



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

Sophora Japonica Extract NF11 Rutin 95% UV

Batch No.	LD-200620	Manufacturing Date	6/20/2020
Batch Quantity	1000KG	Expiration Date	6/19/2023
Botanical Source	<i>Sophora japonica L.</i>	Country of Origin	China
Appearance	Yellow Green Fine Powder	Part Used	Flower (100% Natural)
Solvents Used	Water&Ethanol	Carrier Used	None
Sterilization Method	Heat NON-IRR	Kosher Halal	Yes Yes

ITEMS	SPECIFICATION	RESULT	METHOD
Content	Rutin ≥95%	97.30%	UV USP<851>
Content	Quercetin ≤4.0%	1.10%	HPLC USP<621>
Content	Chlorophyll ≤0.004%	Conform	NF11
Content	Red Pigment ≤0.004%	Conform	NF11
Identification	Correspond to standard	Conform	TLC USP<201>

PHYSICAL CHARACTERISTICS

Particle Size	NMT 95% Through 80 mesh	98.65%	Analytical sieving USP <786>
Loss on Drying	NMT 10.00%	7.20%	USP <731>
Residue on Ignition	NMT 0.50%	0.20%	USP <561>

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 1ppm	< 1ppm	ICP-MS
Lead (Pb)	NMT 3ppm	< 1ppm	ICP-MS
Cadmium(Cd)	NMT 1ppm	< 1ppm	ICP-MS
Mercury(Hg)	NMT 0.1ppm	<0.1ppm	ICP-MS

MICROBIOLOGICAL CHARACTERISTICS

Total Plate Count	NMT1000cfu/g	Conform	USP<61>
Total Yeast & Mold	NMT100cfu/g	Conform	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: 06/27/2020

Approved by: *Jack Jia* Date: 06/27/2020