



**Sophix Natural**  
And Agro Products Ltd  
RC-1615742

**Importers and dealers of**  
- Natural and Organic Oils  
- Essential Oils  
- Natural Powders  
- Clays, etc  
- Agro Products  
- General Contracts

## Certificate of Analysis

|              |                                                                                            |                  |          |
|--------------|--------------------------------------------------------------------------------------------|------------------|----------|
| Product Name | Glycyrrhiza Glabra (Licorice) Root Extract(Standardized to 100% Dipotassium Glycyrrhizate) |                  |          |
| INCI Name:   | DIPOTASSIUM GLYCYRRHIZATE                                                                  |                  |          |
| CAS          | 68797-35-3                                                                                 |                  |          |
| MF           | C42H63KO16                                                                                 |                  |          |
| EINECS       | 272-296-1                                                                                  |                  |          |
| Batch Number | 20260609                                                                                   | Manufacture Date | 20260609 |
| Report Date  | 20260609                                                                                   |                  |          |

| Items Tested                          | Specifications                         | Results   | Test Method                 |
|---------------------------------------|----------------------------------------|-----------|-----------------------------|
| <b>Physical and Chemical Analysis</b> |                                        |           |                             |
| Appearance                            | White or light yellow powder           | Complies  | Organoleptic examination    |
| Clarity of Solution                   | Clear and colorless to pale yellow     | Complies  | Visual inspection           |
| PH                                    | 5.0 ~6.0                               | 5.21      | USP <791>                   |
| Chloride                              | Not more than 0.014%                   | Complies  | USP <221> / Limit Test      |
| Sulfate                               | Not more than 0.029%                   | Complies  | USP <221> / Limit Test      |
| Uv color                              | Not more than 0.008                    | 0.007     | UV-Vis Spectrophotometry    |
| Residue on ignition                   | 18.0%~22.0%                            | 20.3%     | USP <281> / Ignition Method |
| Residual ethanol                      | Not more than 0.5%                     | 0.40%     | GC / USP <467>              |
| Residual NH4+                         | Not more than 0.006%                   | Complies  | USP / Limit Test            |
| Assay(UV)                             | Between 96.0% to 102.0% of C42H60K2O16 | 100.3%    | UV Spectrophotometry        |
| Assay(HPLC)                           | Not less than 65.0% of C42H60K2O16     | 65.7%     | HPLC / USP <621>            |
| <b>Physical Characteristics</b>       |                                        |           |                             |
| Loss on Drying                        | ≤ 5.00%                                | 3.64%     | USP <731> / Ph.Eur. 2.2.32  |
| Total ash                             | ≤ 5.00%                                | 2.84%     | USP <561>                   |
| Bulk Density                          | 0.45–0.60 g/mL                         | 0.53 g/mL | USP <616> / Ph.Eur. 2.9.34  |
| Residue of Solvents                   | Ethanol ≤ 3000 ppm                     | Conform   | USP <467> / GC-MS           |
| <b>Heavy Metals (ICP-MS)</b>          |                                        |           |                             |
| Lead (Pb)                             | ≤ 10 ppm                               | <0.5 ppm  | ICP-MS                      |
| Arsenic (As)                          | ≤ 2 ppm                                | <0.1 ppm  | ICP-MS                      |
| Cadmium (Cd)                          | ≤ 1 ppm                                | <0.1 ppm  | ICP-MS                      |
| Mercury (Hg)                          | ≤ 1 ppm                                | <0.05 ppm | ICP-MS                      |
| <b>Microbial Limits</b>               |                                        |           |                             |
| Total Aerobic Microbial Count         | ≤ 1000 CFU/g                           | <10 CFU/g | USP <61> / Ph. Eur. 2.6.12  |
| Total Yeast and Mold Count            | ≤ 100 CFU/g                            | <10 CFU/g | USP <61> / Ph. Eur. 2.6.12  |
| E. coli                               | Absent in 1g                           | Absent    | USP <62> / Ph. Eur. 2.6.13  |
| Salmonella spp.                       | Absent in 10g                          | Absent    | USP <62> / Ph. Eur. 2.6.13  |
| Pseudomonas aeruginosa                | Absent in 1g                           | Absent    | USP <62> / Ph. Eur. 2.6.13  |

**Quality Statement:** This product is manufactured under a quality system compliant with cGMP principles for both food and cosmetic applications. Specifications and test methods are established with reference to the relevant ISO Standards, Chinese National Standards (GB), United States Pharmacopeia (USP), and European Pharmacopoeia (Ph. Eur.).

For cosmetic use, the batch fully complies with the requirements of EU Cosmetic Regulation (EC) No 1223/2009, China's Safety Technical Standards for Cosmetics (2015 Edition), and U.S. FDA cosmetic GMP guidelines. For food use, the batch meets the applicable requirements of China's national food safety standards (including GB 2762, GB 2763, GB 7101) and the U.S. FDA Food Safety Modernization Act (FSMA) and applicable food additive regulations.

**Storage:** Store in tight, light-resistant containers. Avoid exposure to direct sunlight, moisture, and excessive heat.

**Shelf Life:** 24 months if stored under the above conditions and remains in original packaging.



Plot 9, Zone A, Lliguor Street Oke Omi Off Kukumoda, National Bus Stop, New Ife Road, Ibadan



08039513992, 07061111838



sophixnatural@gmail.com



www.sophixnatural.com



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