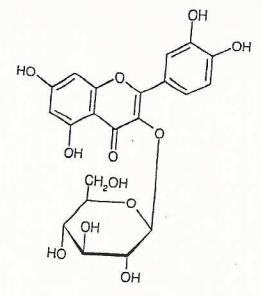




INDOFINE Chemical Company, Inc.

121 Stryker Lane, Building 30
Hillsborough, NJ 08844 USA
Phone: (908) 359-6778; Fax: (908) 359-1179



HPLC Lot No.: 13061431

QUERCETIN-3-O-GLUCOPYRANOSIDE 021327S

IDENTIFICATION

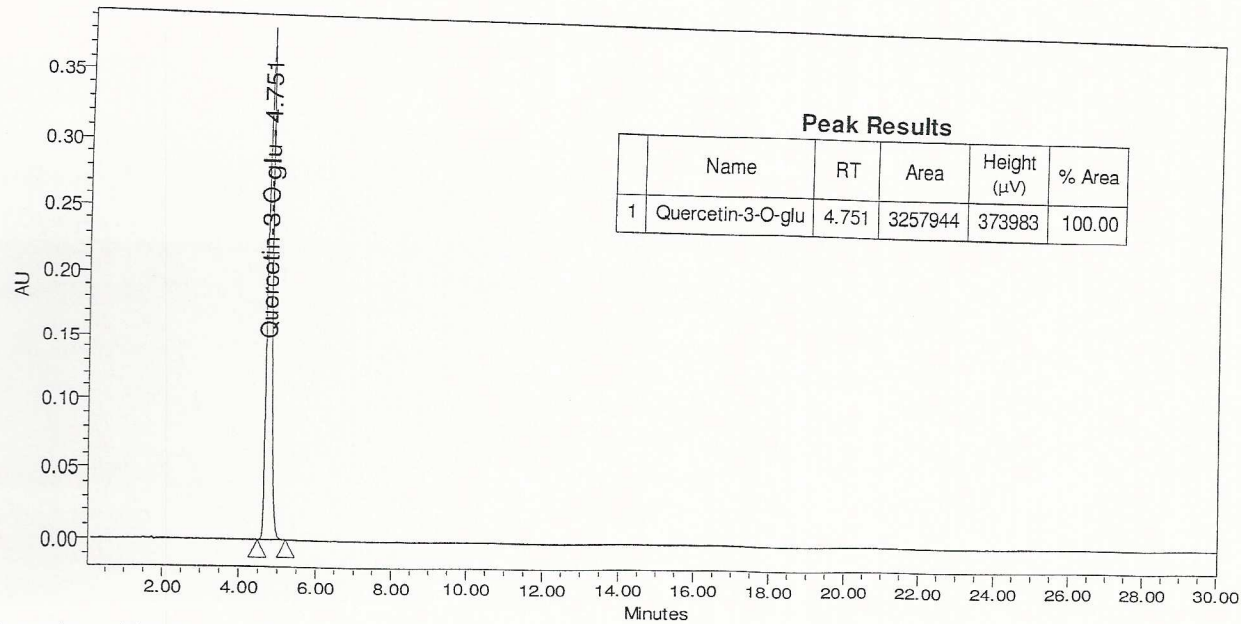
CAS number [482-35-9]
Chemical family Flavonoids
Molecular formula C₂₁H₂₀O₁₂
Molecular weight 464.38

CERTIFICATE OF ANALYSIS

Appearance Yellow powder
Moisture 4.9%
Residual solvents <0.5%
U.V. Spectrum 257, 267sh, 297sh, 358 nm in methanol
Thin layer chromatography support Silicagel
solvent Ethyl acetate/methylethylketone/formic acid/water (5/3/1/1, V/V/V/V)
detection U.V
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 + 0.3% H₃PO₄ / Methanol / Acetonitrile, (55/35/10, V/V/V)
Flow rate 1 ml/mn
Detector UV visible 254 nm
Sample solvent Methanol



| Peak Results | | | | | |
|--------------|-------------------|-------|---------|-------------|--------|
| | Name | RT | Area | Height (µV) | % Area |
| 1 | Quercetin-3-O-glu | 4.751 | 3257944 | 373983 | 100.00 |

Assay by an HPLC method.

Date of last QC-recheck : September 2012
Date of retest : September 2014

The values given on the 'Certificate of Analysis' are the results determined at the time of analysis.