



Certificate of Analysis

Angelica Root Extract

Catalog Number: AR1002
Lot Number: 1106702
Source: *Angelica sinensis*
Storage: 15°C – 30°C
Date of Manufacture: August 18, 2017
Retest Date: August 17, 2019

Test	Specification	Result
Appearance	Brown yellow fine powder	Conforms
Assay (TLC)	4:1	Conforms
Identification (TLC)	Positive	Conforms
Odor	Characteristic	Conforms
Sieve Analysis	100% through 80 mesh	Conforms
Bulk Density	0.30 – 0.70 g/ml	Conforms
Loss on Drying	≤ 5.0%	3.22%
Ash	≤ 5.0%	3.83%
Heavy Metals	≤ 10ppm	< 10ppm
Lead	≤ 2.0ppm	0.23ppm
Arsenic	≤ 2.0ppm	0.37ppm
Cadmium	≤ 1ppm	0.27ppm
Mercury	≤ 0.1ppm	0.03ppm
Pesticide Residue (GC/MS)		
BHC	≤ 0.2ppm	< 0.2ppm
DDT	≤ 0.2ppm	< 0.2ppm
PCNB	≤ 0.1ppm	< 0.1ppm
Aflatoxin B1	≤ 2µg/kg	< 2 µg/kg
Total Aflatoxins (B1, B2, G1, G2)	≤ 4µg/kg	< 4 µg/kg
Benzo(a)pyrene (GC/MS)	≤ 10ppb	< 10ppb
Total Plate Count	≤ 1,000cfu/g	588cfu/g
Yeast & Mold	≤ 100cfu/g	82cfu/g
E. coli	Negative	Negative
Salmonella	Negative	Negative
Staphylococcus	Negative	Negative
Extraction: Ethanol & water		

Approved by:

John Grubb, PhD

Date: November 6, 2017

For research purposes only. Not for drug or clinical use in humans or human food additive use.



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