



**Hongda**  
Phytochemistry

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**Rev 3**

## Certificate of Analysis

### Guggul Extract Guggulsterones 2.5% UV

<b>Batch No.</b>	MY-200804	<b>Manufacturing Date</b>	8/4/2020
<b>Batch Quantity</b>	1000KG	<b>Expiration Date</b>	8/3/2023
<b>Botanical Source</b>	<i>Commiphora mukul</i>	<b>Country of Origin</b>	India
<b>Appearance</b>	Cream to light brown Fine Powder	<b>Part Used</b>	Gum Exudes (100% Natural)
<b>Solvents Used</b>	Alcohol	<b>Carrier Used</b>	None
<b>Sterilization Method</b>	Heat    NON-IRR	<b>Kosher    Halal</b>	Yes    No

ITEMS	SPECIFICATION	RESULT	METHOD
Content	Guggulsterones $\geq$ 2.5% (Dry Basis)	3.20%	UV    USP<851>
Identification	Correspond to standard	Conform	TLC    USP<201>

#### PHYSICAL CHARACTERISTICS

Particle Size	NLT 90% Through 40 mesh	100.00%	Analytical sieving    USP <786>
Loss on Drying	NMT 5.00%	2.87%	USP <731>
P H of 1% Aq solution	5.0 - 7.0	5.9	USP
Bulk Density	0.40 -0.80 g/ml	63g/ml	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	0.020ppm	ICP-MS
Lead (Pb)	NMT 3ppm	0.380ppm	ICP-MS
Cadmium(Cd)	NMT 1ppm	0.010ppm	ICP-MS
Mercury(Hg)	NMT 0.1ppm	<0.010ppm	ICP-MS

#### MICROBIOLOGICAL CHARACTERISTICS

Total Plate Count	NMT10000cfu/g	800cfu/g	USP<61>
Total Yeast & Mold	NMT1000cfu/g	20cfu/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: 08/12/2020

Approved by: *Jack Joa*

Date: 08/12/2020