



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: A-001

Product Name: **L-ABRINE**
(N-Methyltryptophan)

CAS Number: [526-31-8]

Lot Number: 1507630

Chemical Formula: $C_{12}H_{14}N_2O_2$

Molecular Weight: 218.25

Melting Point: 293-295°C

Appearance: Off white powder

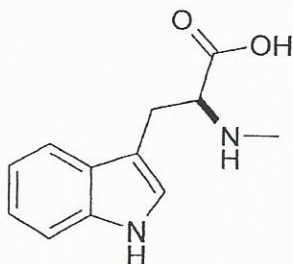
Optical Rotation $[\alpha]_D^{20}$: +64.48°

Moisture(KF): 0.31%

NMR Spectrum: Enclosed (conforms to the structure)

Storage: Store in a cool, dry place. Protect from light.

Purity(HPLC): 99.90%





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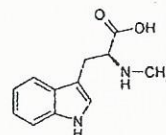
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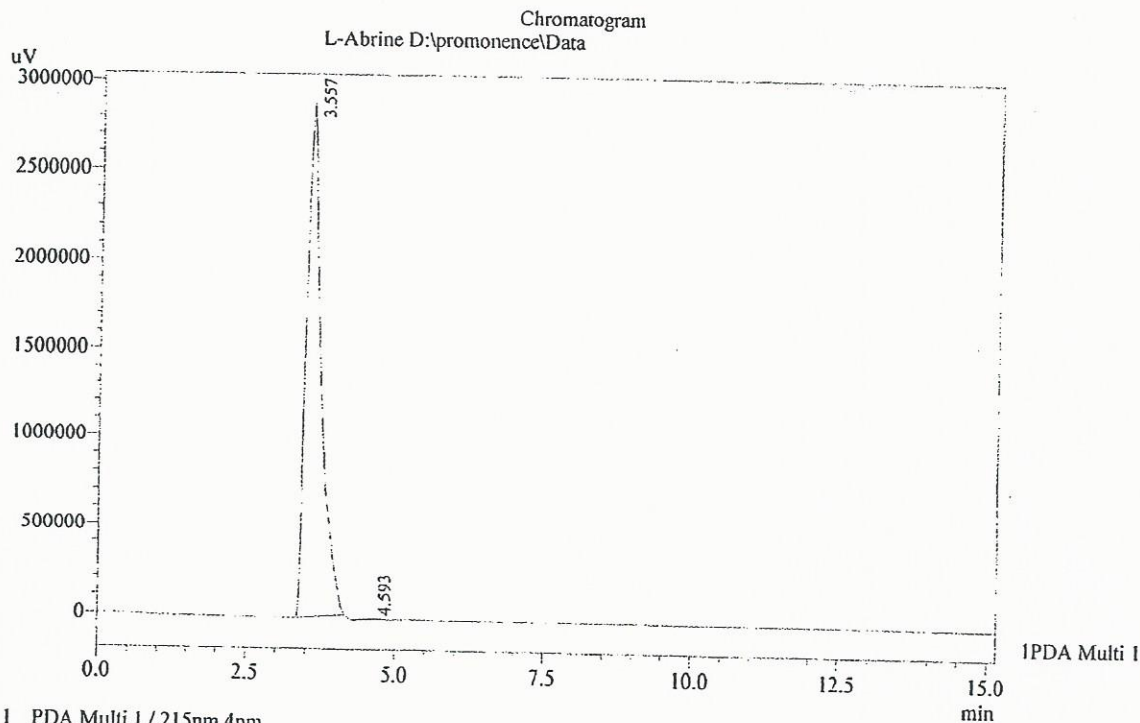
HPLC ANALYSIS

Acquired by : Admin
Sample Name : L-Abrine
Sample ID : 42 gm
Injection Volume : 20 uL
Data Filename : 170715B.lcd
Method Filename : Linear Isocratic.M.lcm

Catalog No.: A-001
Product Name: L-Abrine
Lot No.: 1507630



Column : Gemini C-18(2), (250mm x4.6mm 5.0μ)
Flow : 0.600 mL/min.
Mobile Phase : A(25% of 0.05% TFA in water) B(75% of Acetonitrile)



1 PDA Multi 1 / 215nm 4nm

PeakTable

PDA Ch1 215nm 4nm

Peak#	Name	Ret. Time	Area	Area %	Relative Retention Time
1	L-Abrine	3.557	49747137	99.90	0.00
2	RT:4.593	4.593	47571	0.10	0.00
Total			49794709	100.00	



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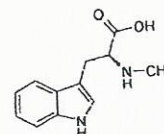
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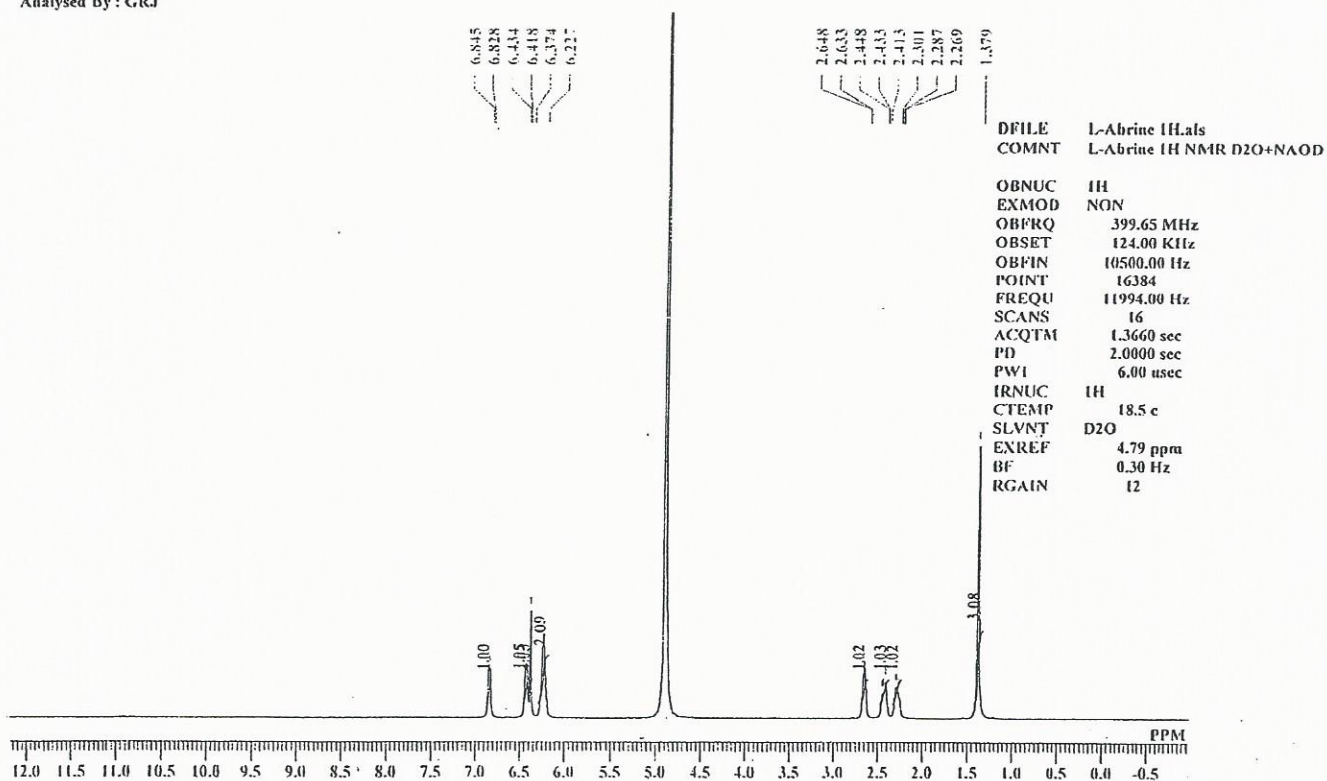
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Catalog No.: A-001
Product Name: L-Abrine
Lot No.: 1507630



L-Abrine 1H NMR D2O+NAOD

Analysed By: GRJ





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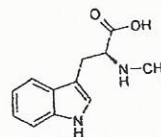
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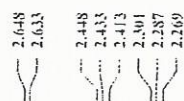
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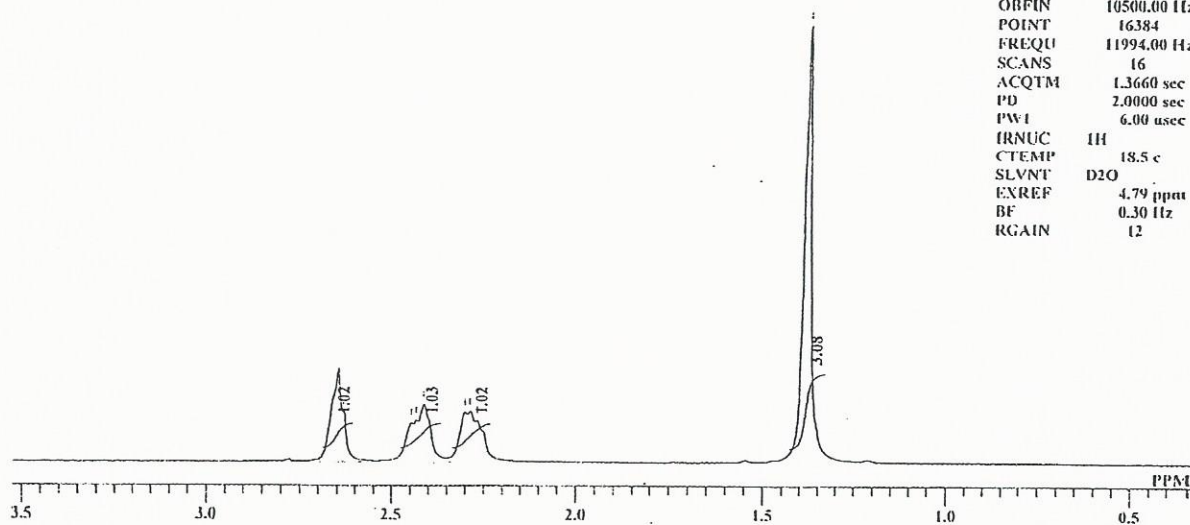
L-Abrine 1H NMR D2O+NAOD

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DFILE L-Abrine 1H.xls
COMNT L-Abrine 1H NMR D2O+NAOD

OBNUC 1H
EXMOD NON
OBFRQ 399.65 MHz
OBSCT 124.00 KHz
ORFIN 10500.00 Hz
POINT 16384
FREQU 11994.00 Hz
SCANS 16
ACQTM 1.3660 sec
PD 2.0000 sec
PWI 6.00 usec
IRNUC 1H
CTEMP 18.5 c
SLVNT D2O
EXREF 4.79 ppm
BF 0.30 Hz
RGAIN 12





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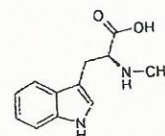
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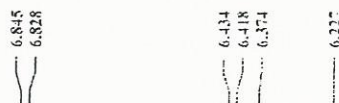
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L-Abrine ¹H NMR D₂O+NAOD

Analysed By: GRJ



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COMNT L-Abrine 1H NMR D₂O+NAOD

OBNUC 1H
EXMOD NON
OBFRQ 399.65 Mhz
OBSET 124.00 KHz
OBFIN 10500.00 Hz
POINT 16384
FREQU 11994.00 Hz
SCANS 16
ACQTM 1.3660 sec
PD 2.0000 sec
PWI 6.00 usec
IRNUC 1H
CTEMP 18.5 c
SLVNT D₂O
EXREF 4.79 ppm
BF 0.30 Hz
RGAIN 12

