



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

e-mail: chemical@indofinechemical.com

CERTIFICATE OF ANALYSIS

Catalog Number: H-005

Product Name: **HARMINE**

CAS Number: [442-51-3]

Lot No.: 2010477

Molecular Formula: C₁₃H₁₂N₂O

Molecular Weight: 212.25

Appearance: Off-white powder

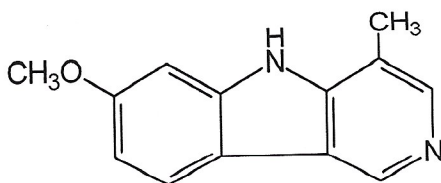
Melting Point: 265-267°C

Water Content: 0.16%

TLC: Chloroform:Methanol (9:1)

Storage: Store in a cool, dry place.
Keep package airproofed when not in use.

Purity (HPLC): 99.59%



Prepared by:
Ramesh Mandadi
Ramesh Mandadi
Director of Operations

Reviewed and Approved by:
Sujata Moton
Sujata Moton
VP



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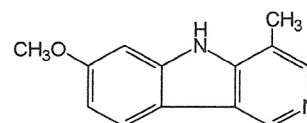
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HPLC ANALYSIS

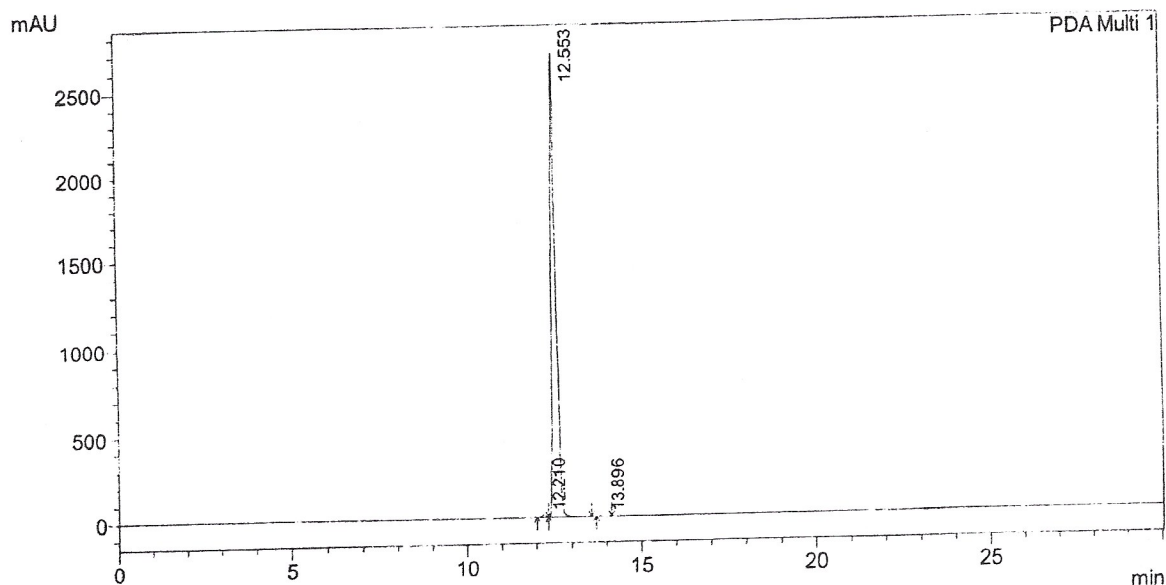
Acquired by : Sanjeev
Sample Name : Harmine
Sample ID :
Vial # : 4
Injection Volume : 20 uL
Data File Name : 21092020299.lcd
Method File Name : General Method (A-C).lcm

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Column: Inertsil ODS-3V : 250 x 4.6mm, 5u
Flow Rate: 1.0 ml/min
MP-A: 20mM KH₂PO₄ (Adj pH-3, with OPA): MP-B: Methanol
Gradient Program: 0.01/10, 12/90, 20/90, 23/10, 30/10 (% of B Conc)
Diluent: Methanol

<Chromatogram>



1 PDA Multi 1/320nm 4nm

Peak Table

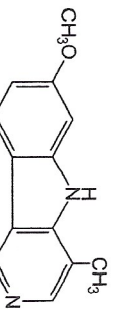
Peak#	Name	Ret. Time	Area	Area %	Relative Retention Time
1	HRMLN	12.210	90938	0.39	0.973
2	HRMN	12.553	23412141	99.59	1.000
3	RT:13.896	13.896	6523	0.03	1.107
Total			23509602	100.00	

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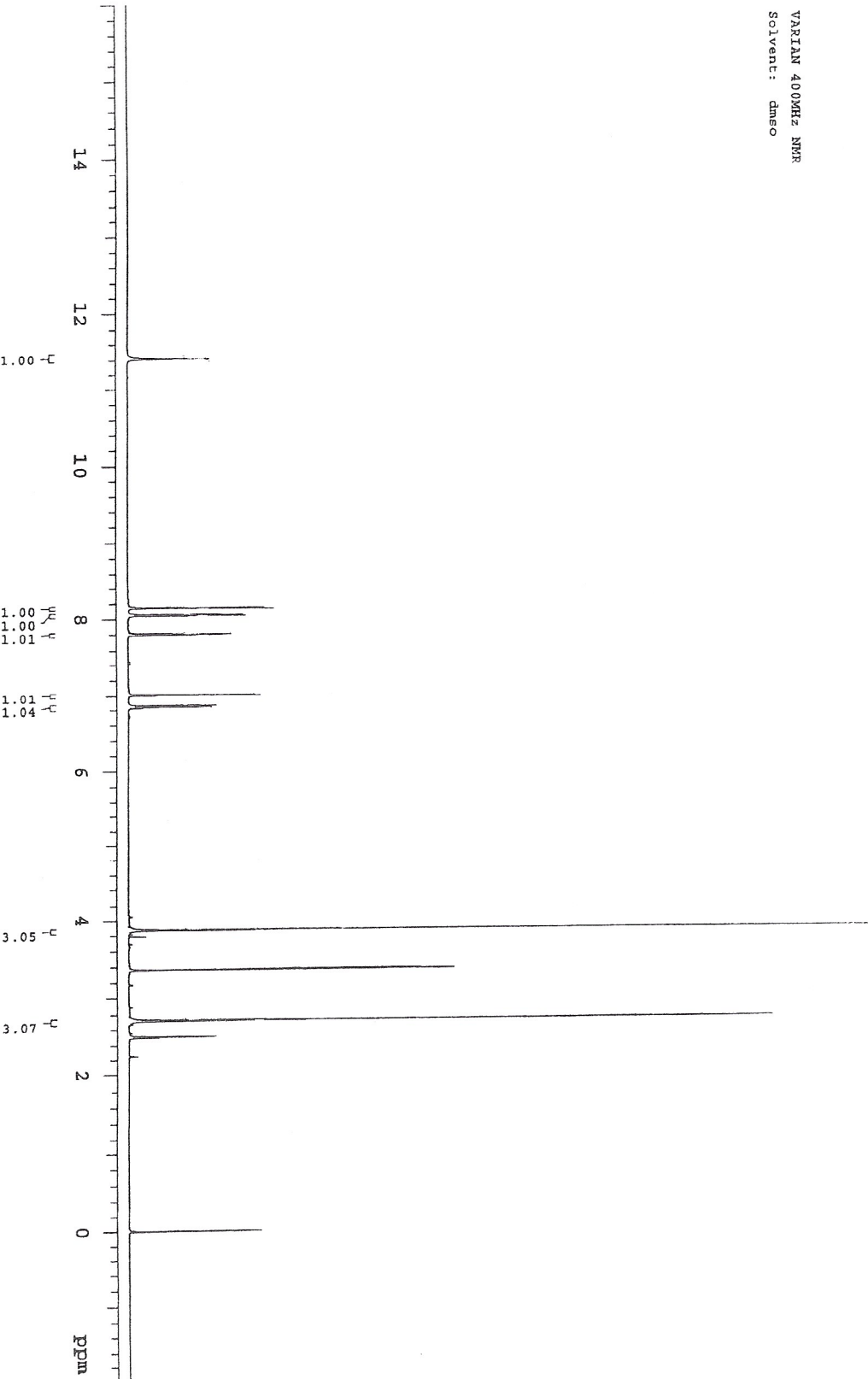


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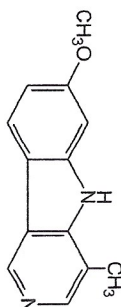
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VARIAN 400MHZ NMR
Solvent: dmsO





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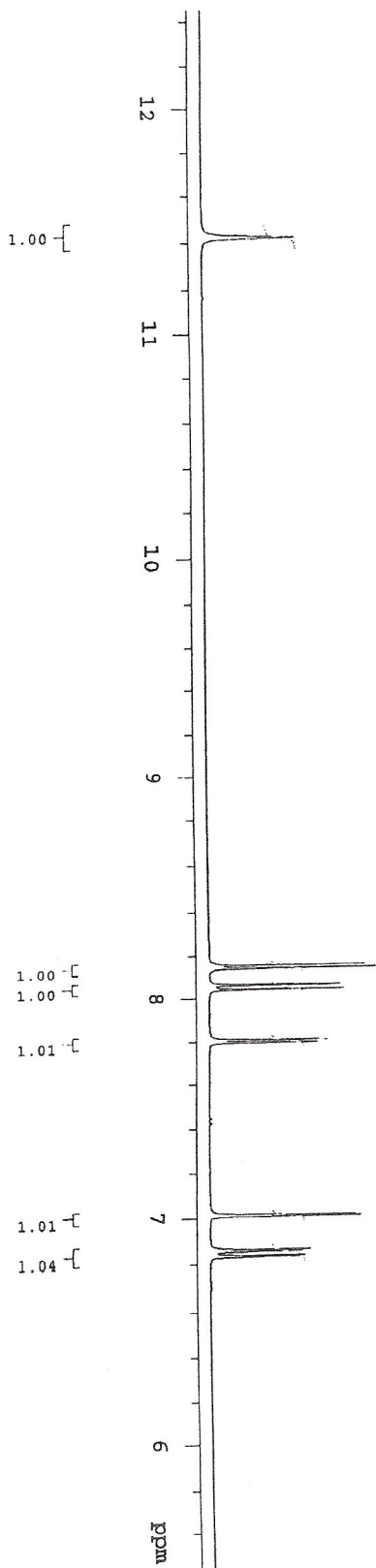
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11.451

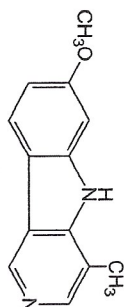
8.154
8.140
8.063
8.041
7.810
7.797

7.014
7.008
6.857
6.851
6.835
6.830

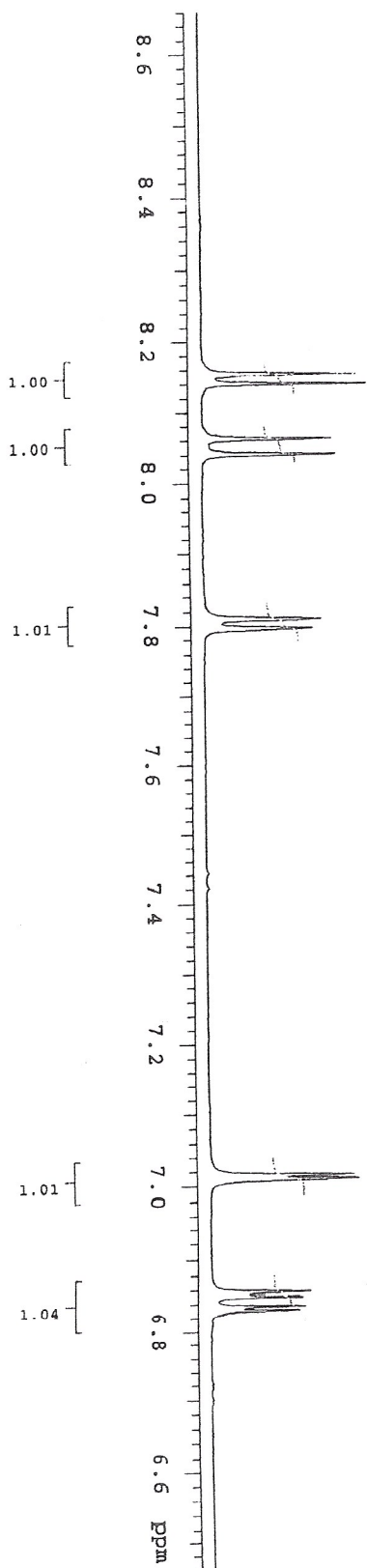




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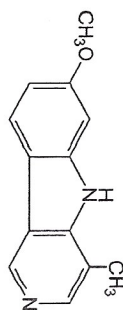
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