

CERTIFICATE OF ANALYSIS

Product Name	Grape Seed Extract		
Botanical Name	<i>Vitis vinifera L.</i>		
Country of Origin	China		
Sterilization Method	High temperature sterilization		
Batch Number	20221021	Manufacture Date	20221021
Report Date	20221021	Expiry Date	20241020

Item of Analysis	Specification	Results	Test Methods
Assay (OPC)	95%	96.2%	UV
Organoleptic			
Appearance	Powder	Conforms	Organoleptic
Color	Brown red powder	Conforms	Organoleptic
Odor	Characteristic	Conforms	CP2010
Taste	Characteristic	Conforms	CP2010
Physical Characteristics			
Particle Size	100% pass 80 mesh	80MESH	CP2010
Loss on drying	5%NMT (%)	3.15%	USP<731>
Total ash	5%NMT (%)	3.28%	USP<561>
Bulk Density	45-60g/100mL	52g/100mL	CP2010IA
Residue of Solvents	None	Conform	NLS-QCS-1007
Pesticide Residues	1ppm NMT	Conform	Gas Chromatography
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	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.

