4 (BaP, BaA, BbF, Chr)	≤50 ppb	Conforms

### Heavy Metals

Analysis Item	Specification	Result
Heavy Metals (total)	≤10 ppm	<10 ppm

Lead (Pb)	≤3 ppm	<3 ppm
Arsenic (As)	≤1 ppm	<1 ppm
Cadmium (Cd)	≤1 ppm	<1 ppm
Mercury (Hg)	≤0.1 ppm	<0.1 ppm

### Microbiological Tests

Analysis Item	Specification	Result
Total Plate Count	≤10,000 cfu/g	<3,000 cfu/g
Total Yeast & Mold	≤500 cfu/g	<300 cfu/g
Escherichia coli	Negative	Conforms
Salmonella	Negative	Conforms
Staphylococcus	Negative	Conforms

### Packaging & Storage

Analysis Item	Specification
Packaging	25 kg/drum
Storage	Store well-closed, away from moisture, strong light and heat.

Conclusion: Qualified