

## QUALITY SPECIFICATION

### Icariin

Catalog No.: NST-10-63

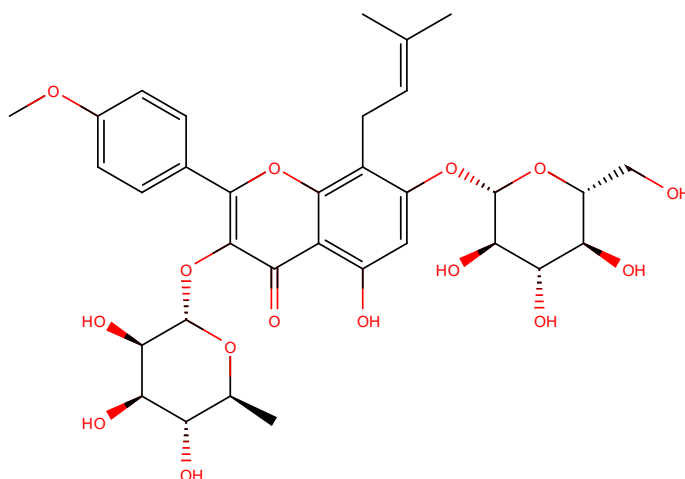
CAS No.: 489-32-7

Molecular formula: C<sub>33</sub>H<sub>40</sub>O<sub>15</sub>

MW: 676.66

Source: *Epimedium grandiflorum*

Part used: leaf&stem



| No. | Parameter       | Specification        | Method       |
|-----|-----------------|----------------------|--------------|
| 1.  | Appearance      | Fine Powder          | Visual       |
| 2.  | Color           | Light Yellow         | Visual       |
| 3.  | Purity          | ≥ 98.0 %             | HPLC         |
| 4.  | Odor            | Characteristic       | Organoleptic |
| 5.  | Taste           | Characteristic       | Organoleptic |
| 6.  | Loss on drying  | ≤ 3.0 %              | In house     |
| 7.  | Sulfated ash    | ≤ 2.0 %              | In house     |
| 8.  | Mesh size/sieve | NLT 95% pass 80 mesh | 80 mesh      |
| 9.  | Bulk density    | NMT 0.8 g/ml         | In house     |
| 10. | Benzo[a]pyrene  | <10 ppb              | HPLC         |
| 11. | Sum of PAHs     | <50 ppb              | HPLC         |
| 12. | Heavy Metals    | ≤10 ppm              | ICP-MS       |
| 13. | Lead            | ≤2 ppm               | ICP-MS       |
| 14. | Arsenic         | ≤1 ppm               | ICP-MS       |

|     |                              |                                     |               |
|-----|------------------------------|-------------------------------------|---------------|
| 15. | Mercury                      | ≤0.1 ppm                            | ICP-MS        |
| 16. | Cadmium                      | ≤1 ppm                              | ICP-MS        |
| 17. | TPC                          | Not more than 10 <sup>3</sup> CFU/g | ISO 6579:2002 |
| 18. | TYMC                         | Not more than 10 <sup>2</sup> CFU/g | ISO 6579:2002 |
| 19. | <i>Escherichia Coli</i>      | Absent                              | ISO 6579:2002 |
| 20. | <i>Salmonella</i>            | Absent                              | ISO 6579:2002 |
| 21. | <i>Staphylococcus aureus</i> | Absent                              | ISO 6579:2002 |

Storage: long term storage - airtight container +2 ... +8 °C

Stability: 24 months when properly stored