



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 Eizabeth, NJ 07206

Certificate of Analysis

Dimorphandra Mollis Extract Quercetin Dihydrate 95% HPLC

Batch No.	HPS-210117	Manufacturing Date	01/17/2021
Batch Quantity	1000KG	Expiration Date	01/16/2024
Botanical Source	<i>Dimorphandra Mollis</i>	Country of Origin	Brazil
Appearance	Yellow Fine Powder	Part Used	Fruit (100% Natural)
Solvents Used	Water&Ethanol	Carrier Used	None
Sterilization Method	Heat NON-IRR	Kosher Halal	Yes Yes
ITEMS	SPECIFICATION	RESULT	METHOD
Quercetin Dihydrate (As it is Basis)	≥95%	95.03%	HPLC USP
Quercetin Dihydrate (Dry Basis)	98.0% to 102.0%	99.25%	HPLC USP
Identification	Must positive	Positive	Infrared Absorption
IMPURITIES			
Kaempferol	NMT 0.5%	<0.5%	HPLC USP
Individual Impurities	NMT 0.1%	<0.10%	HPLC USP
Total Impurities	NMT 2.0%	<2.00%	HPLC USP
Organic Volatile Impurities	NMT 5000ppm	100ppm	USP <467>
PHYSICAL CHARACTERISTICS			
Particle Size	97% Through 80 mesh	98.00%	Analytical sieving USP <786>
Loss on Drying	NMT 12.00%	4.25%	USP <731>
Sulphated Ash	NMT 0.20%	0.03%	USP <561>
CHEMICAL CHARACTERISTICS			
Residual Solvent	NMT 5000ppm	Conform	GC USP <467>
Pesticide Residue	Meet the requirements	Conform	GC USP <561>
Sulfates (SO42-)	NMT 1000ppm	<10ppm	USP <221>
Chlorides (Cl-)	NMT 1000ppm	<50ppm	USP <221>
Heavy Metals(as Pb)	NMT 10ppm	Conform	USP <231> Method II
Arsenic (As)	NMT 1.5ppm	<0.006ppm	ICP-MS
Lead (Pb)	NMT 0.5ppm	<0.011ppm	ICP-MS
Cadmium(Cd)	NMT 0.5ppm	<0.006ppm	ICP-MS
Mercury(Hg)	NMT 0.1ppm	<0.006ppm	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: *Tracy Cui*

Date: 01/25/2021

Approved by: *Jack Jia*

Date: 01/25/2021