

# CERTIFICATE OF ANALYSIS

## Ginger Extract 5% Gingerols(HPLC)

Batch No.: CSJ-C-A406227 Manufacture Date: 20240229 Expiry Date: 20270228

| General Information                                                 |                            |                        |                |
|---------------------------------------------------------------------|----------------------------|------------------------|----------------|
| Part Used                                                           | Rhizome                    | Solvents Used          | Water&Ethanol  |
| Botanical Source                                                    | <i>Zingiber officinale</i> | Country Of Origin      | China          |
| ITEMS                                                               | SPECIFICATION              | METHOD                 | TEST RESULTS   |
| Physical&Chemical Data                                              |                            |                        |                |
| Color                                                               | Light Yellow               | Organoleptic           | Conform        |
| Odour                                                               | Characteristic             | Organoleptic           | Conform        |
| Appearance                                                          | Fine Powder                | Organoleptic           | Conform        |
| Analytical Quality                                                  |                            |                        |                |
| Identification                                                      | Identical to R.S. sample   | HPTLC                  | Identical      |
| Gingerols                                                           | ≥5.0%                      | HPLC                   | 5.74%          |
| Sieve analysis                                                      | 100 % through 80 mesh      | Eur.Ph. <2.9.12>       | Conform        |
| Water(KF)                                                           | ≤6.0 %                     | Eur.Ph. <2.5.12>       | 3.52%          |
| Total Ash                                                           | ≤10.0 %                    | Eur.Ph. <2.4.16>       | 0.64%          |
| Bulk density                                                        | 40~60 g/100mL              | Eur.Ph. <2.9.34>       | 52 g/100mL     |
| Tap density                                                         | 60~90g/100mL               | Eur.Ph. <2.9.34>       | 63 g/100mL     |
| Contaminants                                                        |                            |                        |                |
| Lead (Pb)                                                           | ≤3.0 mg/kg                 | Eur.Ph. <2.2.58>ICP-MS | 0.0514 mg/kg   |
| Arsenic (As)                                                        | ≤2.0 mg/kg                 | Eur.Ph. <2.2.58>ICP-MS | 0.042861 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        |
| Microbiological                                                     |                            |                        |                |
| Total Plate Count                                                   | ≤10000 cfu/g               | Eur.Ph. <2.6.12>       | 100 cfu/g      |
| Yeast &Mold                                                         | ≤1000 cfu/g                | Eur.Ph. <2.6.12>       | 10 cfu/g       |
| E.Coli.                                                             | Negative                   | Eur.Ph. <2.6.13>       | Conform        |
| Salmonella                                                          | Negative                   | Eur.Ph. <2.6.13>       | Conform        |
| General Status                                                      |                            |                        |                |
| Non-Irradiation                                                     | ≤700                       | EN <13751:2002>        | 359            |
| Packing&Storage                                                     |                            |                        |                |
| 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.  |                            |                        |                |
| Shelf life                                                          |                            |                        |                |
| 36 months under the conditions above and in its original packaging. |                            |                        |                |

Quality Assurance Officer



Corrector



Analyst



No: STP-QCP-17 (229)