

## CERTIFICATE OF ANALYSIS

### Pine Bark Extract 4:1

**Batch No.: CSSP-C-A506419    Manufacture Date: 20250531    Expiry Date: 20280530**

| General Information                                                 |                          |                        |               |
|---------------------------------------------------------------------|--------------------------|------------------------|---------------|
| Part Used                                                           | Bark                     | Solvents Used          | Water&Ethanol |
| Botanical Source                                                    | <i>Pinus Pinaster</i>    | Country Of Origin      | China         |
| ITEMS                                                               | SPECIFICATION            | METHOD                 | TEST RESULTS  |
| <b>Physical&amp;Chemical Data</b>                                   |                          |                        |               |
| Color                                                               | Red Brown                | Organoleptic           | Conform       |
| Odour                                                               | Characteristic           | Organoleptic           | Conform       |
| Appearance                                                          | Fine Powder              | Organoleptic           | Conform       |
| <b>Analytical Quality</b>                                           |                          |                        |               |
| Identification                                                      | Identical to R.S. sample | HPTLC                  | Identical     |
| Extract Ratio                                                       | 4:1                      |                        | Conform       |
| Sieve analysis                                                      | 100 % through 80 mesh    | Eur.Ph. <2.9.12>       | Conform       |
| Loss on Drying                                                      | ≤5.0 %                   | Eur.Ph. <2.8.17>       | 2.31 %        |
| Total Ash                                                           | ≤10.0 %                  | Eur.Ph. <2.4.16>       | 0.96 %        |
| Bulk density                                                        | 40~60 g/100mL            | Eur.Ph. <2.9.34>       | 49 g/100mL    |
| Tap density                                                         | 60~90g/100mL             | Eur.Ph. <2.9.34>       | 63 g/100mL    |
| <b>Contaminants</b>                                                 |                          |                        |               |
| Lead (Pb)                                                           | ≤3.0 mg/kg               | Eur.Ph. <2.2.58>ICP-MS | 0.040 mg/kg   |
| Arsenic (As)                                                        | ≤2.0 mg/kg               | Eur.Ph. <2.2.58>ICP-MS | 0.231 mg/kg   |
| Cadmium (Cd)                                                        | ≤1.0 mg/kg               | Eur.Ph. <2.2.58>ICP-MS | <0.01 mg/kg   |
| Mercury (Hg)                                                        | ≤0.1 mg/kg               | Eur.Ph. <2.2.58>ICP-MS | <0.01 mg/kg   |
| Solvents Residue                                                    | Meet Eur.Ph. <2.4.24>    | Eur.Ph. <2.4.24>       | Conform       |
| Pesticides Residue                                                  | Meet Eur.Ph. <2.8.13>    | Eur.Ph. <2.8.13>       | Conform       |
| <b>Microbiological</b>                                              |                          |                        |               |
| Total Plate Count                                                   | ≤1000 cfu/g              | Eur.Ph. <2.6.12>       | Conform       |
| Yeast & Mold                                                        | ≤100 cfu/g               | Eur.Ph. <2.6.12>       | Conform       |
| E.Coli.                                                             | Negative/g               | Eur.Ph. <2.6.13>       | Conform       |
| Salmonella                                                          | Negative/25g             | Eur.Ph. <2.6.13>       | Conform       |
| <b>Packing&amp;Storage</b>                                          |                          |                        |               |
| Packed in paper-drums and two plastic-bags inside;                  |                          |                        |               |
| N.W:25kgs, I.D.35×H51cm;                                            |                          |                        |               |
| Store in a well-closed container Away from moisture,light, oxygen.  |                          |                        |               |
| <b>Shelf life</b>                                                   |                          |                        |               |
| 36 months under the conditions above and in its original packaging. |                          |                        |               |

**Quality Assurance Officer**

**Corrector**

**Analyst**

**No: STP-QCP-<2> (222)**