



# INDOFINE Chemical Company, Inc.

121 Stryker Lane, Bldg. 30, Suite 1 • Hillsborough, NJ 08844 • U.S.A.

Phone: (908) 359-6778 • FAX: (908) 359-1179

website: [www.indofinechemical.com](http://www.indofinechemical.com)

e-mail: [chemical@indofinechemical.com](mailto:chemical@indofinechemical.com)

## CERTIFICATE OF ANALYSIS

Catalog Number: P-004

Product Name: **PIPERLONGUMINE**  
(Piplartine)

CAS Number: [20069-09-4]

Lot No.: 2112630

Molecular Formula: C<sub>17</sub>H<sub>19</sub>NO<sub>5</sub>

Molecular Weight: 317.34

Melting Point: 121-125°C

Appearance: White powder

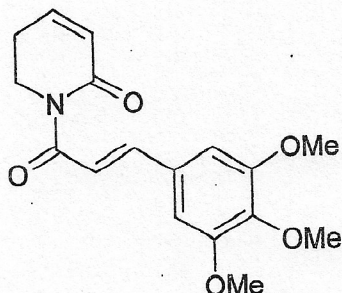
Solubility: Soluble in Chloroform

NMR Spectrum: Conforms to the structure

TLC: Hexane:Ethyl acetate (7:3)

Water content(KF): 0.32%

Purity(HPLC): 99.91%



Prepared by:  
*Ramesh Mandadi*  
Ramesh Mandadi  
Director of Operations

Reviewed and Approved by:  
*Sujata Moton*  
Sujata Moton  
VP



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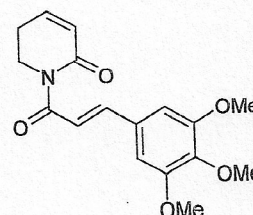
e-mail: [chemical@indofinechemical.com](mailto:chemical@indofinechemical.com)

## HPLC ANALYSIS

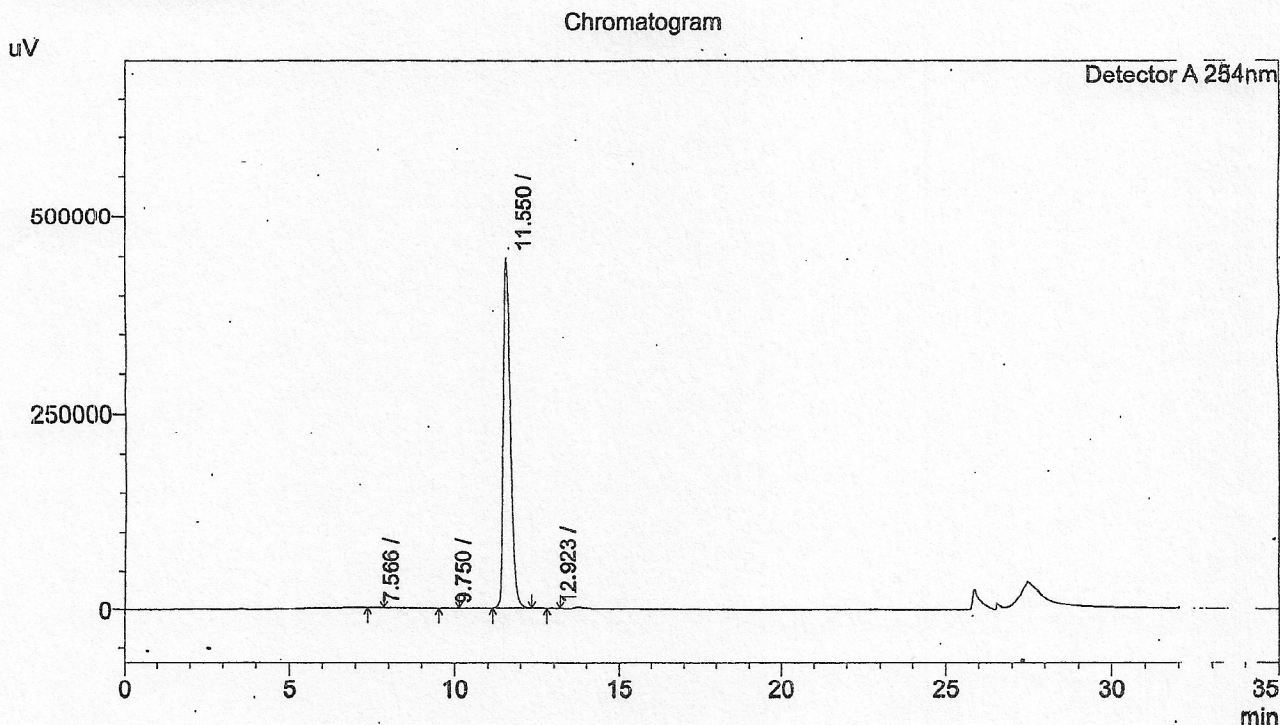
Sample ID :  
Data Filename : 30112021206.lcd  
Method Filename : Linear Isocratic Method.lcm  
Vial # : 1-3  
Injection Volume : 10 uL

Catalog No.: P-004  
Product Name: Piperlongumine  
Lot No.: 2112630

Column: Inertsil ODS-2 : 250mm x 4.6mm, 5.0um  
MP-A: Acetonitrile, MP-B: 10mM Ammonium acetate in water  
Flow Rate: 1.0 ml/min,  
Gradient program : 0.01/90, 12/10, 20/10, 23/90, 30/10 (% of A Conc)  
Diluent: Acetonitrile (8 mg/25ml in diluent)  
Acquired by: Sanjeev



### <Chromatogram>



### <Peak Table>

Detector A 254nm

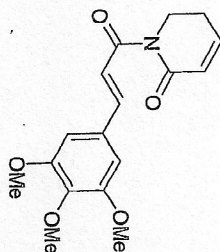
Peak#	Name	Ret. Time	Area	Area%	Relative Retention Time
1		7.566	722	0.01	0.65
2		9.750	3419	0.05	0.84
3		11.550	6667416	99.91	1.00
4		12.923	2147	0.03	1.12
Total			6673705	100.00	

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Director of Operations

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VP



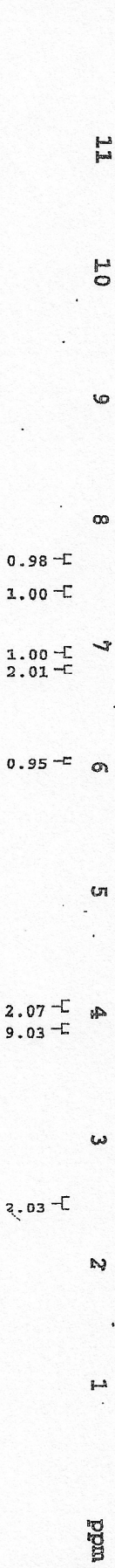
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Catalog No.: P-004  
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Lot No.: 2112630

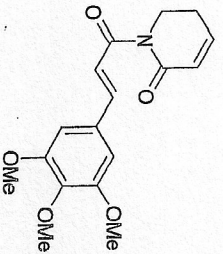
<sup>1</sup>H NMR

VARIAN 400MHZ NMR  
Solvent: CDCl<sub>3</sub>



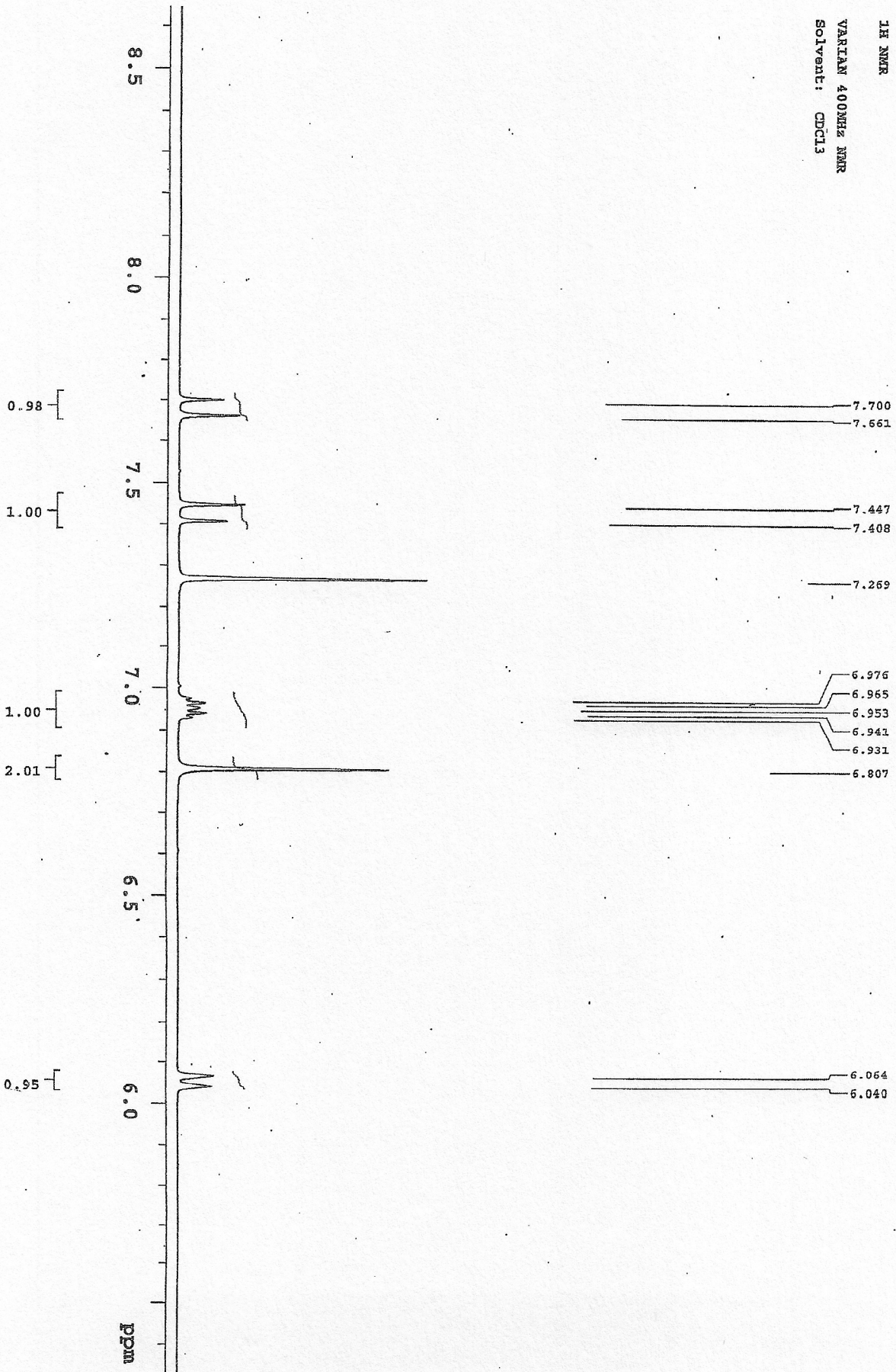


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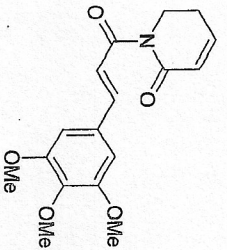
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<sup>1</sup>H NMR  
VARIAN 400MHz NMR  
Solvent: CDCl<sub>3</sub>





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<sup>1</sup>H NMR  
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Solvent: CDCl<sub>3</sub>

