



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

Cat No.: H-002

Product: **HARMALINE HYDROCHLORIDE DIHYDRATE**

CAS Number: [6027-98-1]

Lot Number: 1108154

Chemical Formula: $C_{13}H_{14}N_2O \cdot HCl \cdot 2H_2O$

Molecular Weight: 286.76

Melting Point: 245-248°C

Appearance: Yellow powder

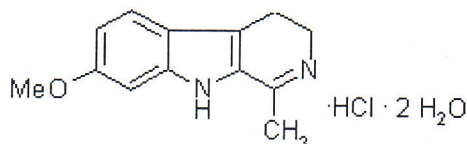
Solubility: Soluble in DMSO

TLC: Chloroform:Methanol (8:2)

Storage: Cool dry place

Moisture(KF): 0.20%

Assay(HPLC): 99.99%



H-002



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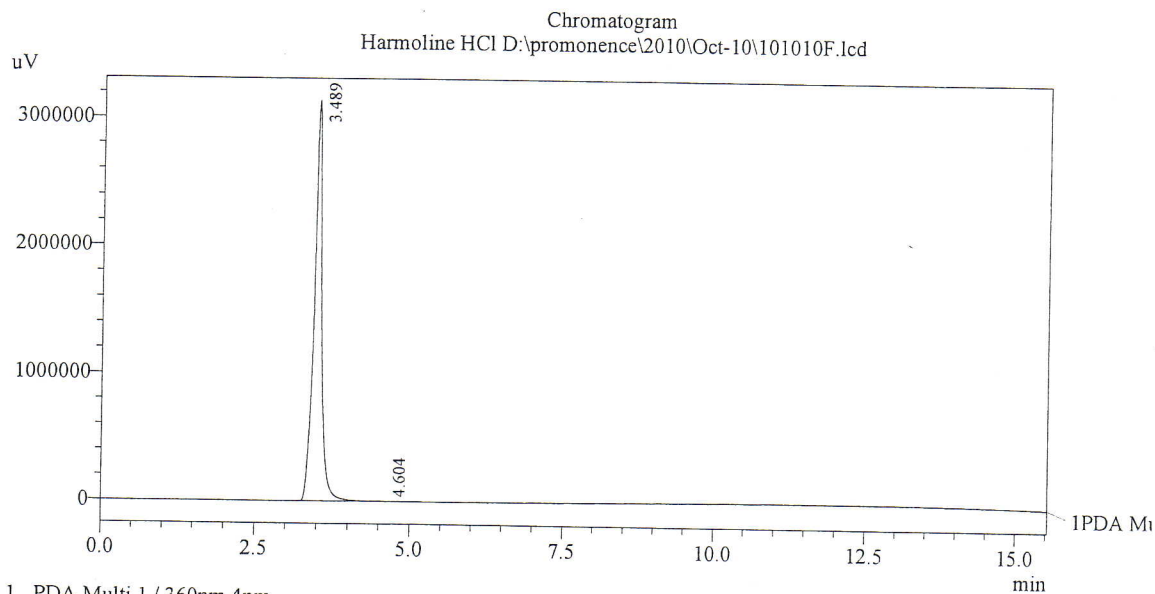
e-mail: chemical@indofinechemical.com

HPLC ANALYSIS

Date Acquired : 10/10/2010 3:24:36 PM
Acquired by : Rama krishna
Sample Name : Harmaline HCl
Sample ID :
Injection Volume : 20 uL
Data Filename : 101010F.lcd
Method Filename : Linear Isocratic.M.lcm

Cat. No.: H-002
Product name: Harmaline hydrochloride dihydrate
Lot No.: 1108154

Description:
Column : Inertsil C-18, 250X4.6mm 5.0µm
Flow : 1.00ML/min.
Mobile Phase : A(20% of 0.05% of TFA) : B(80% ACN)



1 PDA Multi 1 / 360nm 4nm

PeakTable

PDA Ch1 360nm 4nm

Peak#	Ret. Time	Area	Height	Area %
1	3.489	27458910	3132866	99.994
2	4.604	1578	183	0.006
Total		27460488	3133050	100.000