

## QUALITY SPECIFICATION

### Bergenin

Catalog No.: NST-10-194

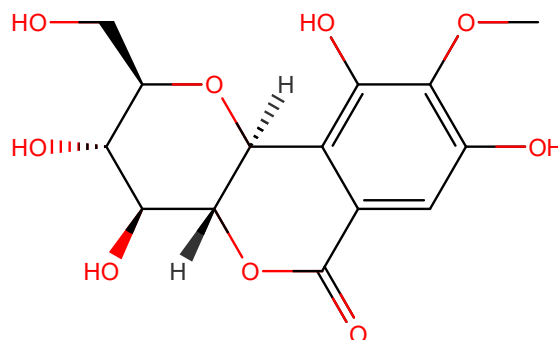
CAS No.: 477-90-7

Molecular formula: C<sub>14</sub>H<sub>16</sub>O<sub>9</sub>

MW: 328.27

Botanical name: *Bergenia purpurascens*

Part used: whole herb



| No. | Parameter         | Specification        | Method                  |
|-----|-------------------|----------------------|-------------------------|
| 1.  | Appearance        | Fine powder          | Visual                  |
| 2.  | Color             | White                | Visual                  |
| 3.  | Purity            | ≥ 98.0 %             | UV                      |
| 4.  | Odor              | Characteristic       | Organoleptic            |
| 5.  | Taste             | Characteristic       | Organoleptic            |
| 6.  | Melting point     | 232°C-240°C          | Melting point apparatus |
| 7.  | Sulfated ash      | ≤5.0 %               | In house                |
| 8.  | Loss on drying    | ≤5.0 %               | In house                |
| 9.  | Specific rotation | -38° to -45°         | Polarimeter             |
| 10. | Mesh size/sieve   | NLT 95% pass 80 mesh | 80 mesh                 |
| 11. | Bulk density      | NMT 0.8 g/ml         | In house                |
| 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