



## Certificate of Analysis

### Bacopa Monniera Extract Bacosides 50% UV

<b>Batch No.</b>	JMCX-201003	<b>Manufacturing Date</b>	10/3/2020
<b>Batch Quantity</b>	1000KG	<b>Expiration Date</b>	10/2/2023
<b>Botanical Source</b>	<i>Bacopa monnieri</i> (Linn.)	<b>Country of Origin</b>	India
<b>Appearance</b>	Light brownish-green Fine Powder	<b>Part Used</b>	Aerial parts (100% Natural)
<b>Solvents Used</b>	Water&Ethanol	<b>Carrier Used</b>	None
<b>Sterilization Method</b>	Heat    NON-IRR	<b>Kosher    Halal</b>	Yes    No

ITEMS	SPECIFICATION	RESULT	METHOD
Content	Bacosides≥50%	50.45%	UV    USP<851>
Identification	Correspond to standard	Conform	TLC    USP<201>

#### PHYSICAL CHARACTERISTICS

Particle Size	NLT 95% Through 60 mesh	99.10%	Analytical sieving    USP <786>
Loss on Drying	NMT 5.00%	3.46%	USP <731>
Total Ash	NMT 5.00%	3.80%	USP <561>
Endangered Spp.	Negative	Pass	Report
GMO State	Non-GMO	Pass	Report
Extraneous Metal	Negative	Pass	Magnetic Screen
Solubility (in Water)	>70%	>78.00%	In House Method
Bulk Density	Between 35-75g/100ml	42.00g/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	<2ppm	ICP-MS
Lead (Pb)	NMT 3ppm	<3ppm	ICP-MS
Cadmium(Cd)	NMT 0.5ppm	<0.5ppm	ICP-MS
Mercury(Hg)	NMT 0.5ppm	<0.5ppm	ICP-MS

#### MICROBIOLOGICAL CHARACTERISTICS

Total Plate Count	NMT10000cfu/g	1700cfu/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: *Troy Cui*

Date: 10/10/2020

Approved by: *Jack Joa*

Date: 10/10/2020