

## QUALITY SPECIFICATION

### Hesperetin

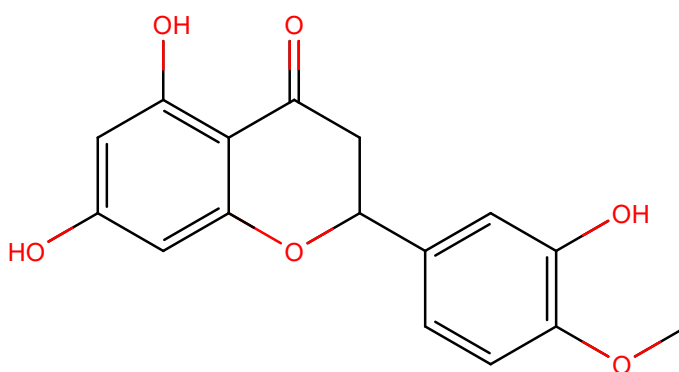
Catalog No.: NST-10-120

CAS No.: 520-33-2

Molecular formula: C<sub>16</sub>H<sub>14</sub>O<sub>6</sub>

MW: 302.28

Source: *Citrus aurantium L.*



| No. | Parameter       | Specification                       | Method        |
|-----|-----------------|-------------------------------------|---------------|
| 1.  | Appearance      | Fine powder                         | Visual        |
| 2.  | Color           | Light yellow to off-white           | Visual        |
| 3.  | Purity          | ≥ 98.0 %                            | HPLC          |
| 4.  | Odor            | Characteristic                      | Organoleptic  |
| 5.  | Taste           | Characteristic                      | Organoleptic  |
| 6.  | Sulfated ash    | ≤ 2.0 %                             | In house      |
| 7.  | Loss on drying  | ≤ 5.0 %                             | In house      |
| 8.  | Mesh size/sieve | NLT 95% pass 80 mesh                | 80 mesh       |
| 9.  | Bulk density    | NMT 0.8 g/ml                        | In house      |
| 10. | Heavy Metals    | ≤10 ppm                             | ICP-MS        |
| 11. | Lead            | ≤2 ppm                              | ICP-MS        |
| 12. | Arsenic         | ≤1 ppm                              | ICP-MS        |
| 13. | Mercury         | ≤0.1 ppm                            | ICP-MS        |
| 14. | Cadmium         | ≤1 ppm                              | ICP-MS        |
| 15. | TPC             | Not more than 10 <sup>3</sup> CFU/g | ISO 6579:2002 |

|     |                              |                                     |               |
|-----|------------------------------|-------------------------------------|---------------|
| 16. | TYMC                         | Not more than 10 <sup>2</sup> CFU/g | ISO 6579:2002 |
| 17. | <i>Escherichia Coli</i>      | Absent                              | ISO 6579:2002 |
| 18. | <i>Salmonella</i>            | Absent                              | ISO 6579:2002 |
| 19. | <i>Staphylococcus aureus</i> | Absent                              | ISO 6579:2002 |

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

Stability: 24 months when properly stored