

CERTIFICATE OF ANALYSIS

Product Name	Cinnamon Bark Extract		
Botanical Name	<i>Cinnamomum cassia Presl</i>		
Used part	Bark		
Batch Number	20221021	Manufacture Date	20221021
Report Date	20221021	Expiry Date	20241020

Item of Analysis	Specification	Results	Test Methods
Assay (Cinnamon polyphenols)	10%	10.5%	HPLC
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 (%)	2.28%	USP<731>
Total ash	5%NMT (%)	3.13%	USP<561>
Bulk Density	45-60g/100mL	50g/100mL	CP2010IA
Residue of Solvents	None	Conform	NLS-QCS-1007
Heavy metals			
Total Heavy Metals	10ppm Max	Conform	USP<231>method II
Lead (Pb)	2ppm NMT	0.06ppm	ICP-MS
Arsenic (As)	2ppm NMT	0.02ppm	ICP-MS
Cadmium (Cd)	2ppm NMT	0.02ppm	ICP-MS
Mercury (Hg)	0.5ppm NMT	0.01ppm	ICP-MS
Microbiological Tests			
Total Plate Count	3000cfu/g Max	190 cfu/g	USP<61>
Yeast & Mold	300cfu/g Max	47cfu/g	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.