



INDOFINE Chemical Company, Inc.

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

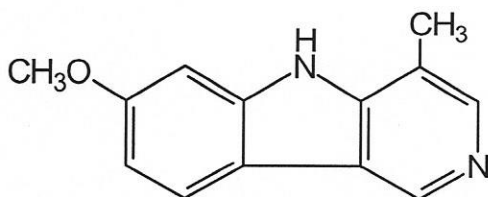
Phone: (908) 359-6778 • FAX: (908) 359-1179

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>	1504583
<u>Molecular Formula:</u>	$C_{13}H_{12}N_2O$
<u>Molecular Weight:</u>	212.25
<u>Appearance:</u>	Off-white crystalline powder
<u>Melting Point:</u>	263-266°C
<u>Moisture (KF):</u>	0.28%
<u>TLC:</u>	Chloroform:Methanol (9:1)
<u>NMR Spectrum:</u>	Enclosed (Conforms to the structure)
<u>Purity (HPLC):</u>	99.92%





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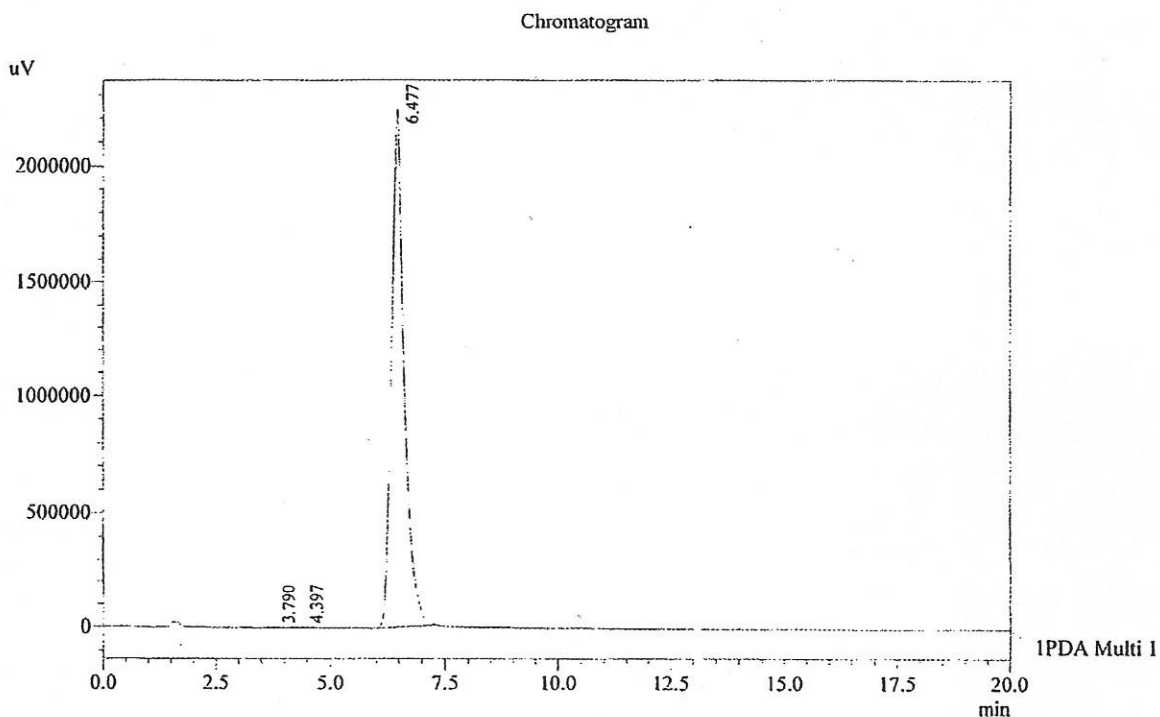
e-mail: chemical@indofinechemical.com

HPLC ANALYSIS

Acquired by : Admin
Sample Name : Harmine
Sample ID : 1.25 Kg Lot
Injection Volume : 20 uL
Data Filename : 070415H.lcd
Method Filename : Linear Isocratic.M.lcm

Catalog No.: H-005
Product Name: Harmine
Lot No.: 1504583

Column : Inertsil ODS, (250mm x4.6mm 5.0μ)
Flow : 1.500 mL/min.
Mobile Phase : Phosphate buffer: Acetonitrile (550:450)



1 PDA Multi 1 / 210nm 4nm

PeakTable

PDA Ch1 210nm 4nm

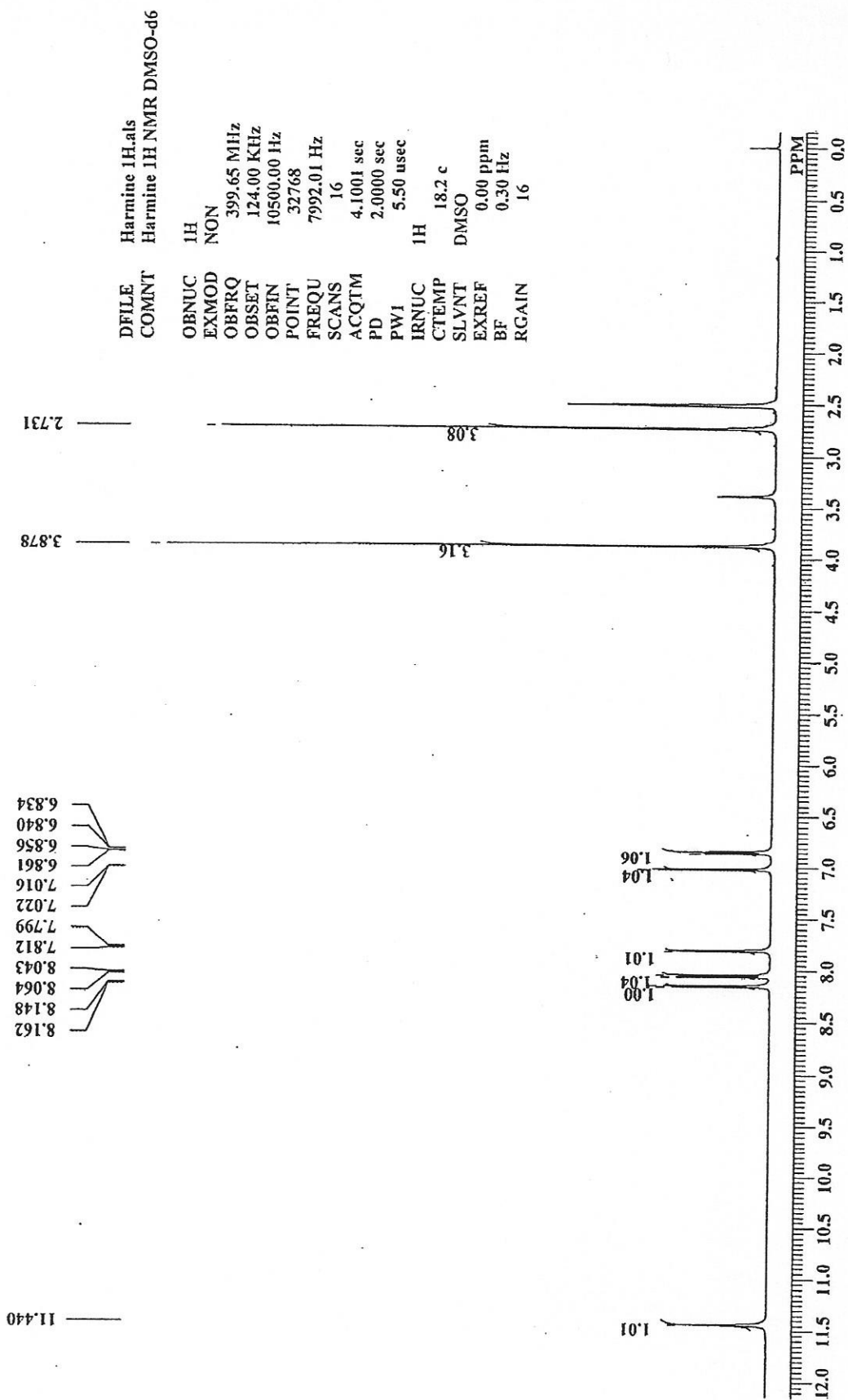
Peak#	Name	Ret. Time	Area	Area %	Relative Retention Time
1	RT:3.790	3.790	6175	0.01	0.59
2	RT:4.397	4.397	28130	0.07	0.68
3	Harmine	6.477	42956143	99.92	1.00
Total			42990448	100.00	



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Catalog No.: H-005
Product Name: Harmine
Lot No.: 1504583

Harmine 1H NMR DMSO-d6
Analysed By : MSR

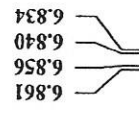
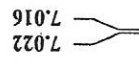
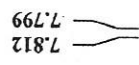
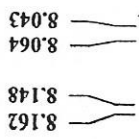




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Catalog No.: H-005
Product Name: Harmine
Lot No.: 1504583

Harmine 1H NMR DMSO-d6
Analysed By : MSR



DFILE Harmine 1H.als
COMNT Harmine 1H NMR DMSO-d6
DATIM Tue Apr 07 15:58:26 2015
OBNUC 1H
EXMOD NON
OBFRQ 399.65 MHz
OBSET 124.00 KHz
OBFIN 10500.00 Hz
POINT 32768
FREQU 7992.01 Hz
SCANS 16
ACQTM 4.1001 sec
PD 2.0000 sec
PW1 5.50 usec
IRNUC 1H
CTEMP 18.2 c
SLVNT DMSO
EXREF 0.00 ppm
BF 0.30 Hz
RGAIN 16

