



## Certificate of Analysis

### Tribulus Terrestris Extract Total Saponins 45% UV

<b>Batch No.</b>	CJL-200429	<b>Manufacturing Date</b>	4/29/2020
<b>Batch Quantity</b>	1000KG	<b>Expiration Date</b>	4/28/2023
<b>Botanical Source</b>	<i>Tribulus terrestris L.</i>	<b>Country of Origin</b>	China
<b>Appearance</b>	Brown Fine Powder	<b>Part Used</b>	Whole herb & Fruit (100% Natural)
<b>Solvents Used</b>	Water&Ethanol	<b>Carrier Used</b>	Dextrin
<b>Sterilization Method</b>	Heat    NON-IRR	<b>Kosher    Halal</b>	Yes    No

ITEMS	SPECIFICATION	RESULT	METHOD
Content	Total Saponins $\geq$ 45%	46.11%	UV    USP<851>
Identification	Correspond to standard	Conform	TLC    USP<201>

#### PHYSICAL CHARACTERISTICS

Particle Size	NLT 95% Through 80 mesh	99.10%	Analytical sieving    USP <786>
Loss on Drying	NMT 5.00%	2.58%	USP <731>
Total Ash	NMT 5.00%	2.30%	USP <561>
Bulk Density	Between 40-60g/100ml	48.00g/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	<0.5ppm	ICP-MS
Lead (Pb)	NMT 2ppm	<0.5ppm	ICP-MS
Cadmium(Cd)	NMT 1ppm	<0.1ppm	ICP-MS
Mercury(Hg)	NMT 1ppm	<0.1ppm	ICP-MS

#### MICROBIOLOGICAL CHARACTERISTICS

Total Plate Count	NMT10000cfu/g	900cfu/g	USP<61>
Total Yeast & Mold	NMT1000cfu/g	60cfu/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>

<b>GMO Status</b>	GMO Free
<b>Gluten Status</b>	Gluten Free

**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: 05/05/2020

Approved by: *Jack Jia*

Date: 05/05/2020