

BaseBulk

CERTIFICATE OF ANALYSIS

Product Name	Black Pepper Extract
Botanical name	Piper nigrum L.
Part used	Fruit
Batch No.	VG-221116
Manufacture date	2022-11-16
Expiry date	2025-11-15
Country of origin	China

Physical & Chemical Characteristics

Analysis Item	Specification	Result
Appearance	White or light greenish to yellow powder	Conforms
Odor & Taste	Hot, spicy	Conforms
Piperine (Assay)	≥95.0%	95.95%
Loss on drying	≤5%	0.40%
Residue on ignition	≤5%	0.54%
Mesh size	NLT 95% pass through 80 mesh	Conforms

Contaminants

Analysis Item	Specification	Result
Pesticides residue	Conform to (EC) No. 396/2005	Conforms
PAH4	≤50 ppb	Conforms
Benzo(α)pyrene	≤10 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	$\leq 10,000$ CFU/g	<10,000 CFU/g
Total yeast & mold	≤ 500 CFU/g	<500 CFU/g
Escherichia coli	Negative	Conforms
Salmonella	Negative	Conforms
Staphylococcus aureus	Negative	Conforms

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