



Certificate of Analysis

Hawthorn Extract Vitexin 2% HPLC

Batch No.	SZY-200316	Manufacturing Date	3/16/2020
Batch Quantity	1000KG	Expiration Date	3/15/2023
Botanical Source	<i>Crataegus pinnatifida</i> Bge	Country of Origin	China
Appearance	Brown Yellow Fine Powder	Part Used	Leaf (100% Natural)
Solvents Used	Water	Carrier Used	None
Sterilization Method	Heat NON-IRR	Kosher Halal	Yes No

ITEMS	SPECIFICATION	RESULT	METHOD
Content	Vitexin≥2%	2.14%	HPLC USP<621>
Identification	Correspond to standard	Conform	TLC USP<201>

PHYSICAL CHARACTERISTICS

Particle Size	NLT 95% Through 80 mesh	98.80%	Analytical sieving USP <786>
Loss on Drying	NMT 5.00%	3.57%	USP <731>
Total Ash	NMT 5.00%	2.16%	USP <561>
Bulk Density	Between 40-60g/100ml	50.00g/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	0.340ppm	ICP-MS
Lead (Pb)	NMT 2ppm	0.420ppm	ICP-MS
Cadmium(Cd)	NMT 1ppm	0.100ppm	ICP-MS
Mercury(Hg)	NMT 1ppm	0.030ppm	ICP-MS

MICROBIOLOGICAL CHARACTERISTICS

Total Plate Count	NMT10000cfu/g	1700cfu/g	USP<61>
Total Yeast & Mold	NMT1000cfu/g	50cfu/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: 03/22/2019

Approved by: *Jack Joa*

Date: 03/22/2019