

## CERTIFICATE OF ANALYSIS

<b>Product Name</b>	Pine pollen powder		
<b>Botanical Name</b>	<i>Pinus massoniana</i> Lamb.		
<b>Used part</b>	Raw Pine pollen		
<b>Batch Number</b>	20231128	<b>Manufacture Date</b>	20231128
<b>Report Date</b>	20231128	<b>Expiry Date</b>	20251127

Item of Analysis	Specification	Results	Test Methods
Cell cracked ratio	98%	99.5%	TLC
Protein	10%	10.5%	TLC
<b>Organoleptic</b>			
Appearance	Powder	Conforms	Organoleptic
Color	Light yellow powder	Conforms	Organoleptic
Odor	Characteristic	Conforms	CP2010
Taste	Characteristic	Conforms	CP2010
<b>Physical Characteristics</b>			
Particle Size	100% pass 80 mesh	80MESH	CP2010
Loss on drying	5%NMT (%)	3.33%	USP<731>
Total ash	5%NMT (%)	3.26%	USP<561>
Bulk Density	45-60g/100mL	53g/100mL	CP2010IA
Residue of Solvents	None	Conform	NLS-QCS-1007
Pesticide Residues	1ppm NMT	Conform	Gas Chromatography
<b>Heavy metals</b>			
Total Heavy Metals	10ppm Max	Conform	USP<231>method II
Lead (Pb)	2ppm NMT	Conform	ICP-MS
Arsenic (As)	2ppm NMT	Conform	ICP-MS
Cadmium (Cd)	2ppm NMT	Conform	ICP-MS
Mercury (Hg)	0.5ppm NMT	Conform	ICP-MS
<b>Microbiological Tests</b>			
Total Plate Count	1000cfu/g Max	Conform	USP<61>
Yeast & Mold	100cfu/g Max	Conform	USP<61>
E. Coli.	Negative	Conform	USP<61>
Salmonella	Negative	Conform	USP<61>
Staphylococcus	Negative	Conform	USP<61>

**Storage:** Store in tight, light-resistant containers, avoid exposure to direct sunlight, moisture and excessive heat.

**Shelf Life:** 24 months if store under the conditions above and stay in original packaging.

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