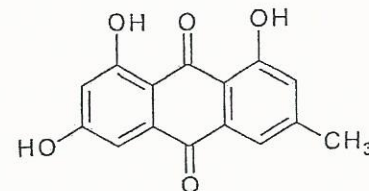




# INDOFINE Chemical Company, Inc.

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## HPLC

## Lot No.: 13071013

# EMODIN

# 020453S

### IDENTIFICATION

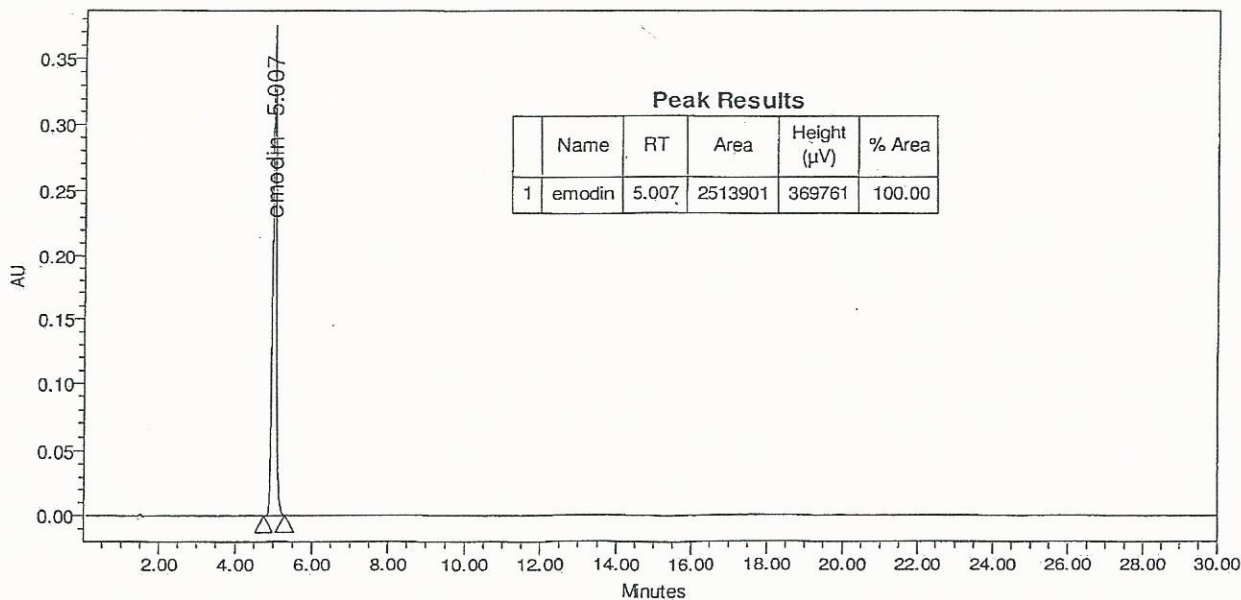
|                   |  |
|-------------------|--|
| CAS number        | [518-82-1]                                     |
| Chemical family   | Quinones-Anthraquinones                        |
| Chemical name     | 4,5,7-trihydroxy-2-methylanthraquinone         |
| Molecular formula | C <sub>15</sub> H <sub>10</sub> O <sub>5</sub> |
| Molecular weight  | 270.25   |

### CERTIFICATE OF ANALYSIS

|                           |  |
|---------------------------|--|
| Appearance                | Orange powder  |
| Melting point             | 261-262°C  |
| Moisture                  | 5.3%   |
| Residual solvents         | <0.5%  |
| Thin layer chromatography | support Silicagel<br>solvent Heptane / Ethyl acetate (50/50, V/V)<br>detection U.V-Visible                         |
| Absorption maxima         | 291, 438, 459sh nm in ethanol (0.5% acetone)   |
| Storage                   | <b>Irritant.</b> 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 + 5% acetic acid / Methanol / Acetonitrile (10/80/10, V/V/V) |
| Flow rate      | 1 ml/min   |
| Detector       | 430 nm   |
| Sample solvent | Acetone / ethanol (2/18, V/V)                                      |



Assay by an HPLC method.

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