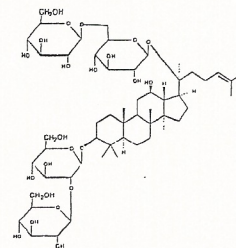


**INDOFINE Chemical Company, Inc.**

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Phone: (908) 359-6778; Fax: (908) 359-1179

**HPLC****Batch: 33****GINSENOSIDE Rb1****020105S****IDENTIFICATION**

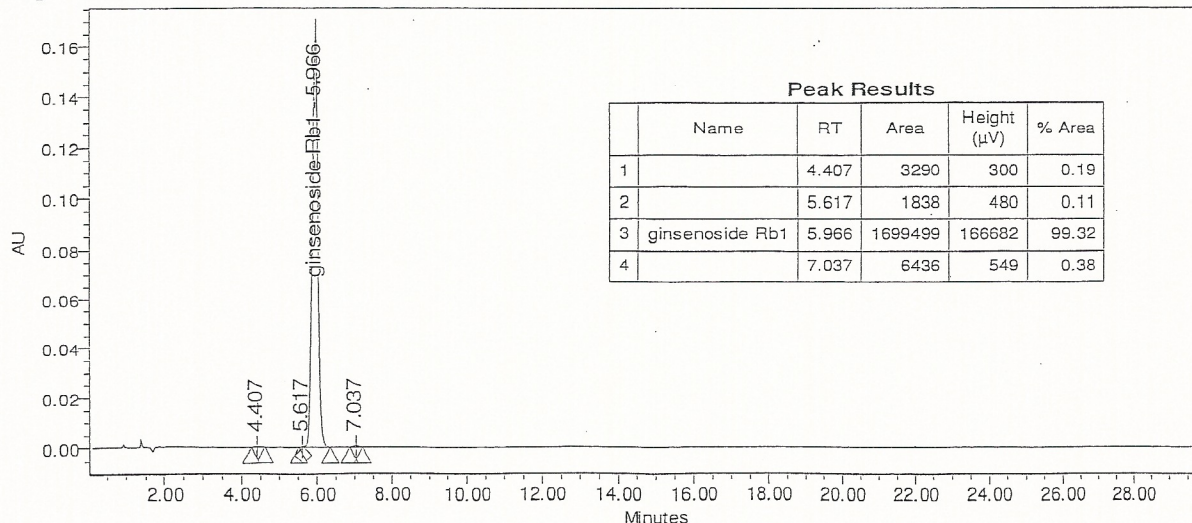
CAS number [41753-43-9]
Chemical family Saponins
Molecular formula $C_{54}H_{92}O_{23}$
Molecular weight 1109.32

CERTIFICATE OF ANALYSIS

Appearance White powder
Moisture 6.2 %
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 This product is stable at ambient temperature for several weeks. However, optimum long-term storage may require lower temperature (<-18°C)
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 (68/32, 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

August 2012

Date of retest

August 2014

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