



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

Hawthorn Berry Powder

| | | | |
|-----------------------------|-----------------------------|---------------------------|----------------------|
| Batch No. | SZG-200305 | Manufacturing Date | 03/05/2020 |
| Batch Quantity | 1000KG | Expiration Date | 03/04/2023 |
| Botanical Source | <i>Crataegus Oxyacantha</i> | Country of Origin | China |
| Appearance | Light Orange Fine Powder | Part Used | Berry (100% Natural) |
| Sterilization Method | Heat NON-IRR | Kosher Halal | Yes No |

| ITEMS | SPECIFICATION | RESULT | METHOD |
|----------------|------------------------|---------|-----------------|
| Identification | Correspond to standard | Conform | TLC USP<201> |

PHYSICAL CHARACTERISTICS

| | | | |
|----------------|-------------------------|--------------|---------------------------------|
| Odor | Typical | Typical | Organoleptic |
| Taste | Typical | Typical | Olfactory |
| Particle Size | NLT 95% Through 80 mesh | 98.90% | Analytical sieving USP <786> |
| Loss on Drying | NMT 10.00% | 3.56% | USP <731> |
| Total Ash | NMT 10.00% | 3.71% | USP <561> |
| Bulk Density | Between 40-60g/100ml | 49.00g/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 | <2ppm | ICP-MS |
| Lead (Pb) | NMT 2ppm | <2ppm | ICP-MS |
| Cadmium(Cd) | NMT 1ppm | <1ppm | ICP-MS |
| Mercury(Hg) | NMT 1ppm | <1ppm | ICP-MS |

MICROBIOLOGICAL CHARACTERISTICS

| | | | |
|--------------------|-----------------------|--------------|---------|
| Total Plate Count | NMT100,000cfu/g | 8900cfu/g | USP<61> |
| Total Yeast & Mold | NMT1000cfu/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: 03/12/2020

Approved by: *Jack Jia* Date: 03/12/2020