

**Certificate of Analysis**

| <b>Product Information</b>          |                                                                     |                  |                     |
|-------------------------------------|---------------------------------------------------------------------|------------------|---------------------|
| Product Name                        | White Birch Bark Extract Powder                                     | Report Number    | WBP20211116         |
| Botanical Name                      | Betula Platyphylla                                                  | Manufacture Date | 2021/10/23          |
| Used Part                           | Bark                                                                | Analysis Date    | 2021/10/28          |
| Batch Number                        | WBP211023                                                           | Report Date      | 2021/11/01          |
| Batch Quantity                      | 200Kg                                                               | Expiry Date      | 2023/10/22          |
| <b>Test Items</b>                   | <b>Specifications</b>                                               | <b>Result</b>    | <b>Test Methods</b> |
| <b>Active Ingredients</b>           |                                                                     |                  |                     |
| Assay                               | ≥98.0% Betulin                                                      | 98.31%           | HPLC                |
| <b>Physical &amp; Chemical Data</b> |                                                                     |                  |                     |
| Appearance                          | White Fine Powder                                                   | Conforms         | Visual              |
| Odor and Taste                      | Characteristic                                                      | Organoleptic     | Organoleptic        |
| Identification                      | Positive                                                            | Conforms         |                     |
| Loss on Drying                      | ≤5.0 %                                                              | 1.35%            | 105°C/2 hrs         |
| Total Ash                           | ≤5.0 %                                                              | 0.29%            | GB 5009.4-2016      |
| <b>Contaminants</b>                 |                                                                     |                  |                     |
| Lead (Pb)                           | <3.0mg/kg                                                           | Conforms         | ICP-MS              |
| Arsenic (As)                        | <2.0mg/kg                                                           | Conforms         | ICP-MS              |
| Cadmium (Cd)                        | <1.0mg/kg                                                           | Conforms         | ICP-MS              |
| Mercury (Hg)                        | <0.1mg/kg                                                           | Conforms         | ICP-MS              |
| <b>Microbiological</b>              |                                                                     |                  |                     |
| Total Aerobic Count                 | ≤1000cfu/g                                                          | 90cfu/g          | GB 4789.2           |
| Yeast & Moulds                      | ≤100cfu/g                                                           | 10cfu/g          | GB 4789.15          |
| E-Coli                              | Negative                                                            | Conforms         | GB 4789.3           |
| Salmonella                          | Negative                                                            | Conforms         | GB 4789.4           |
| Staphylococcus Aureus               | Negative                                                            | Conforms         | GB 4789.10          |
| <b>Conclusion</b>                   |                                                                     |                  |                     |
| Conclusion                          | To be complied with in-house Specification                          |                  |                     |
| Shelf Life                          | 2 years when properly stored.                                       |                  |                     |
| Storage                             | Store in cool & dry place, not freeze. Keep away from strong light. |                  |                     |

Tested by: 张丽娜

Checker: 李明

Approved:

