



INDOFINE Chemical Company, Inc.

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

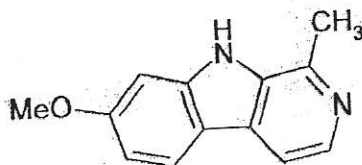
Phone: (908) 359-6778 • FAX: (908) 359-1179

website: www.indofinechemical.com

e-mail: chemical@indofinechemical.com

CERTIFICATE OF ANALYSIS

<u>Catalog Number:</u>	H-005
<u>Product Name:</u>	HARMINE
<u>CAS Number:</u>	[442-51-3]
<u>Lot No.:</u>	1412146
<u>Molecular Formula:</u>	C ₁₃ H ₁₂ N ₂ O
<u>Molecular Weight:</u>	212.25
<u>Appearance:</u>	Dark Cream Powder
<u>Melting Point:</u>	264-266°C
<u>Moisture (KF):</u>	0.42%
<u>TLC:</u>	Chloroform:Methanol (9:1)
<u>NMR Spectrum:</u>	Enclosed (Conforms to the structure)
<u>Purity (HPLC):</u>	99.53%





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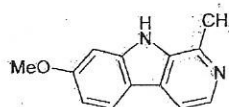
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HPLC ANALYSIS

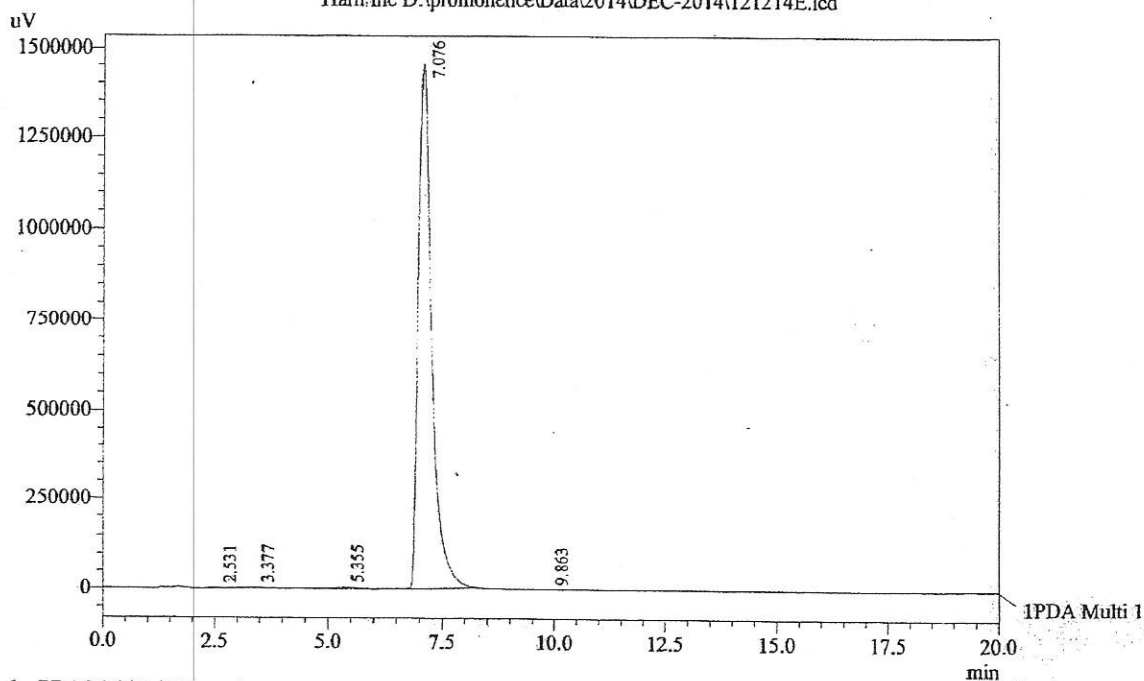
Acquired by : Sanjeev
Sample Name : Harmine
Sample ID : 1.2 Kgs Lot
Injection Volume : 20 uL
Data Filename : 121214E.lcd
Method Filename : Linear Isocratic.M.lcm

Catalog No.: H-005
Product Name: Harmine
Lot No.: 1412146



Column : Inertsil ODS-3V, (250mm x4.6mm 5.0μ)
Flow : 1.500 mL/min.
Mobile Phase : Phosphate Buffer : Acetonitrile (550:450)
Diluent : Methanol

Chromatogram
Harmine D:\promonence\Data\2014\DEC-2014\121214E.lcd



1 PDA Multi 1 / 240nm 4nm

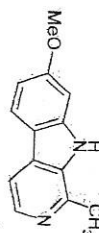
PeakTable

PDA Ch1 240nm 4nm

Peak#	Name	Ret. Time	Area	Area %	Relative Retention Time
1	RT:2.531	2.531	8373	0.03	0.36
2	RT:3.377	3.377	24695	0.08	0.48
3	Harmaline	5.355	101475	0.34	0.76
4	Harmine	7.076	29749671	99.53	1.00
5	RT:9.863	9.863	4804	0.02	1.39
Total			29889018	100.00	

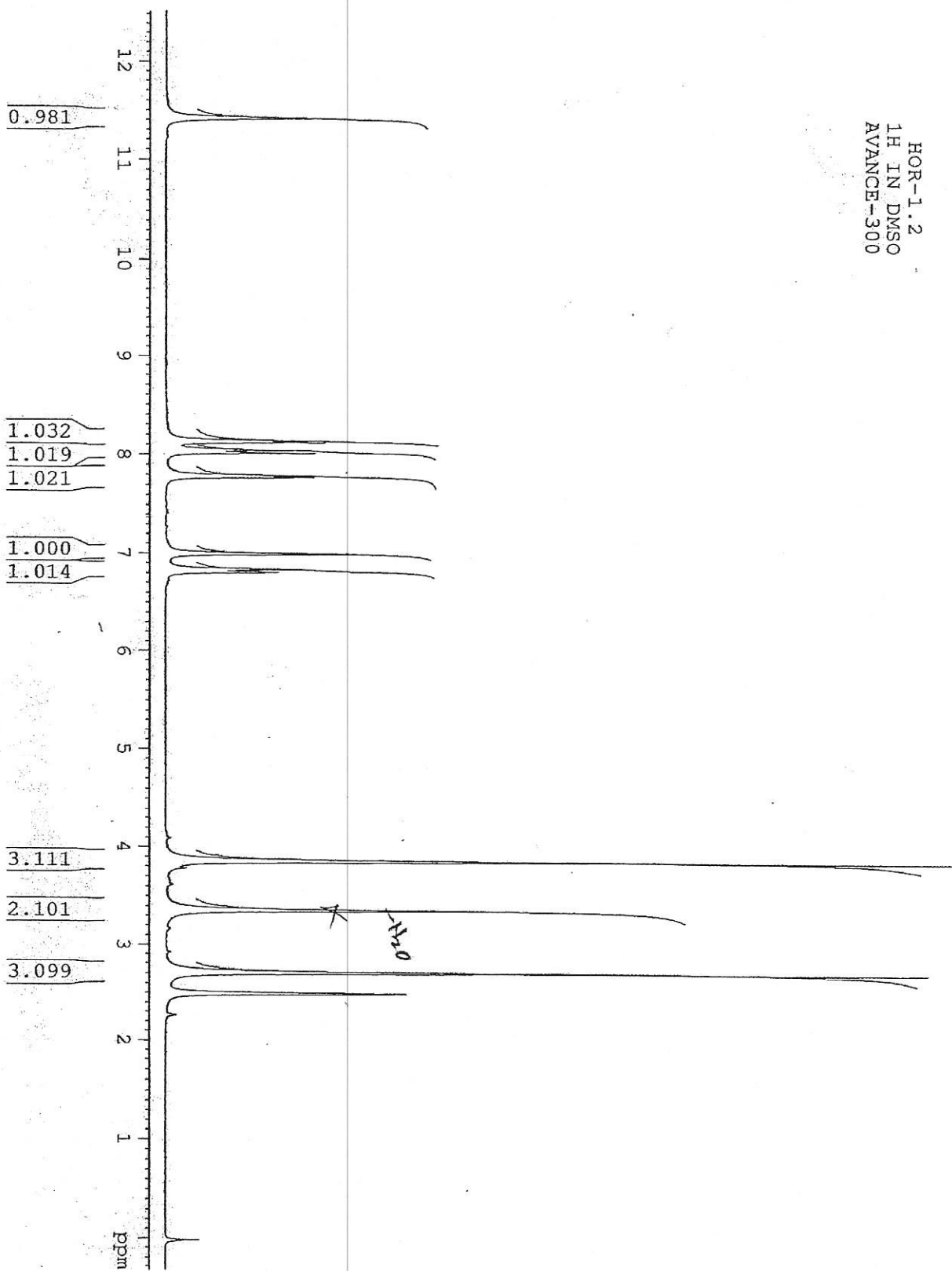


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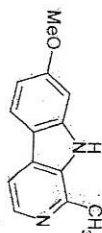
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Product Name: Harmine
Lot No.: 1412146

HOR-1.2
1H IN DMSO
AVANCE-300





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