

# QUALITY SPECIFICATION

## Epimedium Extract

Catalog No.: NST-8-4

Source: *E.brevicornum Maxim.*

Part used: leaf

Shelf life: 24 months

| No. | Parameter          | Specification      | Method          |
|-----|--------------------|--------------------|-----------------|
| 1.  | Appearance         | Fine powder        | Visual          |
| 2.  | Color              | Brown              | Visual          |
| 3.  | Identification     | Conforms           | TLC             |
| 4.  | Assay (Icariin)    | ≥10.0 %            | HPLC            |
| 5.  | Odor               | Characteristic     | Organoleptic    |
| 6.  | Taste              | Characteristic     | Organoleptic    |
| 7.  | Sulfated ash       | ≤5.0 %             | Ph. Eur. 2.4.14 |
| 8.  | Loss on drying     | ≤5.0 %             | Ph. Eur. 2.8.17 |
| 9.  | Mesh size/sieve    | ≥95 % pass 80 mesh | 80 mesh         |
| 10. | Bulk density       | ≤0.8 g/ml          | Density meter   |
| 11. | Solvent residues   | Ph. Eur. 2.4.24    | Ph. Eur. 2.4.24 |
| 12. | Pesticide residues | EC 396/2005        | Third lab       |
| 13. | Ethylene oxide     | EC 396/2005        | HACCP           |
| 14. | Benzo[a]pyrene     | (EU) 2023/915      | HPLC            |
| 15. | PAHs               | (EU) 2023/915      | HPLC            |
| 16. | Heavy Metals       | ≤10 ppm            | ICP-MS          |
| 17. | Lead               | ≤2 ppm             | ICP-MS          |

|     |                              |                |           |
|-----|------------------------------|----------------|-----------|
| 18. | Arsenic                      | $\leq 1$ ppm   | ICP-MS    |
| 19. | Mercury                      | $\leq 0.1$ ppm | ICP-MS    |
| 20. | Cadmium                      | $\leq 1$ ppm   | ICP-MS    |
| 21. | TPC                          | $< 10^3$ CFU/g | AOAC, BAM |
| 22. | TYMC                         | $< 10^2$ CFU/g | AOAC, BAM |
| 23. | <i>Escherichia Coli</i>      | Absent         | AOAC, BAM |
| 24. | <i>Salmonella</i>            | Absent         | AOAC, BAM |
| 25. | <i>Staphylococcus aureus</i> | Absent         | AOAC, BAM |

Storage: store in a cool and dry place, keep away from strong light and heat

Stability: 24 months when properly stored