



Hongda
Phytochemistry

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Rev 5

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Factory: No.2, Hongda Industrial District, Dacheng, Sanyuan, Xianyang, Shaanxi, China.

CA Warehouse: 1932 S. Lynx Pl., Ontario, CA 91761

NJ Warehouse: 52 Butler Street, Unit A. Elizabeth, NJ 07206

Certificate of Analysis

Griffonia Seed Extract 5-HTP 99% HPLC

| | | | |
|-----------------------------|--------------------------------|---------------------------|------------|
| Batch No. | JNZ-201008 | Manufacturing Date | 10/8/2020 |
| Batch Quantity | 300KG | Expiration Date | 10/7/2023 |
| Botanical Source | <i>Griffonia simplicifolia</i> | Country of Origin | China |
| Appearance | White to off white Powder | Part Used | Seed |
| Solvents Used | Water&Ethanol | Carrier Used | None |
| Sterilization Method | Heat NON-IRR | Kosher Halal | Yes Yes |

| ITEMS | SPECIFICATION | RESULT | METHOD |
|----------------|---------------|---------|------------------|
| Content | 5-HTP≥99% | 99.40% | HPLC USP<621> |
| Identification | Ultrared Rays | Conform | IR |
| Peak X | Free | Free | HPLC USP<621> |

PHYSICAL CHARACTERISTICS

| | | | |
|-------------------------|-------------------------|----------|-----------------------------|
| Particle Size | NLT 95% Through 80 mesh | 100.00% | Analytical sievingUSP <786> |
| Loss on Drying | NMT 0.50% | 0.20% | USP <731> |
| Ash | NMT 0.50% | 0.10% | USP <561> |
| Specific Rotation (20°) | -30.0°~-35.0° | -32.30° | USP <39> |
| Bulk Density | ≥ 0.3g/ml | 0.42g/ml | USP <616> Method I |
| Tapped Density | ≥ 0.5g/ml | 0.65g/ml | USP <616> Method I |

CHEMICAL CHARACTERISTICS

| | | | |
|---------------------|------------|---------|---------------------|
| Residual Solvent | < 5000 ppm | Conform | GC USP <467> |
| Heavy Metals(as Pb) | NMT 10ppm | Conform | USP <231> Method II |
| Arsenic (As) | NMT 0.5ppm | <0.5ppm | ICP-MS |
| Lead (Pb) | NMT 0.5ppm | <0.5ppm | ICP-MS |
| Cadmium(Cd) | NMT 0.1ppm | <0.1ppm | ICP-MS |
| Mercury(Hg) | NMT 0.1ppm | <0.1ppm | ICP-MS |

| | | | |
|--------------------|-----------------------|--------------|---------|
| Total Plate Count | NMT1000cfu/g | Conform | USP<61> |
| Total Yeast & Mold | NMT100cfu/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: *Troy Cui*

Date: 10/16/2020

Approved by: *Jack Joa*

Date: 10/16/2020