

## QUALITY SPECIFICATION

### Apigenin

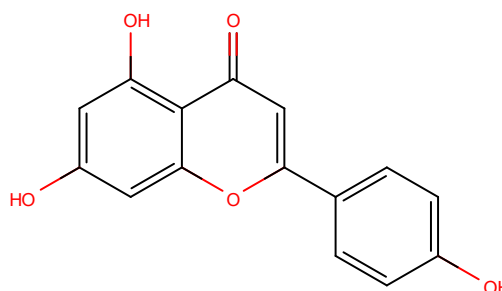
Catalog No.: NST-10-78

CAS No.: 520-36-5

Molecular formula: C<sub>15</sub>H<sub>10</sub>O<sub>5</sub>

MW: 270.24

Shelf life: 2 years



| No. | Parameter           | Specification        | Method       |
|-----|---------------------|----------------------|--------------|
| 1.  | Appearance          | Fine powder          | Visual       |
| 2.  | Color               | Light yellow         | Visual       |
| 3.  | Identification      | Conforms             | TLC          |
| 4.  | Assay               | ≥ 98.0 %             | HPLC         |
| 5.  | Odor                | Characteristic       | Organoleptic |
| 6.  | Taste               | Characteristic       | Organoleptic |
| 7.  | Residue on ignition | ≤ 2.0 %              | USP <281>    |
| 8.  | Loss on drying      | ≤ 5.0 %              | USP <731>    |
| 9.  | Mesh size/sieve     | NLT 95% pass 80 mesh | 80 mesh      |
| 10. | Bulk density        | NMT 0.8 g/ml         | USP <616>    |
| 11. | Solvent residues    | USP <467>            | GC           |
| 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 | USP <2021> |
| 18. | TYMC                         | Not more than 10 <sup>2</sup> CFU/g | USP <2021> |
| 19. | <i>Escherichia Coli</i>      | Absent                              | USP <2022> |
| 20. | <i>Salmonella</i>            | Absent                              | USP <2022> |
| 21. | <i>Staphylococcus aureus</i> | Absent                              | USP <2022> |

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

Stability: 24 months when properly stored