



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

American Ginseng Root Extract Total Ginsenosides 5% HPLC

Batch No.	XYS-200604	Manufacturing Date	06/04/2020
Batch Quantity	1000KG	Expiration Date	06/03/2023
Botanical Source	<i>Panax quinquefolium L.</i>	Country of Origin	China
Appearance	Off White to Light Yellow Fine Powder	Part Used	Dried Root (100% Natural)
Solvents Used	Water&Ethanol	Extract Ratio	25:1
Sterilization Method	Heat NON-IRR	Kosher Halal	Yes Yes

ITEMS	SPECIFICATION	RESULT	METHOD
Content	Ginsenosides≥5% (Rg1+Re+Rb1+Rc+Rb2+Rd)	5.29%	HPLC
Content	Ginsenoside Rg ₁	0.06%	HPLC
Content	Ginsenoside Re	1.00%	HPLC
Content	Ginsenosides Rb ₁	2.43%	HPLC
Content	Ginsenoside Rc	0.82%	HPLC
Content	Ginsenoside Rb ₂	0.22%	HPLC
Content	Ginsenoside Rd	0.76%	HPLC
Identification	Correspond to standard	Conform	TLC USP<201>

PHYSICAL CHARACTERISTICS

Odor & Taste	Special odor and taste of american ginseng	Conform	Organoleptic
Particle Size	NLT 95% Through 80 mesh	97.36%	Analytical sieving USP <786>
Loss on Drying	NMT 5.00%	3.42%	USP <731>
Total Ash	NMT 5.00%	0.29%	USP <561>
Bulk Density	Between 30-60g/100ml	44.00g/100ml	USP <616> Method I

CHEMICAL CHARACTERISTICS

Pesticide Residue	Not Detected	Not Detected	Ch.P<0861>
Heavy Metals(as Pb)	NMT 10ppm	Conform	Ch.P<2321>
Arsenic (As)	NMT 1.0ppm	Conform	Ch.P<2321>
Lead (Pb)	NMT 2.0ppm	Conform	Ch.P<2321>
Cadmium(Cd)	NMT 1.0ppm	Conform	Ch.P<2321>
Mercury(Hg)	NMT 0.3ppm	Conform	Ch.P<2321>

MICROBIOLOGICAL CHARACTERISTICS

Total Plate Count	NMT1000cfu/g	100cfu/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: *Troy Cui*

Date: 06/12/2020

Approved by: *Jack Lo*

Date: 06/12/2020