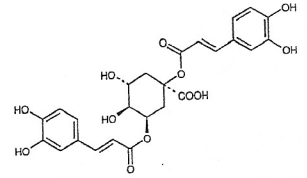




INDOFINE Chemical Company, Inc.

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HPLC

Lot No.: 12070902

CYNARIN

024995S

IDENTIFICATION

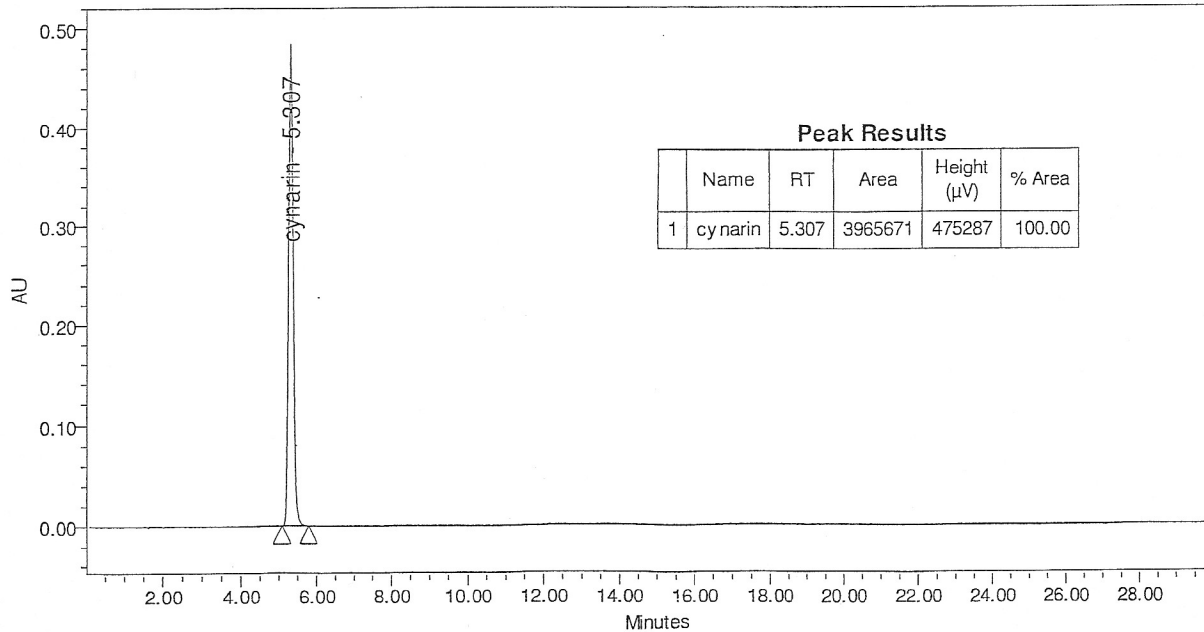
CAS number	[30964-13-7]
Synonym name	1,3-Dicaffeoylquinic acid
Chemical family	Phenolic acids and derivatives
Molecular formula	C ₂₅ H ₂₄ O ₁₂
Molecular weight	516.46

CERTIFICATE OF ANALYSIS

Appearance	White powder
Thin layer chromatography	support Silicagel
	solvent Ethyl acetate/Formic acid/Water (10/2/3, V/V/V)
	detection U.V.
Moisture	2.4%
Residual solvent	< 0.5%
[α] _D	-54° c=0.3 in methanol
Absorption maxima	247, 302sh, 327 nm in ethanol
Storage	Store at room temperature in a dry and dark place. Place in a desiccator under vacuum before use.
	To be kept away from light.

HIGH PERFORMANCE LIQUID CHROMATOGRAPHY

Column	Symmetry Shield RP18® (4.6 x 150 mm), particle size 3.5 μm
Solvent	Water + 0.3% H ₃ PO ₄ / Acetonitrile (80/20, V/V)
Flow rate	1ml/mn
Detector	UV visible 330 nm
Sample solvent	Ethanol / Water (50/50, V/V)



Assay by an HPLC method

Date of last QC-recheck: February 2012
Date of retest: February 2016

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