



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: 1505604

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

Molecular Weight: 218.25

Melting Point: 294-295°C

Appearance: White powder

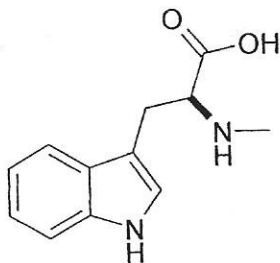
Optical Rotation $[\alpha]_D^{20}$: +63.75°

Moisture(KF): 0.42%

NMR Spectrum: Enclosed (conforms to the structure)

Storage: Store in a cool, dry place

Purity(HPLC): 99.31%





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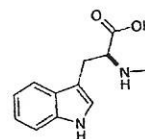
e-mail: chemical@indofinechemical.com

HPLC ANALYSIS

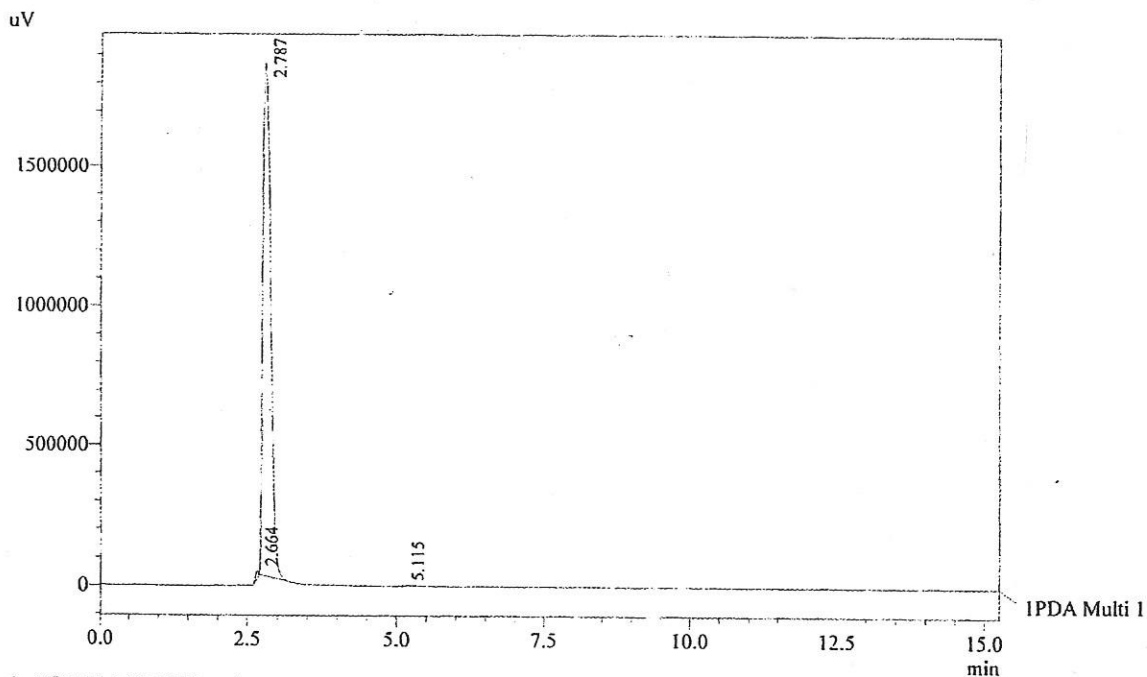
Acquired by : Admin
Sample Name : L-Abrine
Sample ID : Ist
Injection Volume : 20 uL
Data Filename : 300415A.lcd
Method Filename : Linear Isocratic.M.lcm

Catalog No.: A-001
Product Name: L-Abrine
Lot No.: 1505604

Column : LUNA C-18(2), (250mm x4.6mm 5.0μ)
Flow : 1.000 mL/min.
Mobile Phase : A(30% of 0.05% TFA in water) B(70% of Methanol)



Chromatogram



1 PDA Multi 1 / 215nm 4nm

PeakTable

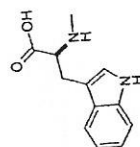
PDA Ch1 215nm 4nm

Peak#	Name	Ret. Time	Area	Area %	Relative Retention Time
1	RT:2.664	2.664	86428	0.52	0.00
2	L-Abrine	2.787	16603037	99.31	0.00
3	RT:5.115	5.115	29480	0.18	0.00
Total			16718946	100.00	

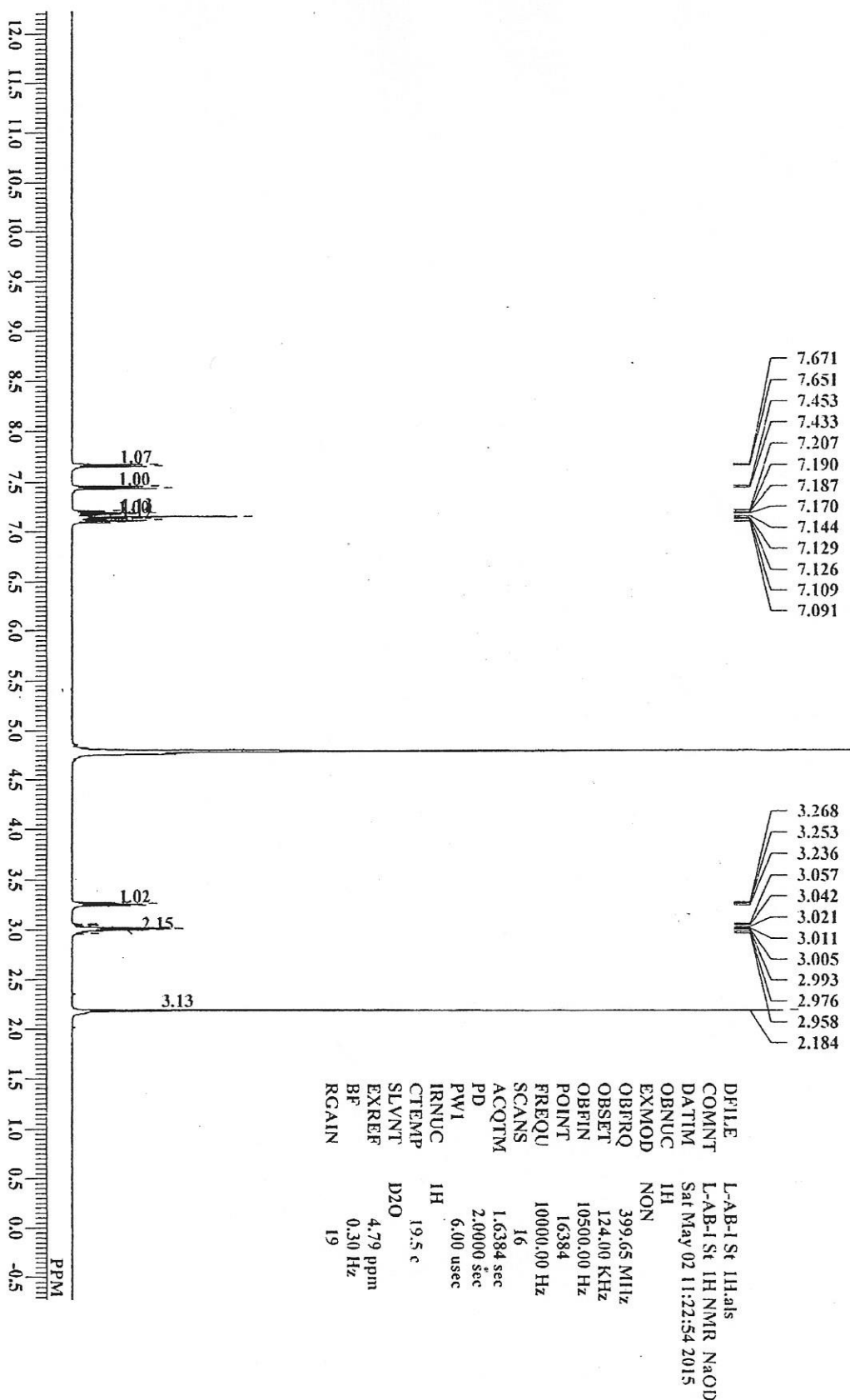


INDOFINE Chemical Company, Inc.
121 STRYKER LANE
BLDG. 30, SUITE 1
HILLSBOROUGH, NJ 08844

Catalog No.: A-001
Product Name: L-Abrine
Lot No.: 1505604

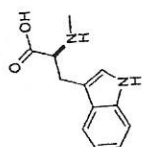


L-AB-1st 1H NMR NaOD
Analysed By : GRJ



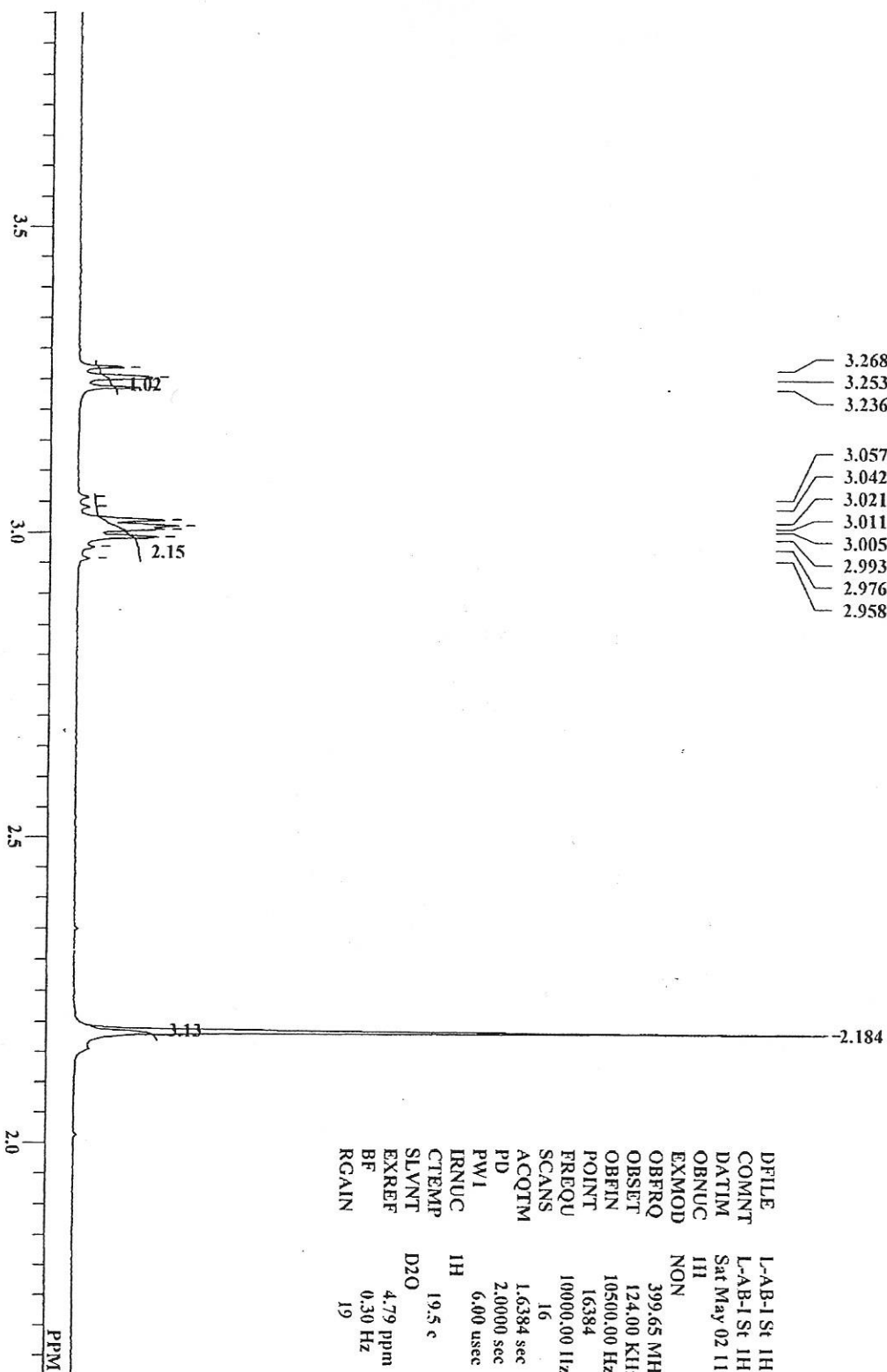
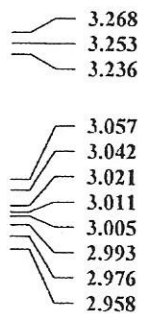


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Catalog No.: A-001
Product Name: L-Abrine
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L-AB-1 St 1H NMR NaOD
Analysed By: GRJ

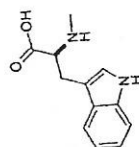


DFILE	L-AB-1 St 1H.a1s
COMNT	L-AB-1 St 1H NMR NaOD
DATIM	Sat May 02 11:22:54 2015
OBNUC	1H
EXMOD	NON
OBFRQ	399.65 MHz
OBSET	124.00 KHz
OBFIN	10500.00 Hz
POINT	16384
FREQU	10000.00 Hz
SCANS	16
ACQTM	1.6384 sec
PD	2.0000 sec
PW1	6.00 usec
IRNUC	1H
CTEMP	19.5 c
SLVNT	D2O
EXREF	4.79 ppm
BF	0.30 Hz
RGAIN	19

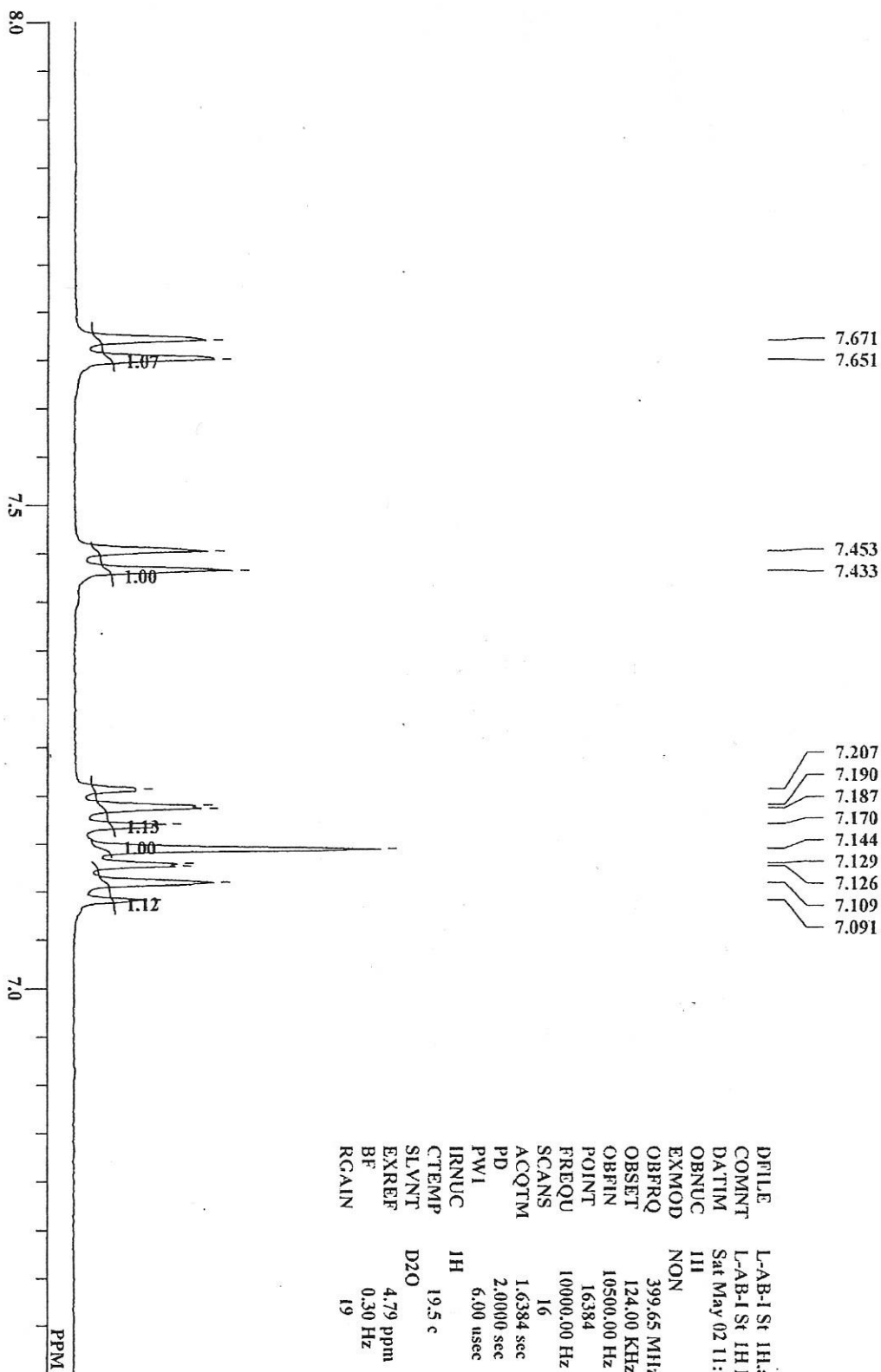


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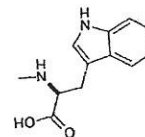
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Model P-1030 (A017560639)
Date 5/4/2015 5:13:35PM

Room Temp.
Weight

Sample L-AB-60gm Lot
Comment C=1.0 w/v in 0.5 N NaOH

Mode Specific O.R.
Light Na
Wavelength 589nm
Cell path 50.00 mm
Concentration 1.0000 w/v %
Factor 1.0000
Blank -0.0021 deg
Interval 5 sec
Integration 5 sec

Average 63.7520 ✓
S.D. 0.3348
C.V. 0.5252 %

No.	Sample No	Data	Temp.
1	1(1/ 5)	63.400	19.6
2	1(2/ 5)	64.280	19.8
3	1(3/ 5)	63.780	19.9
4	1(4/ 5)	63.540	20.1
5	1(5/ 5)	63.760	20.2