



## Certificate of Analysis

### Magnolia Extract Honokiol 2% HPLC

<b>Batch No.</b>	HP-200903	<b>Manufacturing Date</b>	9/3/2020
<b>Batch Quantity</b>	1000KG	<b>Expiration Date</b>	9/2/2023
<b>Botanical Source</b>	<i>Magnolia officinalis</i>	<b>Country of Origin</b>	China
<b>Appearance</b>	Brown Yellow Fine Powder	<b>Part Used</b>	Bark (100% Natural)
<b>Solvents Used</b>	Water	<b>Extract Ratio</b>	20:1
<b>Sterilization Method</b>	Heat    NON-IRR	<b>Kosher    Halal</b>	Yes    No

ITEMS	SPECIFICATION	RESULT	METHOD
Content	Honokiol $\geq$ 2%	2.01%	HPLC    USP<621>
Identification	Correspond to standard	Conform	TLC    USP<201>

#### PHYSICAL CHARACTERISTICS

Particle Size	NLT 95% Through 80 mesh	98.90%	Analytical sieving    USP <786>
Loss on Drying	NMT 5.00%	3.05%	USP <731>
Acid-Insoluble Ash	NMT 5.00%	0.24%	USP <561>
Bulk Density	Between 40-60g/100ml	47.00g/100ml	USP <616> Method I

#### CHEMICAL CHARACTERISTICS

Pesticide Residue	Meet the requirements	Conform	GC    USP <561>
Heavy Metals(as Pb)	NMT 10ppm	Conform	USP <231> Method II
Arsenic (As)	NMT 2ppm	< 1ppm	ICP-MS
Lead (Pb)	NMT 2ppm	< 1ppm	ICP-MS
Cadmium(Cd)	NMT 1ppm	< 1ppm	ICP-MS
Mercury(Hg)	NMT 0.5ppm	< 0.5ppm	ICP-MS

#### MICROBIOLOGICAL CHARACTERISTICS

Total Plate Count	NMT10000cfu/g	900cfu/g	USP<61>
Total Yeast & Mold	NMT1000cfu/g	70cfu/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:** 09/10/2020

**Approved by:** Jack Joa **Date:** 09/10/2020