



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.: 1811161

Molecular Formula: C₁₃H₁₂N₂O

Molecular Weight: 212.25

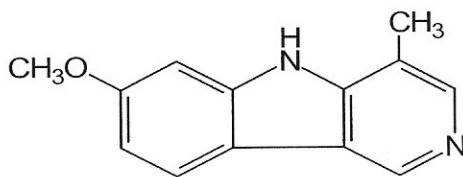
Appearance: Off-white crystalline powder

Melting Point: 266-268°C

Moisture (KF): 0.36%

TLC: Chloroform:Methanol (9:1)

Purity (HPLC): 99.36%



Prepared by:
Ramesh Mandadi
Ramesh Mandadi
Director of Operations

Reviewed and approved by:
Sujata Moton
S. Moton
VP



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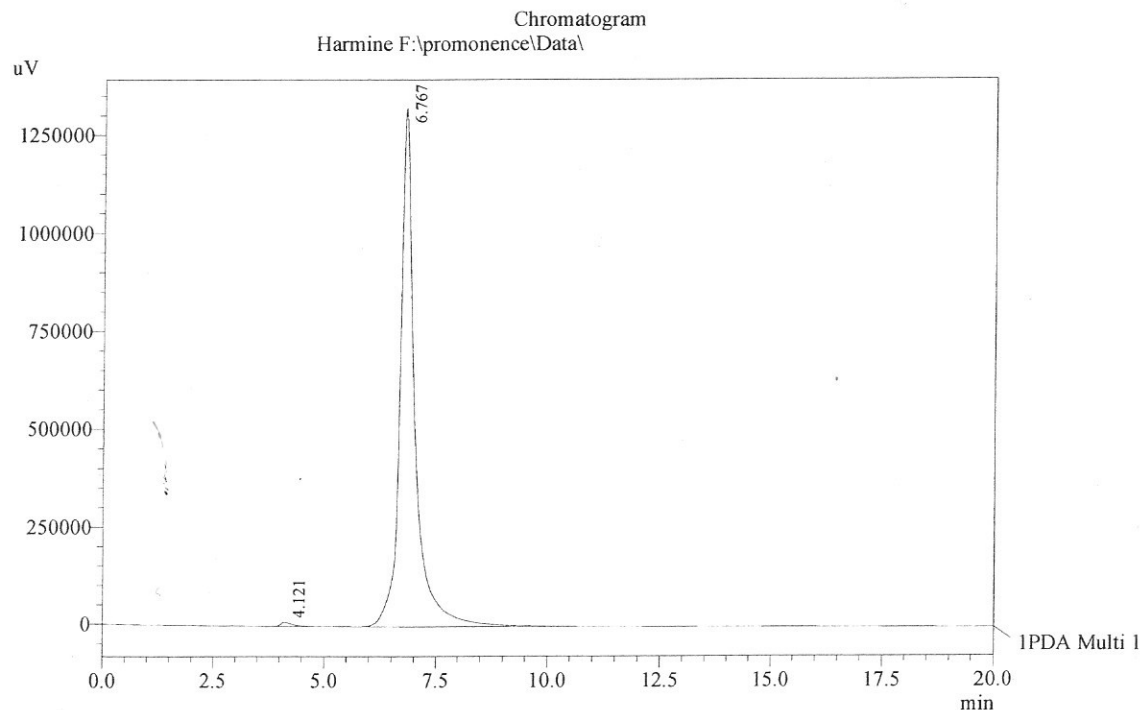
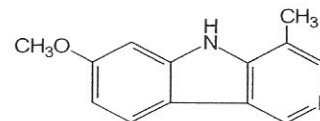
Hillsborough, NJ 08844 USA

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HPLC ANALYSIS

Acquired by : Admin
Sample Name : Harmine
Sample ID : # 12.0 Kg-Lot-
Injection Volume : 20 uL
Data Filename : 021118A.lcd
Method Filename : Isocratic Method-New.lcm
Report Filename : Default.lcr

Catalog No.: H-005
Product Name: Harmine
Lot No.: 1811161



1 PDA Multi 1 / 210nm 4nm

PeakTable

PDA Ch1 210nm 4nm

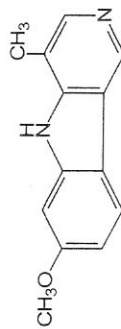
Peak#	Name	Ret. Time	Height	Area %	Relative Retention Time
1	RT:4.121	4.121	10560	0.64	0.61
2	Harmine	6.767	1325149	99.36	1.00
Total			1335709	100.00	

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_proton-1-2.jdf

8.137
8.128
8.042
8.026
7.790
7.779
7.000
6.996
6.839
6.835
6.822
6.818

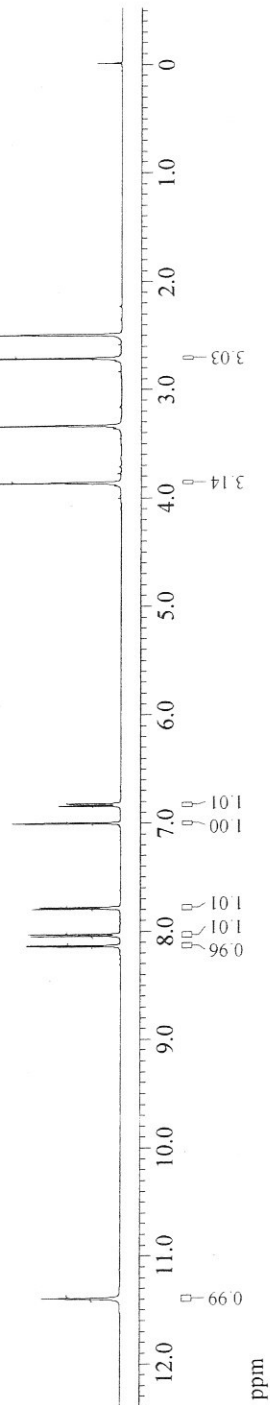
3.859
2.708

----- PROCESSING PARAMETERS -----

sexp(0.2[Hz], 0.0[s])
trapezoid(0[%], 0[%], 80[%], 100[%])
zerofill(1)
fft(1, TRUE, TRUE)
machinephase
ppm

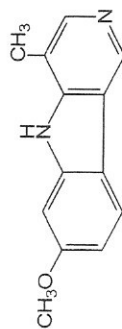
Filename = HRMN-12.0Kq -NOV-2018_prot
Instrument = NMR-500MHz (JEOL)
Instrument id = NMR-02
Author = man1385
Reviewed by = Ranjith
Solvent = DMSO-D6
Spectrometer = JNM-ECZ500R/S1
Experiment = proton.1xp

Acquisition Parameter
X_Domain = 1H
X_Offset = 7.0[ppm]
X_Sweep = 11.28158845[kHz]
Scans = 64
Relaxation_Delay = 2[s]





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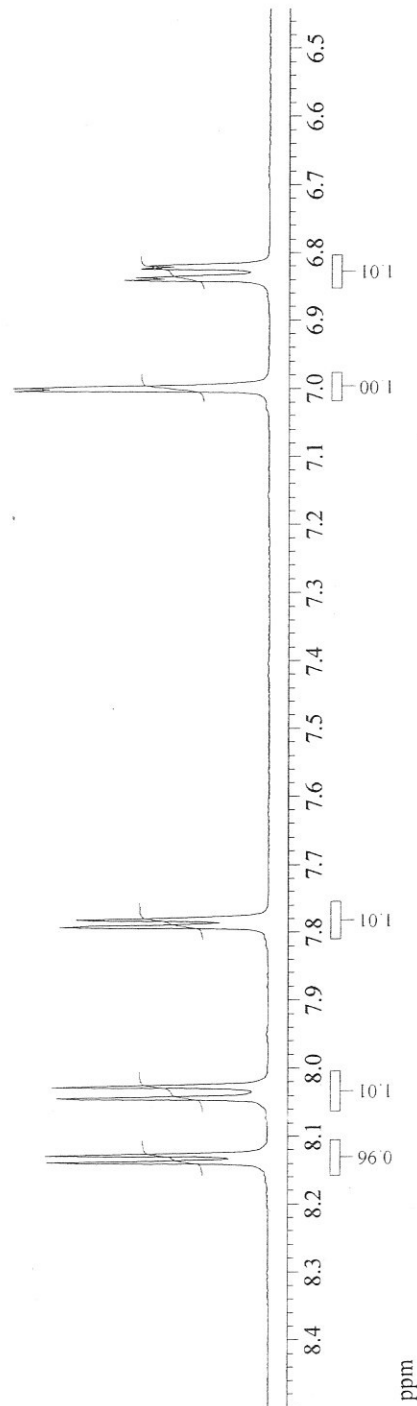
_proton-1-2.jdf



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ppm