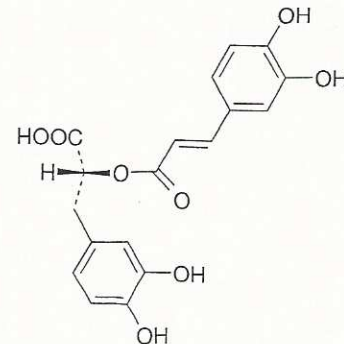




INDOFINE Chemical Company, Inc.

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HPLC

Lot No.: 13052212

ROSMARINIC ACID

024957S

IDENTIFICATION

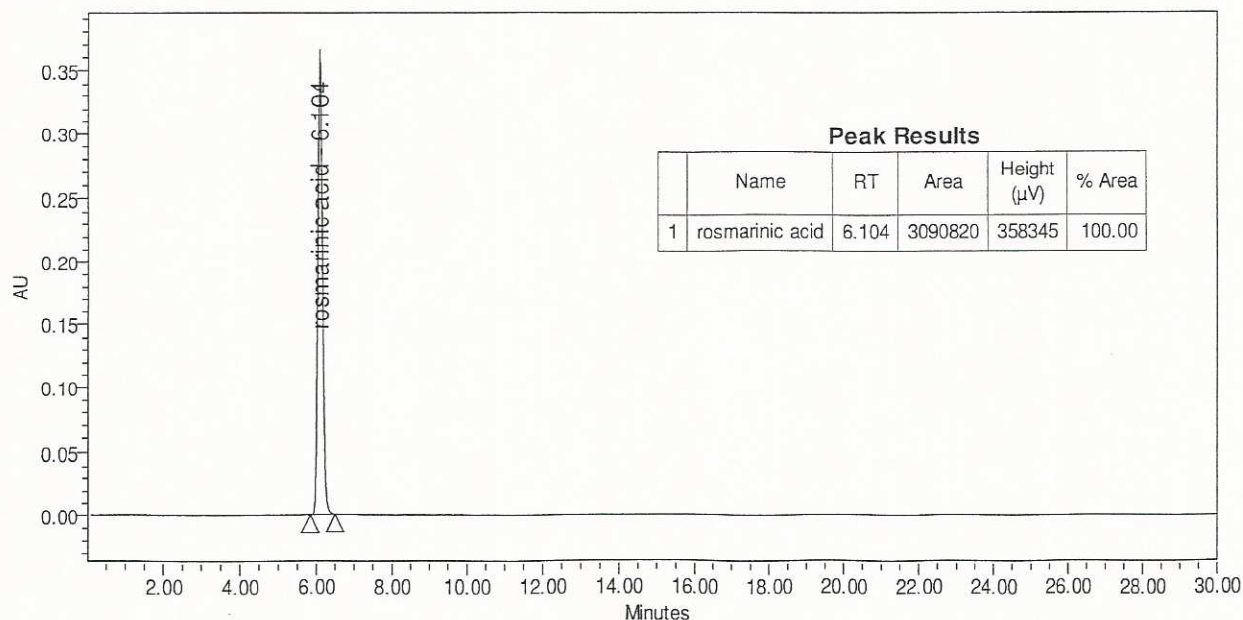
CAS number	[20283-92-5]
Chemical family	Phenolic acids and derivatives
Molecular formula	C ₁₈ H ₁₆ O ₈
Molecular weight	360.33

CERTIFICATE OF ANALYSIS

Appearance	Beige coloured powder
Absorption maxima	290sh, 324 nm in water
Melting point	172-173°C
Moisture	< 0.5%
Residual solvents	< 0.5%
[α] _D	+112° (c=0.5 in ethanol)
Thin layer chromatography	support Silicagel solvent Ethylacetate/formic acid/acetic acid (50/3/3, 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 + 5% acetic acid / Acetonitrile (75/25, V/V)
Flow rate	1ml/mn
Detector	UV visible 330 nm
Sample solvent	Water



Assay by an HPLC method.

Date of last QC-recheck *March 2013*
Date of retest *March 2017*

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