



# 西安慧集本草生物科技有限公司

XI'AN HJ HERB BIOTECHNOLOGY CO.,LTD

## Certificate of Analysis

|              |                 |                  |          |
|--------------|-----------------|------------------|----------|
| Product Name | Berberine HCL   | Batch Number     | 20210718 |
| Used part    | Root and stem   | Manufacture Date | 20210718 |
| Packing      | 25kg/Paper Drum | Analysis Date    | 20210721 |
| Quantity     | 1000kg          | Expiry Date      | 20230717 |

| ITEMS                          | SPECIFICATION   | RESULTS      | TEST METHODS |
|--------------------------------|---|--------------|--------------|
| Assay                          | ≥ 97%   | 97.3%        | Titration    |
| <b>Physical &amp; Chemical</b> |   |              |              |
| Appearance                     | Yellow crystalline powder   | Complies     | Visual       |
| Odor                           | Characteristic  | Complies     | Organoleptic |
| Particle size                  | 100% pass80 mesh  | Complies     | CP2015       |
| Loss on drying                 | ≤12.0%  | 10.20%       | CP2015       |
| Ash                            | ≤2.0%   | 1.09%        | CP2015       |
| Pesticides                     | Negative  | Negative     | CP2015       |
| <b>Heavy metals</b>            |   |              |              |
| Heavy Metal                    | ≤10ppm  | Complies     | CP2015(AAS)  |
| Pb                             | ≤2ppm   | Not detected | CP2015(AAS)  |
| As                             | ≤1ppm   | Not detected | CP2015(AAS)  |
| Cd                             | ≤2ppm   | 0.18ppm      | CP2015(AAS)  |
| Hg                             | ≤0.5ppm   | 0.04 ppm     | CP2015(AAS)  |
| <b>Microbiological</b>         |   |              |              |
| Total of bacteria              | ≤1000cfu/g  | 90cfu/g      | CP2015       |
| Molds                          | ≤100cfu/g   | 30cfu/g      | CP2015       |
| Salmonella                     | Negative  | Complies     | CP2015       |
| E.Coli                         | Negative  | Complies     | CP2015       |
| Conclusion                     | Conform with specification.   |              |              |
| Storage                        | Store in cool & dry place. Do not free. Keep away from strong light and heat. |              |              |
| Shelf life                     | 2 years when properly stored.   |              |              |