



Certificate of Analysis

Banaba Leaf Extract Corosolic Acid 1% UV

Batch No.	BNM210216	Manufacturing Date	02/16/2021
Batch Quantity	1000KG	Expiration Date	02/15/2024
Botanical Source	<i>Lagerstroemia speciosa (L.) Pers.</i>	Country of Origin	India
Appearance	Brown Fine Powder	Part Used	Leaf
Solvents Used	Water&Ethanol	Carrier Used	None
Sterilization Method	Heat NON-IRR	Kosher Halal	Yes No

ITEMS	SPECIFICATION	RESULT	METHOD
Content	Corosolic Acid \geq 1%	1.62%	UV
Identification	Correspond to standard	Conform	TLC USP<201>

PHYSICAL CHARACTERISTICS

Particle Size	NLT 95% Through 40 mesh	99.50%	Analytical sieving USP <786>
Loss on Drying	NMT 5.00%	3.30%	USP <731>
Tapped Density	Between 20-100g/100ml	56g/100ml	USP <616> Method I

CHEMICAL CHARACTERISTICS

Residual Solvent	NMT 5000ppm	Conform	GC USP <467>
Pesticide Residue	Meet the requirements	Conform	GC USP <561>
Heavy Metals(as Pb)	NMT 10ppm	Conform	USP <231> Method II
Arsenic (As)	NMT 2ppm	0.010ppm	ICP-MS
Lead (Pb)	NMT 2ppm	0.810ppm	ICP-MS
Cadmium(Cd)	NMT 1ppm	0.047ppm	ICP-MS
Mercury(Hg)	NMT 1ppm	0.132ppm	ICP-MS

MICROBIOLOGICAL CHARACTERISTICS

Total Plate Count	NMT10000cfu/g	1600cfu/g	USP<61>
Total Yeast & Mold	NMT1000cfu/g	50cfu/g	USP<61>
E.Coli	Not Detected in(g) 10	Not Detected	USP<61>
Salmonella	Not Detected in(g) 25	Not Detected	USP<61>
Staphylococcus	Not Detected in(g) 10	Not Detected	USP<61>

Packing and Storage Polyethylene bag with cardboard drum. 25kg net.
Store in tight, light-resistant containers, avoid exposure to direct sunlight, moisture and excessive heat.

Tested by: *Tracy Cui*

Date: 02/22/2021

Approved by: *Jack Joa*

Date: 02/22/2021