



Hongda
Phytochemistry

Tel: +86(029)87801888, 87802888

Web: www.hongdaherb.com

Headquarter: 1206, Fucheng Bld., No. 91, N. Chang'an Rd., Xian, Shaanxi, China.

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

USA Warehouse: 1901 S. Lynx Place, Ontario, CA, USA 91761

Fax: +86(029)87806888

Rev 3

E-mail: hongda@hongdaherb.com

Certificate of Analysis

Sophora Japonica Extract Quercetin Dihydrate 95% HPLC (Granular)

Batch No.	HPS-200628	Manufacturing Date	6/28/2020
Batch Quantity	1000KG	Expiration Date	6/27/2023
Botanical Source	<i>Sophora japonica L.</i>	Country of Origin	China
Appearance	Yellow Granular	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	Quercetin Dihydrate≥95%	95.31%	HPLC USP<621>
Identification	Must positive	Positive	Infrared Absorption

PHYSICAL CHARACTERISTICS

Particle Size	NLT 95% Through 20mesh	Conform	Analytical sieving USP <786>
Melting point	305°C—315°C	312°C	Melting point Apparatus
Loss on Drying	NMT 12.00%	9.88%	USP <731>
Sulphated Ash	NMT 0.50%	0.01%	USP <561>
Bulk Density	≥0.50gm/cc	0.65gm/cc	USP <616> Method I
Tapped Density	≥0.60gm/cc	0.80gm/cc	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 1ppm	< 1ppm	ICP-MS
Lead (Pb)	NMT 1ppm	< 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	< 10cfu/g	USP<61>
Total Yeast & Mold	NMT100cfu/g	< 10cfu/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: 07/08/2020

Approved by: *Jack Joa*

Date: 07/08/2020