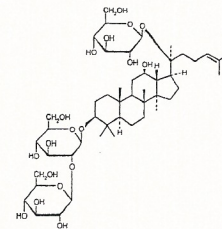


**INDOFINE Chemical Company, Inc.**

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**HPLC****Batch: 15****GINSENOSIDE Rd****020102S****IDENTIFICATION**

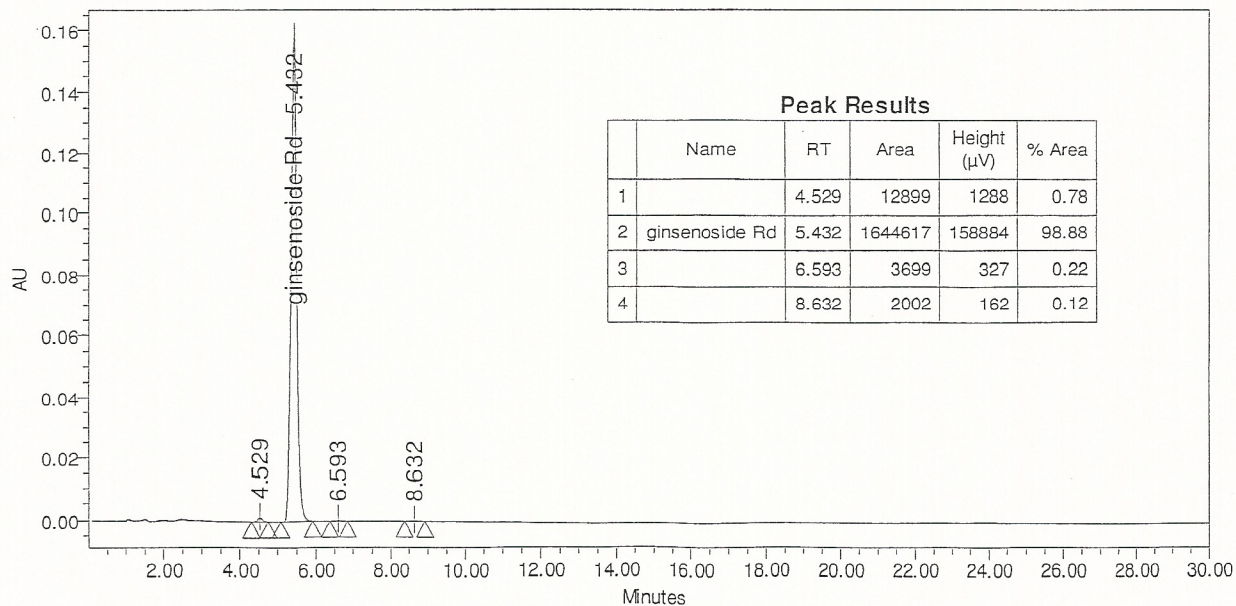
CAS number	[52705-93-8]
Chemical family	Saponins
Molecular formula	C ₄₈ H ₈₂ O ₁₈
Molecular weight	947.18

CERTIFICATE OF ANALYSIS

Appearance	White powder
Moisture	2.5 %
Residual solvents	<0.5%
Thin layer chromatography	Support Silicagel
	Solvent Methylene chloride / methanol / water(30/15/2:V/V/V)
	Detection p-Anisaldehyde/acetic acid/sulfuric acid (1/40/1:V/V/V)
	then heating 10 mn at 110°C
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 / Acetonitrile (64/36, V/V)
Flow rate	1ml/mn
Detector	UV visible 200 nm
Sample solvent	Mobile phase



Assay by an HPLC method.

Date of last QC-recheck June 2012

Date of retest June 2014

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