



## Xi'an DN Biology Co.,Ltd

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### Certificate of Analysis

|                  |                                        |                    |                |
|------------------|----------------------------------------|--------------------|----------------|
| Product Name     | Berberine Hydrochloride                | Batch No.          | DN-XBJ20240113 |
| Botanical Source | <i>Phellodendron chinense</i> Schneid. | Manufacturing Date | 2024-01-13     |
| Plant Part       | Bark                                   | Expiration Date    | 2024-01-12     |

| Item                     | Specification               | Result    | Method       |
|--------------------------|-----------------------------|-----------|--------------|
| Assay                    | Berberine Hydrochloride 98% | 98.16%    | HPLC         |
| Physical & Chemical Data |                             |           |              |
| Appearance               | Yellow Crystal Fine Powder  | Conforms  | Organoleptic |
| Odor & Taste             | Characteristic              | Conforms  |              |
| Analytical Quality       |                             |           |              |
| Identification           |                             | Identical | TLC          |
| Sieve                    | NLT 95% Through 40 mesh     | Conforms  | Mesh Screen  |
| Extract Solvent          | Ethanol & Water             | Conforms  |              |
| Loss on Drying           | ≤12.0%                      | 7.79%     | CP2020       |
| Ash                      | ≤0.2%                       | 0.06%     | CP2020       |
| Bulk Density             | 0.30~0.70g/ml               | Conforms  | CP2020       |
| Pesticide Residue        |                             |           |              |
| BHC                      | ≤0.2ppm                     | Conforms  | GC-MASS      |
| DDT                      | ≤0.2ppm                     | Conforms  | GC-MASS      |
| PCNB                     | ≤0.1ppm                     | Conforms  | GC-MASS      |
| Total Heavy Metals       | ≤10ppm                      | Conforms  | Colorimetry  |
| Arsenic(As)              | ≤2ppm                       | Conforms  | AAS          |
| Lead(Pb)                 | ≤2ppm                       | Conforms  | AAS          |
| Mercury(Hg)              | ≤0.1ppm                     | Conforms  | AAS          |
| Cadmium(Cd)              | ≤1ppm                       | Conforms  | AAS          |
| Microbiological Tests    |                             |           |              |
| Total Plate Count        | ≤1000cfu/g                  | Conforms  | CP2020       |
| Yeast & Mold             | ≤100cfu/g                   | Conforms  | CP2020       |
| E.Coli                   | Negative                    | Negative  | CP2020       |
| Salmonella               | Negative                    | Negative  | CP2020       |
| Staphylococcus           | Negative                    | Negative  | CP2020       |
| Conclusion               | Conform with specification  |           |              |

Storage Cool & dry place.Do not freeze.Keep away from strong light and heat.

Shelf Life 36 months under the conditions above and in its original packaging.

Package In double sealed PP bags, 10/25kgs Drum.

Tested by: Mr Chen Date: 2024-01-18.