



CERTIFICATE OF ANALYSIS

Batch No.	PTZ221209	Manufacturing Date	December 9, 2022
Sterilization Method	Heat NON-IRR	Expiration Date	December 8, 2025
Botanical Source	<i>Vitis vinifera</i> L.	GMO Status	Non-GMO
Appearance	Brown Fine Power	Part Used	Seed (100% Natural)
Solvents Used	Water & Ethanol	Carrier Used	None

Items	Specification	Result	Method
Extract Ratio	5:1	Conform	TLC USP<201>
Identification	Correspond to standard	Conform	TLC USP<201>
Physical Characteristics			
Particle Size	100% Through 80 mesh	Conform	Analytical sieving USP <786>
Loss on Drying	NMT 5.00%	3.95%	USP <731>
Total Ash	NMT 5.00%	3.76%	USP <561>
Bulk Density	Between 0.25~0.65g/ml	0.38g/ml	USP <616> Method I
Chemical Characteristics			
Residual Solvent (Ethanol)	NMT 1,000ppm	182ppm	GC USP <467>
Heavy Metals(as Pb)	NMT 10ppm	<10ppm	USP <231> Method II
Arsenic (As)	NMT 1.0ppm	<0.2ppm	ICP-MS USP <233>
Lead (Pb)	NMT 3.0ppm	<0.5ppm	ICP-MS USP <233>
Mercury(Hg)	NMT 0.1ppm	<0.1ppm	ICP-MS USP <233>
Microbiological Characteristics			
Total Plate Count	NMT 10,000cfu/g	Conform	USP<2021>

Total Yeast & Mold	NMT 1,000cfu/g	Conform	USP<2021>
Coliforms	NMT 10cfu/g	<10cfu/g	USP<2022>
Salmonella	Not Detected in(g) 10	Not Detected	USP<2022>

Base Bulk