

BaseBulk

CERTIFICATE OF ANALYSIS

| | |
|--------------------------|------------------------|
| Product Name | Rhodiola Rosea Extract |
| Botanical name | Rhodiola rosea L. |
| Part used | Root |
| Extract solvent | Ethanol & Water |
| Country of origin | China |
| Batch No. | 027-24101812 |
| Manufacture date | 2024-10-18 |
| Expiry date | 2027-10-17 |
| Shelf life | 3 years |

Physical & Chemical Characteristics

| Analysis Item | Specification | Result |
|---------------------|----------------------------------|-----------|
| Appearance | Brownish fine powder | Complies |
| Odor & Taste | Characteristic | Complies |
| Loss on drying | $\leq 5.0\%$ | 3.20% |
| Bulk density | 0.60–0.80 g/ml | 0.47 g/ml |
| Identification | Identical to R.S. sample (HPTLC) | Complies |
| Particle size | $\geq 95\%$ pass 80 mesh | Complies |
| Assay (Rosavins) | $\geq 3.00\%$ | 3.02% |
| Assay (Salidroside) | $\geq 1.00\%$ | 1.10% |
| Pesticides residue | Complies to USP | Conforms |
| Residual solvents | Complies to USP | Conforms |

Heavy Metals

| Analysis Item | Specification | Result |
|----------------------|----------------|----------|
| Heavy metals (total) | ≤ 10 ppm | Complies |
| Arsenic (As) | ≤ 1 ppm | Complies |
| Lead (Pb) | ≤ 1 ppm | Complies |
| Cadmium (Cd) | ≤ 0.5 ppm | Complies |
| Mercury (Hg) | ≤ 0.1 ppm | Complies |

Microbiological Tests

| Analysis Item | Specification | Result |
|-----------------------|---------------------|-----------|
| Total plate count | $\leq 10,000$ CFU/g | 400 CFU/g |
| Mould | $\leq 1,000$ CFU/g | <10 CFU/g |
| Yeast | $\leq 1,000$ CFU/g | <10 CFU/g |
| E. coli | Negative | Negative |
| Salmonella | Negative | Negative |
| Staphylococcus aureus | Negative | Negative |

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