



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.: 1906264

Molecular Formula: C₁₃H₁₂N₂O

Molecular Weight: 212.25

Appearance: Off-white powder

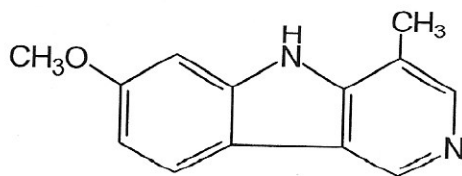
Melting Point: 265-267°C

Moisture (KF): 0.33%

TLC: Chloroform:Methanol (9:1)

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

Purity (HPLC): 99.33%



Prepared by:

Ramesh Mandadi

Ramesh Mandadi

Director of Operations

Reviewed and approved by:

Sujata Moton

S. Moton

VP



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121 Stryker Lane, Bldg. 30

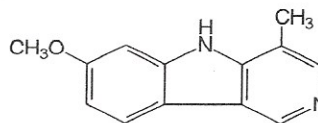
Hillsborough, NJ 08844 USA

Phone: (908) 359-6778; Fax: (908) 359-1179

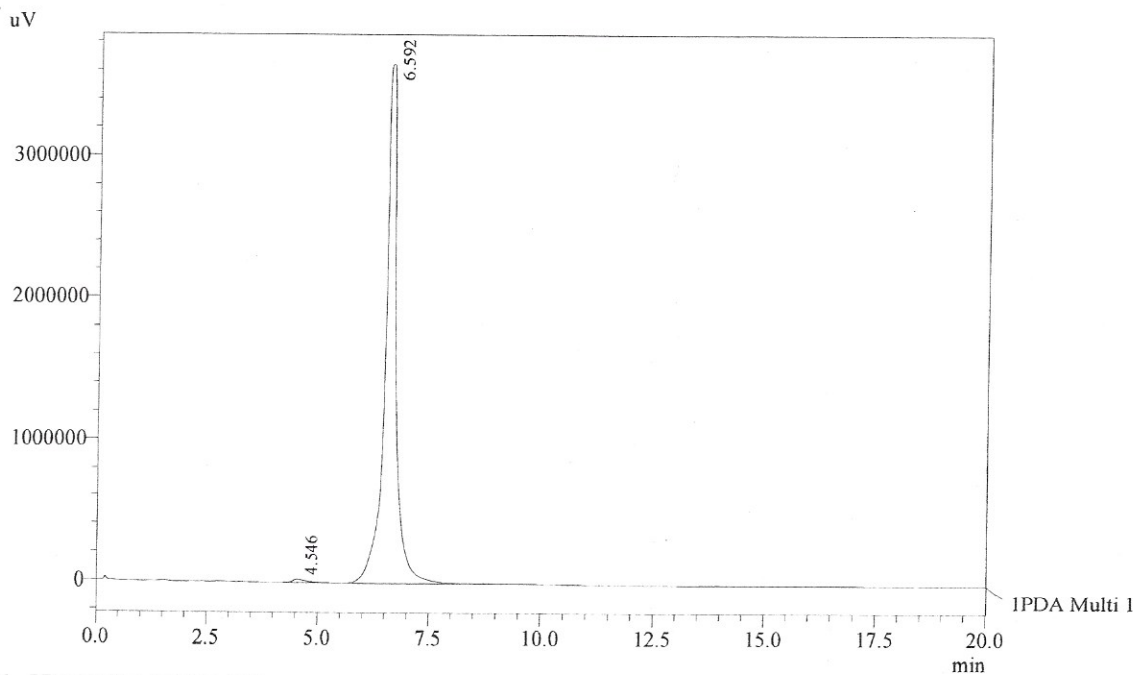
HPLC ANALYSIS

Acquired by : Admin
Sample Name : HARMINE
Sample ID : # 10.0 Kg
Injection Volume : 20 uL
Data Filename : 270519B.lcd
Method Filename : Isocratic Method-New.lcm
Report Filename : Default.lcr

Catalog No.: H-005
Product Name: Harmine
Lot No.: 1906264



Chromatogram



1 PDA Multi 1 / 210nm 4nm

PeakTable

PDA Ch1 210nm 4nm

Peak#	Name	Ret. Time	Height	Area %	Relative Retention Time
1	RT:4.546	4.546	21562	0.67	0.69
2	RT:6.592	6.592	3650945	99.33	1.00
Total			3681507	100.00	

Prepared by:

Ramesh Mandadi

Ramesh Mandadi
Director of Operations

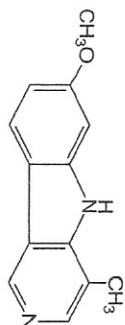
Reviewed and Approved by:

Sujata Moton

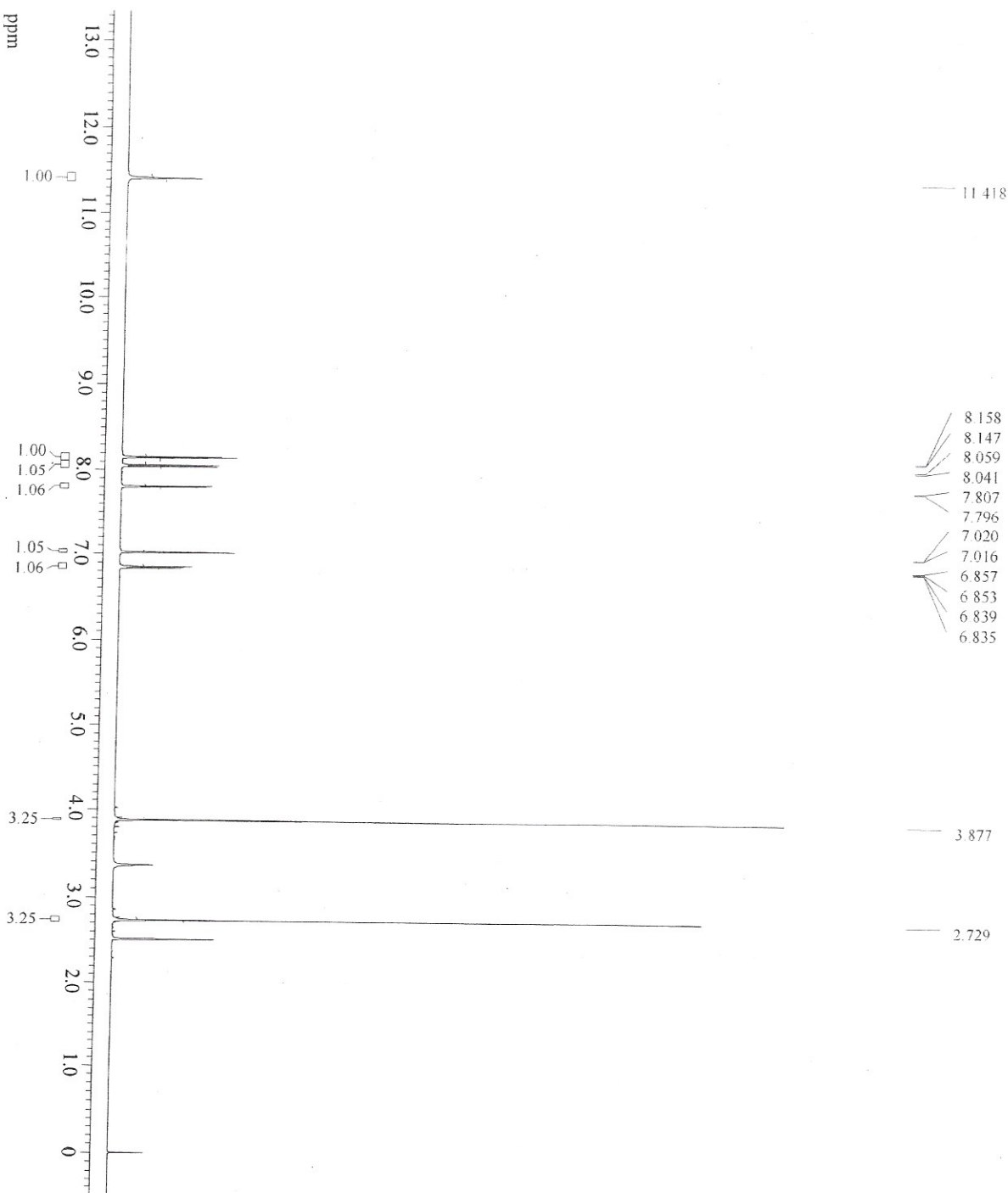
Sujata Moton
VP



INDOFINE Chemical Company, Inc.
121 STRYKER LANE
BLDG. 30, SUITE 1
HILLSBOROUGH, NJ 08844



Catalog No.: H-005
Product Name: Harmine
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8.158
8.147
8.059
8.041
7.807
7.796
7.020
7.016
6.857
6.853
6.839
6.835

3.877
2.729

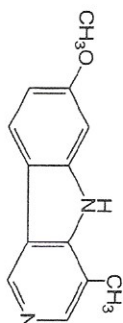
----- PROCESSING PARAMETERS -----
sexp(0.2[Hz], 0.0[s])
trapercoid(0[%], 0[%], 80[%], 100[%])
zerofill(1)
fft(1, TRUE, TRUE)
machinphase
ppm
auto_reference(5[%], TRUE)

Filename = HRN
Instrument = NMR-500MHz (JEOL)
Instrument id = NMR-02
Author = svr1402
Reviewed by = Ranjith
Solvent = DMSO-D6
Spectrometer = JNM-ECZ500R/SI
Experiment = proton.jxp

Acquisition Parameter
X_Domain = 1H
X_Offset = 7.0[ppm]
X_Sweep = 11.2815845[kHz]
Scans = 16
Relaxation_Delay = 2[s]



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8.056
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7.807
7.796

7.020
7.016

6.857
6.853
6.839
6.835

----- PROCESSING PARAMETERS -----
sweep(0.2[Hz], 0.0[s])
trapezoid(0[%], 0[%], 80[%], 100[%])
zerofill(1)
fft(1, TRUE, TRUE)
machinephase
ppm
auto_reference(5[%], TRUE)

Filename = HRAN
Instrument = NMR-500MHz (JEOL)
Instrument_id = NMR-02
Author = svr1402
Reviewed by = Ranjith
Solvent = DMSO-d6
Spectrometer = JNM-ECZ500R/SI
Experiment = proton_jxp

Acquisition Parameter
X_Domain = 1H
X_Offset = 7.01ppm
X_Sweep = 11.26158645[kHz]
Scans = 16
Relaxation_Delay = 2[s]

