

BaseBulk

CERTIFICATE OF ANALYSIS

Product Name	Bitter Orange Extract
Botanical name	Citrus aurantium L.
Part used	Fruit
Batch No.	B20241101
Manufacture date	2024/11/01
Issue date	2024/11/02
Expiry date	2027/10/31
Shelf life	Three years

Physical & Chemical Characteristics

Analysis Item	Specification	Result
Appearance	Brown yellow fine powder	Conforms
Odor & Taste	Characteristic	Conforms
Identification	Positive	Conforms
Assay (Synephrine)	$\geq 10.0\%$	10.09%
Particle size	95% pass 80 mesh	Conforms
Loss on drying	$\leq 5.0\%$	3.20%
Residue on ignition	$\leq 10.0\%$	3.98%
Bulk density	0.3–0.6 g/ml	Conforms
Tap density	0.5–0.9 g/ml	Conforms

Heavy Metals

Analysis Item	Specification	Result
Heavy metals (total)	NMT 10 ppm	Conforms
Lead (Pb)	NMT 3 ppm	Conforms
Arsenic (As)	NMT 2 ppm	Conforms
Mercury (Hg)	NMT 0.1 ppm	Conforms
Cadmium (Cd)	NMT 1 ppm	Conforms

Microbiological Tests

Analysis Item	Specification	Result
Total plate count	NMT 10,000 CFU/g	$\leq 1,000$ CFU/g
Total yeast & mold	NMT 1,000 CFU/g	≤ 100 CFU/g
E. coli	Negative	Conforms
Salmonella	Negative	Conforms

Staphylococcus	Negative	Conforms
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General Status

Non-GMO
Allergen Free
Non-Irradiation

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