

CERTIFICATE OF ANALYSIS

Product Name	Silk fibroin powder		
Batch Number	20221025	Manufacture Date	20221025
Report Date	20221025	Expiry Date	20241024

Item of Analysis	Specification	Results	Test Methods
Molecular weight	300kd	Conforms	SB/T10407-2007
Organoleptic			
Appearance	Powder	Conforms	Organoleptic
Color	White powder, easy deliquescence	Conforms	Organoleptic
Odor	Characteristic	Conforms	CP2010
Taste	Characteristic	Conforms	CP2010
Physical Characteristics			
Identify	Ninhydrin reaction is positive	Conforms	CP2015
Protein	92%	92.5%	CP2015
Total Nitrogen (%)	≥14.5	20%	CP2015
Loss on Drying (%)	5.0	2.8%	CP2010IA
Residue on Ignition (%)	3.0	3.2%	CP2010IA
PH Value	4.5.0-6.5	5.5	CP2010IA
Heavy metals			
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
Microbiological Tests			
Total Plate Count	3000cfu/g Max	Conform	USP<61>
Yeast & Mold	300cfu/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.

