



Hongda
Phytochemistry

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Headquarter: 1932 S Lynx Place, Ontario, CA 91761,US

Factory: No.2, Hongda Industrial District, Dacheng, Sanyuan, Xianyang, Shaanxi,China.

USA Warehouse: 1932 S. Lynx PL, Ontario, CA 91761,US

NJ Warehouse: 52 Butler Street, Unit A Elizabeth, NJ 07206

Certificate of Analysis

Tribulus Terrestris Extract Total Saponins 60% UV

Batch No.	CJL201119	Manufacturing Date	11/19/2020
Batch Quantity	2000KG	Expiration Date	11/18/2023
Botanical Source	<i>Tribulus terrestris L.</i>	Country of Origin	China
Appearance	Brown Fine Powder	Part Used	Fruit (100% Natural)
Solvents Used	Water&Ethanol	Carrier Used	Dextrin
Sterilization Method	Heat NON-IRR	Kosher Halal	Yes Yes

ITEMS	SPECIFICATION	RESULT	METHOD
Content	Total Saponins \geq 60%	65.03%	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%	2.57%	USP <731>
Total Ash	NMT 5.00%	1.62%	USP <561>
Bulk Density	Between 40-60g/100ml	56.00g/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	<1.0ppm	ICP-MS
Lead (Pb)	NMT 2ppm	<1.5ppm	ICP-MS
Cadmium(Cd)	NMT 1ppm	<1.0ppm	ICP-MS
Mercury(Hg)	NMT 1ppm	<0.3ppm	ICP-MS

MICROBIOLOGICAL CHARACTERISTICS

Total Plate Count	NMT10000cfu/g	400cfu/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>

GMO Status	GMO Free
Gluten Status	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: 11/26/2020

Approved by: *Jack Joa* Date: 11/26/2020