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V2.01-2021

## Certificate of Analysis

| Product Information      |                                                                     |                  |                |
|--------------------------|---------------------------------------------------------------------|------------------|----------------|
| Product Name             | Walnut Seed Extract Powder                                          | Report Number    | WSN20211128    |
| Botanical Name           | Platycladus orientalis L.                                           | Manufacture Date | 2021/11/03     |
| Used Part                | Seed                                                                | Analysis Date    | 2021/11/08     |
| Batch Number             | WSN211103                                                           | Report Date      | 2021/11/13     |
| Batch Quantity           | 1000Kg                                                              | Expiry Date      | 2024/11/02     |
| Test Items               | Specifications                                                      | Result           | Test Methods   |
| Active Ingredients       |                                                                     |                  |                |
| Extract Ratio            | 10:1                                                                | Conforms         | TLC            |
| Physical & Chemical Data |                                                                     |                  |                |
| Appearance               | Brown Yellow Fine Powder                                            | Conforms         | Visual         |
| Odor and Taste           | Characteristic                                                      | Conforms         | Organoleptic   |
| Sieve analysis           | 90% through 80 mesh                                                 | Conforms         | 80 Mesh Screen |
| Loss on Drying           | ≤5.0 %                                                              | 3.23%            | 105°C/2 hrs    |
| Total Ash                | ≤5.0 %                                                              | 3.14%            | GB 5009.6      |
| Bulk Density             | 40~60g/100mL                                                        | 49.9 g/100mL     | GB/T 18798.5   |
| Tap Density              | 50~80g/100mL                                                        | 52.3 g/100mL     | GB/T 18798.5   |
| Contaminants             |                                                                     |                  |                |
| 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         |
| Microbiological          |                                                                     |                  |                |
| Total Aerobic Count      | ≤ 1000cfu/g                                                         | 180cfu/g         | GB 4789.2      |
| Yeast & Moulds           | ≤ 100cfu/g                                                          | 45cfu/g          | GB 4789.15     |
| E-Coli                   | Negative                                                            | Conforms         | GB 4789.3      |
| Salmonella               | Negative                                                            | Conforms         | GB 4789.4      |
| Staphylococcus Aureus    | Negative                                                            | Conforms         | GB 4789.10     |
| Conclusion               |                                                                     |                  |                |
| Conclusion               | To be complied with in-house Specification                          |                  |                |
| Shelf Life               | 3 years when properly stored.                                       |                  |                |
| Storage                  | Store in cool & dry place, not freeze. Keep away from strong light. |                  |                |

**Remarks:** This product is natural, the color vary from batch to batch.

Tested by: 张丽娟

Checker: 李明

Approved:

