



## Shaanxi Hongda Phytochemistry Co.,Ltd

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### Certificate of Analysis

#### Haematococcus Pluvialis Extract Astaxanthin 5%

|                      |                       |                    |            |
|----------------------|-----------------------|--------------------|------------|
| Batch No.            | HD-HPE250405-A5       | Manufacturing Date | 04/05/2025 |
| Batch Quantity       | 350KG                 | Expiration Date    | 04/05/2027 |
| Botanical Source     | Haematococcus pluvial | Country of Origin  | China      |
| Appearance           | Red Fine Powder       | CAS NO.            | 472-61-7   |
| Sterilization Method | Heat    NON-IRR       | Kosher    Halal    | Yes    Yes |
| Shelf Life           | 2 Years               | Pack               | 25kg/Drum  |

| ITEMS                                  | SPECIFICATION           | RESULT       | METHOD                          |
|----------------------------------------|-------------------------|--------------|---------------------------------|
| Assay                                  | Astaxanthin 5.0%        | 5.30%        | HPLC    USP<621>                |
| Cold Water Solubility                  | Soluble                 | Conform      | In-House                        |
| Melting Point                          | 215-216°C               | Conform      | In-House                        |
| Identification                         | Correspond to standard  | Conform      | TLC    USP<201>                 |
| <b>PHYSICAL CHARACTERISTICS</b>        |                         |              |                                 |
| Particle Size                          | NLT 95% Through 80 mesh | Conform      | Analytical sieving    USP <786> |
| Loss on Drying                         | NMT 8.00%               | 4.30%        | USP <731>                       |
| Total Ash                              | NMT 5.00%               | 1.60%        | USP <561>                       |
| Bulk Density                           | Between 40-60g/100ml    | Conform      | USP <616> Method I              |
| <b>CHEMICAL CHARACTERISTICS</b>        |                         |              |                                 |
| 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                | Conform      | ICP-MS                          |
| Lead (Pb)                              | NMT 2ppm                | Conform      | ICP-MS                          |
| Cadmium(Cd)                            | NMT 1ppm                | Conform      | ICP-MS                          |
| Mercury(Hg)                            | NMT 0.1ppm              | Conform      | ICP-MS                          |
| <b>MICROBIOLOGICAL CHARACTERISTICS</b> |                         |              |                                 |
| Total Plate Count                      | NMT1000cfu/g            | NMT100cfu/g  | USP<61>                         |
| Total Yeast & Mold                     | NMT100cfu/g             | NMT10cfu/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>                         |

**Statement** GMO Free,Gluten Free,Non-Animal ,Non-Allergen Non-irradiated

**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. Store NO more than 24 months.

Tested by: Huirhui Zhou

