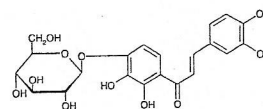




INDOFINE Chemical Company, Inc.

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HPLC Lot No.: 14011304

MAREIN 020059S

IDENTIFICATION

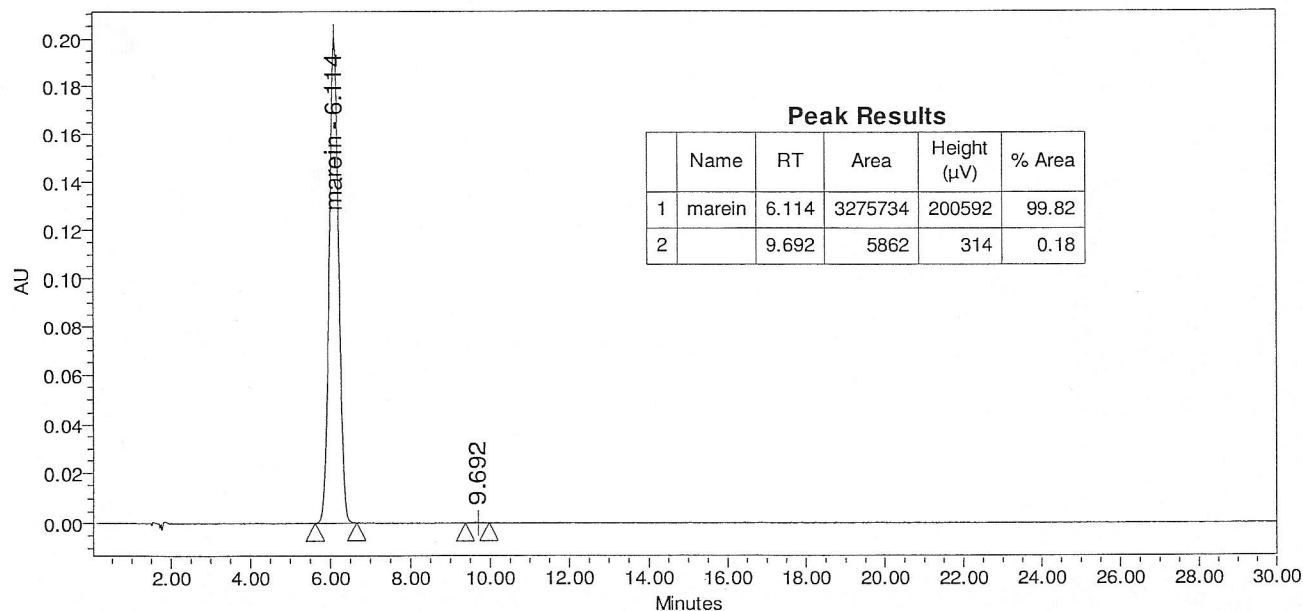
CAS number	[535-96-6]
Chemical family	Flavonoids
Chemical names	Okanin-4'-O-glucoside; 2',3,3',4,4'-Pentahydroxy-4'-glucosylchalcone
Molecular formula	C ₂₁ H ₂₂ O ₁₁
Molecular weight	450.4

CERTIFICATE OF ANALYSIS

Appearance	Orange powder
Melting point	196-197°C
Moisture	2.0 %
Residual solvents	< 0.5%
Absorption maxima	266, 316sh, 384 nm in ethanol
Thin layer chromatography	support Silicagel solvent Ethyle acetate/methanol/water (100/25/10, V/V/V) detection p-Anisaldehyde/acetic acid/sulfuric acid (1/40/1, V/V/V) 10mn at 110°C
Storage	Store at room temperature in a dry and dark place. Place in a desiccator under vacuum for 48 hours 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 380 nm
Sample solvent	Ethanol



Assay by an HPLC method.

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