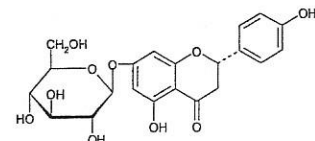


**INDOFINE Chemical Company, Inc.**

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**HPLC****Lot No.: 14100905****NARINGENIN-7-O-GLUCOSIDE****021160S****IDENTIFICATION**

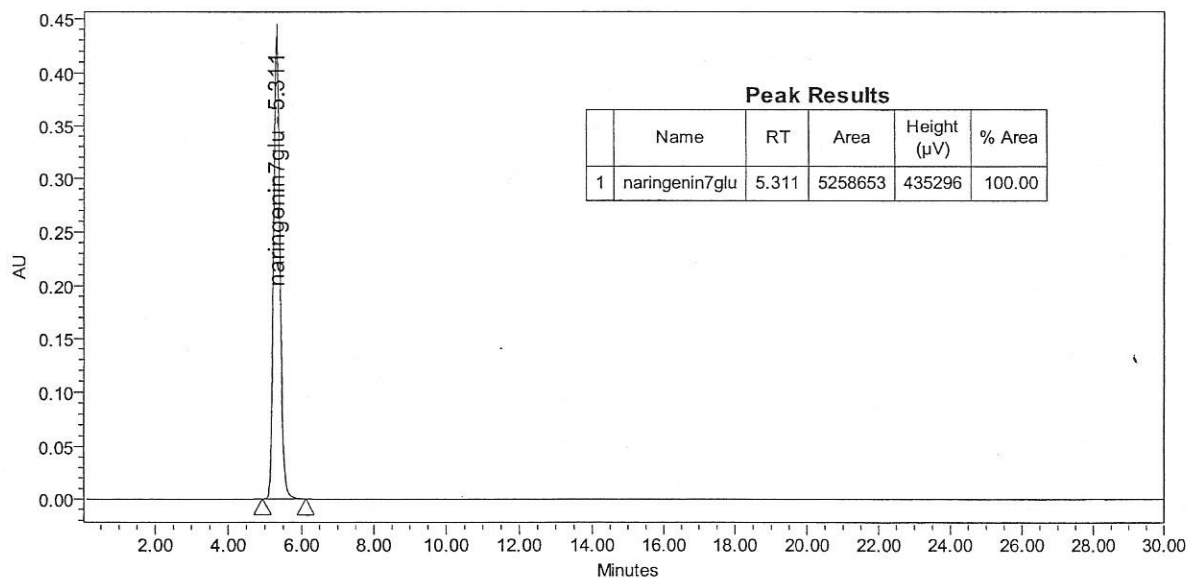
|                   |   |
|-------------------|---|
| CAS number        | [529-55-5]                                      |
| Chemical family   | Flavonoids                                      |
| Synonym           | Prunin  |
| Molecular formula | C <sub>21</sub> H <sub>22</sub> O <sub>10</sub> |
| Molecular weight  | 434.40  |

**CERTIFICATE OF ANALYSIS**

|                           |  |   |
|---------------------------|--|---|
| Appearance                | Cream powder   |   |
| Absorption maxima         | 283, 330 nm in methanol  |   |
| Moisture                  | 3.0%   |   |
| Residual solvents         | < 0.5%   |   |
| Thin layer chromatography | support  | Silicagel   |
|                           | solvent  | Ethyl acetate/methanol/water (100/25/10, V/V/V)                                     |
|                           | detection  | p-anisaldehyde/acetic acid/sulfuric acid (1/40/1:V/V/V) then heating at 110°C 10 mn |
| Storage                   | Store at room temperature in a dry and dark place. Place in a desiccator under vacuum before use |   |

**HIGH PERFORMANCE LIQUID CHROMATOGRAPHY**

|                |  |
|----------------|--|
| Column         | Symmetry Shield RP18® (4.6 x 150 mm), particle size 3.5 µm |
| Solvent        | Water + 5% acetic acid / Methanol (60/40, V/V)             |
| Flow rate      | 1 ml/min   |
| Detector       | UV visible 280 nm  |
| Sample solvent | Methanol   |



Assay by an HPLC method.

Date of last QC-recheck :

January 2014

Date of retest :

January 2018