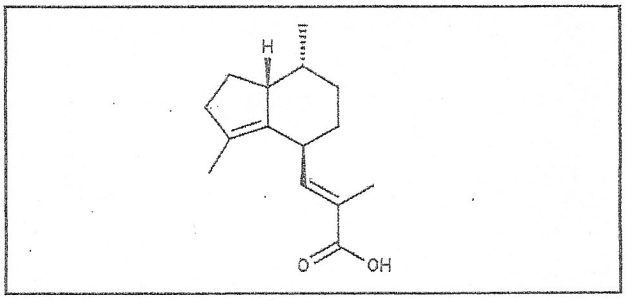
**INDOFINE Chemical Company, Inc.**
121 Stryker Lane, Bldg. 30
Hillsborough, NJ 08844 USA
Phone: (908) 359-6778; Fax: (908) 359-1179

# Certificate Of Analysis

## 023801S VALERENIC ACID Lot No.: 25072645

| | |
|---|---|
| CAS RN | 3569-10-6 |
| MOL FORMULA | $C_{15}H_{22}O_2$ |
| MOL WEIGHT | 234,35 |

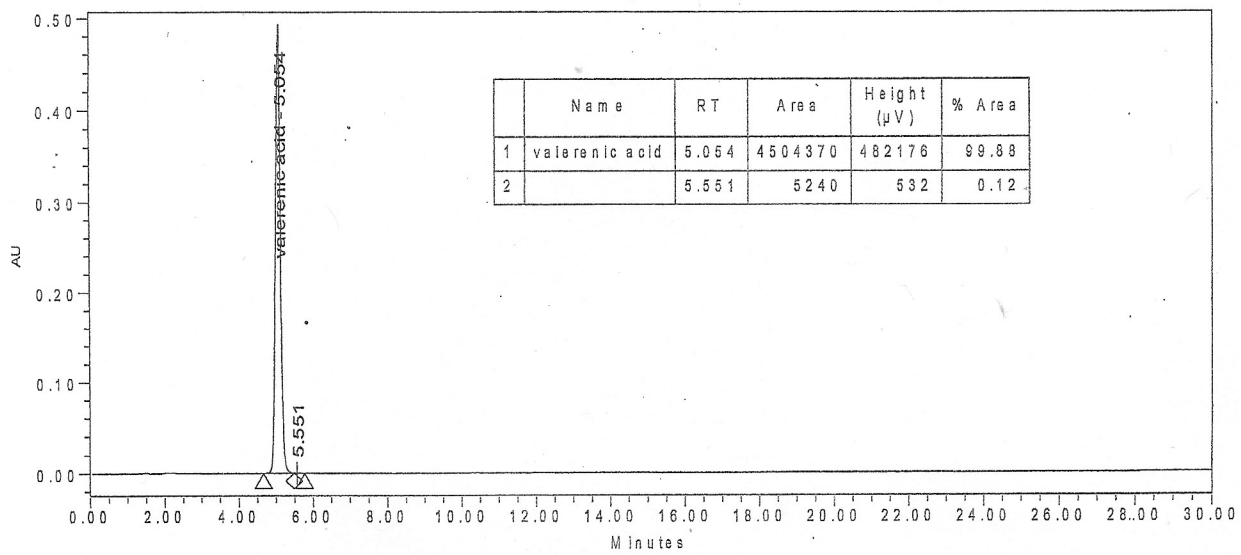



| TEST | METHOD | UNIT | SPECIFICATION | RESULT |
|---|---|---|---|---|
| Appearance | Visual | | White to beige powder | Conform |
| Chirality | Optical rotation | ° | c=0,5 in EtOH, 20°C | - 124 |
| Water content | KF | % w/w | | 0,4 |
| Residual solvents | GC-HS | % w/w | | < 0,1 |
| Inorganics | ICP-MS | % w/w | | 0,1 |
| Purity | HPLC | % area | ≥ 98,0 | 99,9 |
| **Assay** | **Calculated (*)** | **% w/w** | | **99,4** |

(*) Assay = Purity by HPLC x (100 - %water - %solvents - %inorganics)

CHROMATOGRAPHIC PURITY / HPLC

| | | | |
|---|---|---|---|
| Column : | Novapak C18 - 4,6x150 mm - 4 µm | Temperature : | 30°C |
| Mobile phase : | Water + 0,1% $H_3PO_4$ 20 / MeOH 80 (v/v) | Flow rate : | 1 ml/min |
| Detection : | UV 220 nm | Injection volume : | 5 µl |
| | | Injection solvent : | ACN |




| | Name | RT | Area | Height (µV) | % Area |
|---|---|---|---|---|---|
| 1 | valerenic acid | 5.054 | 4504370 | 482176 | 99.88 |
| 2 | | 5.551 | 5240 | 532 | 0.12 |

LONG TERM STORAGE : Below 8°C in a dry and dark place