

**INDOFINE Chemical Company, Inc.**

121 Stryker Lane, Bldg. 30, Suite 1
 Hillsborough, NJ 08844 USA
 Phone: (908) 359-6778; Fax: (908) 359-1179

H P L C**Batch: 19****BETULIN****020018S****IDENTIFICATION**

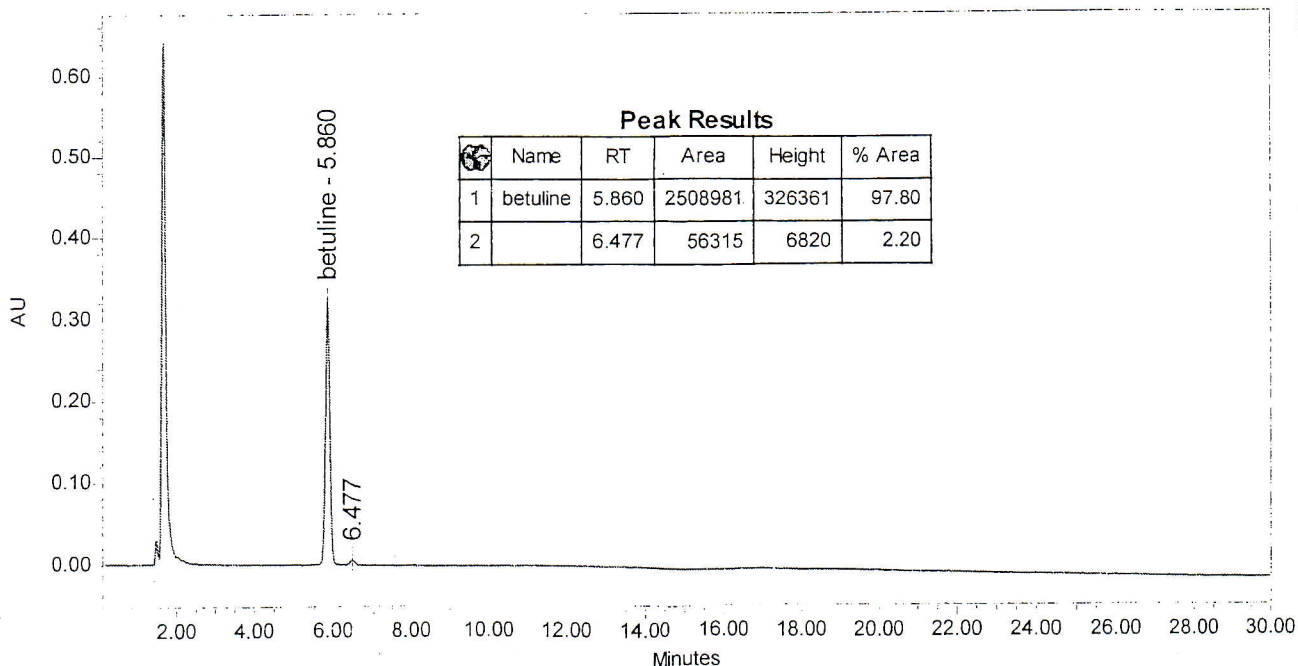
CAS number [473-98-3]
 Chemical family Triterpenoids
 Chemical names Lup-20(29)-ene-3 β ,28-diol
 Molecular formula C₃₀H₅₀O₂
 Molecular weight 442.71

CERTIFICATE OF ANALYSIS

Appearance White powder
 Melting point 254-256°C
 α_D +17.2° c=1 in pyridine
 Thin layer chromatography support Silicagel
 solvent Methylene chloride/methanol (97/3, V/V)
 detection p-anisaldehyde/acetic acid/sulfuric acid (1/40/1, V/V/V) then heating at 110°C 10 mn
 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 μ m
 Solvent Water / Acetonitrile (5/95, V/V)
 Flow rate 1 ml/mn
 Detector UV visible 200 nm
 Sample solvent Methanol



Product no-certified. Assay by an HPLC method.

Date of last QC-recheck : 07/21/06

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