



CERTIFICATE OF ANALYSIS

Product Name	Maritime Pine Extract
Botanical Latin Name	Pinus pinaster
Part Used	Bark
Manufacture Date	2024/11/06
Expire Date	2027/11/05
Issue Date	2024/11/07
Batch Number	M20241106

Physical & Chemical Characteristics

Analysis Item	Specification	Result
Appearance	Brown yellow fine powder	Conforms
Odor & Taste	Characteristic	Conforms
Identification	Positive	Conforms
Ratio	10:1	Conforms
Particle size	95% pass 80 mesh	Conforms
Loss on drying	≤5.0%	3.15%
Residue on ignition	≤10.0%	3.96%
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	<10 ppm
Lead (Pb)	NMT 3 ppm	<3 ppm
Arsenic (As)	NMT 2 ppm	<2 ppm
Mercury (Hg)	NMT 0.1 ppm	<0.1 ppm
Cadmium (Cd)	NMT 1 ppm	<1 ppm

Microbiological Tests

Analysis Item	Specification	Result
Total Plate Count	NMT 10,000 CFU/g	<1,000 CFU/g
Total Yeast & Mold	NMT 1,000 CFU/g	<100 CFU/g
E. coli	Negative	Negative
Salmonella	Negative	Negative
Staphylococcus	Negative	Negative

General Status	Non-GMO, Allergen Free, Non-Irradiation.
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Base Bulk