



Hongda
Phytochemistry

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Rev 3

Certificate of Analysis

Garcinia Cambogia Extract Hydroxycitric Acid (HCA) 50% HPLC

Batch No.	THG-190618	Manufacturing Date	6/18/2019
Batch Quantity	2000KG	Expiration Date	6/17/2022
Botanical Source	<i>Garcinia cambogia (Gaertn.) Desr.</i>	Country of Origin	India
Appearance	Off white to Light Brown Powder	Part Used	Fruit (100% Natural)
Solvents Used	Water	Carrier Used	None
Sterilization Method	Heat NON-IRR	Kosher Halal	Yes No

ITEMS	SPECIFICATION	RESULT	METHOD
Content	Hydroxycitric Acid \geq 50% (Dried Basis)	60.79%	HPLC USP<621>
Content	Calcium \geq 18%	20.12%	Titration
Identification	Correspond to standard	Conform	TLC USP<201>

PHYSICAL CHARACTERISTICS

Particle Size	NLT 90% Through 40 mesh	Conform	Analytical sieving USP <786>
Odor & Taste	Characteristic	Conform	Organoleptic
Solubility	Insoluble in water, soluble in dilute HCL	Conform	In house
Loss on Drying	NMT 5.00%	0.98%	USP <731>
PH	7.0 – 11.0	10.116	USP <791>
Bulk Density (Tapped)	NLT0.70g/cc	0.84g/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 2ppm	<0.01ppm	ICP-MS
Lead (Pb)	NMT 2ppm	0.10ppm	ICP-MS
Cadmium(Cd)	NMT 1ppm	<0.01ppm	ICP-MS
Mercury(Hg)	NMT 0.5ppm	<0.01ppm	ICP-MS

MICROBIOLOGICAL CHARACTERISTICS

Total Plate Count	NMT10000cfu/g	300cfu/g	USP<61>
Total Yeast & Mold	NMT1000cfu/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.
Store in tight, light-resistant containers, avoid exposure to direct sunlight, moisture and excessive heat.

Tested by: *Troy Cui* **Date:** 06/24/2019

Approved by: *Jack Jia* **Date:** 06/24/2019