



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: P-001

Product Name: **PICROTOXIN**
(Cocculin)

Cas Number: [124-87-8]

Lot Number: 1604758

Chemical Formula: $C_{30}H_{34}O_{13}$

Molecular Weight: 602.59

Melting Point: 201-203°C

Appearance: White powder

TLC: Chloroform:Methanol (9:1) Two spots

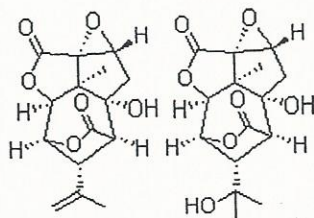
Solubility: Soluble in DMSO

Moisture (KF): 0.33%

NMR Spectrum: Enclosed (conforms to the structure)

Storage: Store in a cool, dry place

Purity(HPLC): 99.38%





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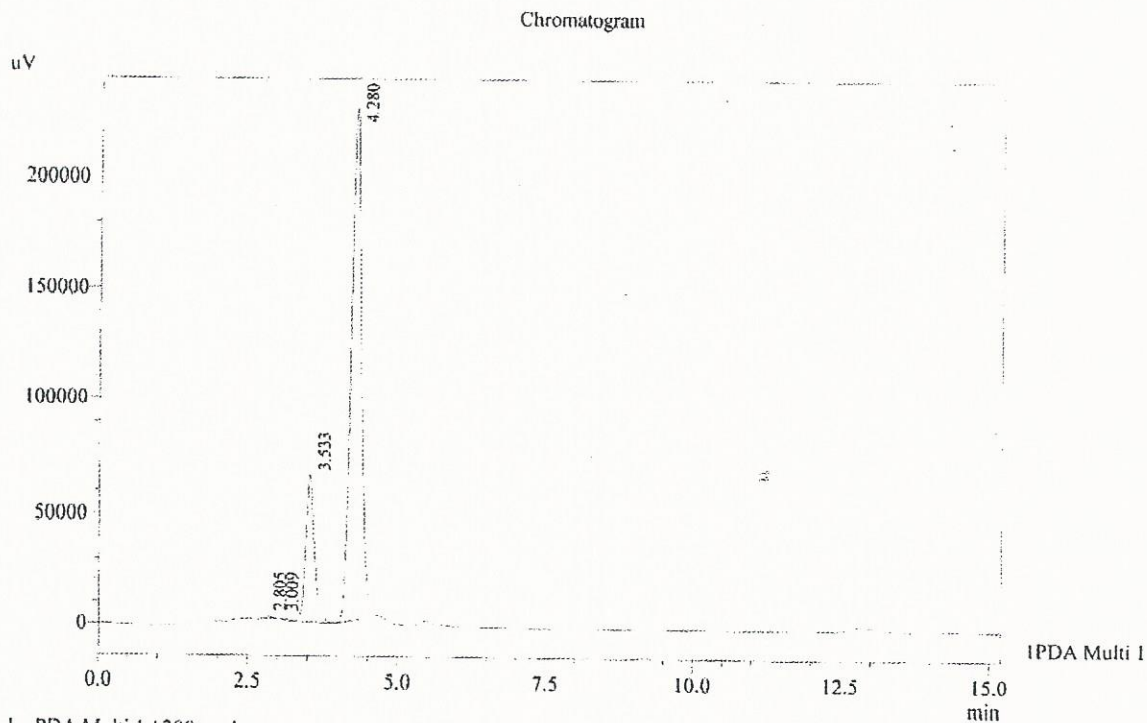
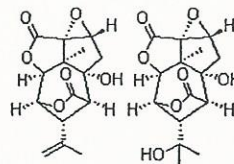
e-mail: chemical@indofinechemical.com

HPLC ANALYSIS

Acquired by : Admin
Sample Name : Picrotoxin
Sample ID : 2.4 kg
Injection Volume : 20 uL
Data Filename : 260316B.lcd
Method Filename : Isocratic Method.lcm

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Lot No.: 1604758

Column : LUNA C-18(2), (250mm x4.6mm 5.0μ)
Flow : 1.000 mL/min.
Mobile Phase : A(50% of water) B(50% of Acetonitrile)



1 IPDA Multi 1 / 200nm 4nm

PeakTable

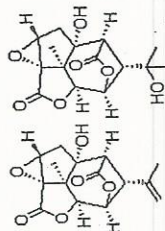
PDA Ch1 200nm 4nm

Peak#	Name	Ret. Time	Area	Area %	Relative Retention Time
1	RT:2.805	2.805	9471	0.28	0.66
2	RT:3.009	3.009	11535	0.34	0.70
3	RT:3.533	3.533	662324	19.45	0.83
4	RT:4.280	4.280	2721475	79.93	1.00
Total			3404805	100.00	



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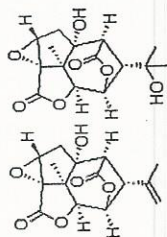
Catalog No.: P-001
Product Name: Picrotoxin
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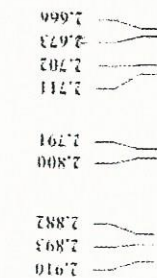
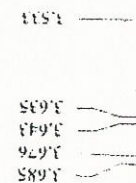
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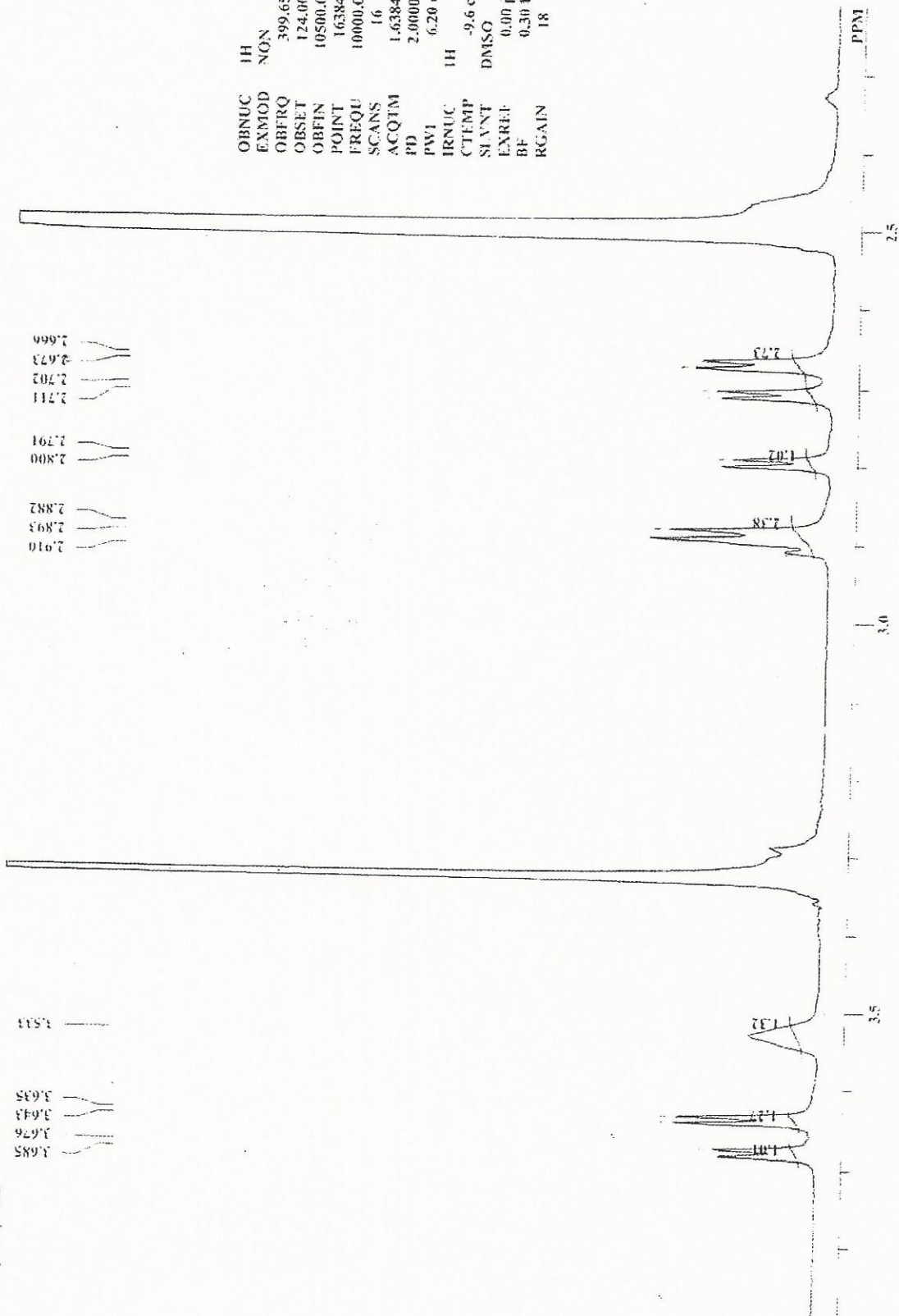


¹H NMR DMSO-d6

Analyzed By: BRJ



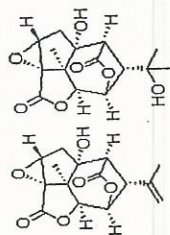
OBNUC	1H
EXMOD	NON
OBFRQ	399.65 MHz
OBSET	124.00 KHz
OBFIN	10500.00 Hz
POINT	16384
FREQU	10000.00 Hz
SCANS	16
ACQTM	1.6384 sec
PD	2.0000 sec
PW1	6.20 usec
IRNUC	1H
CTEMP	-9.6 c
SLVNT	DMSO
EXREF	0.00 ppm
BF	0.30 Hz
RGAIN	18





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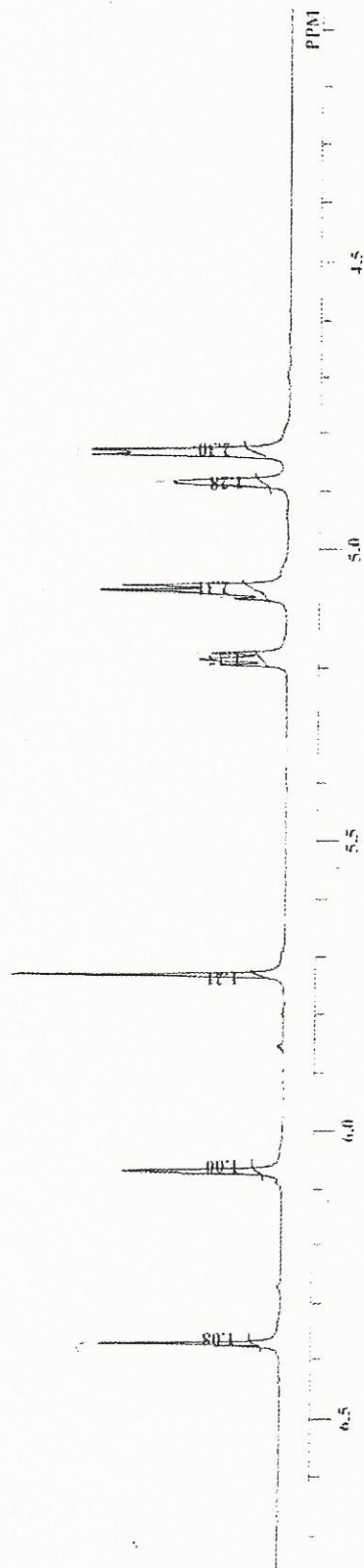


¹H NMR DMSO-d₆

Analysed By: BRJ



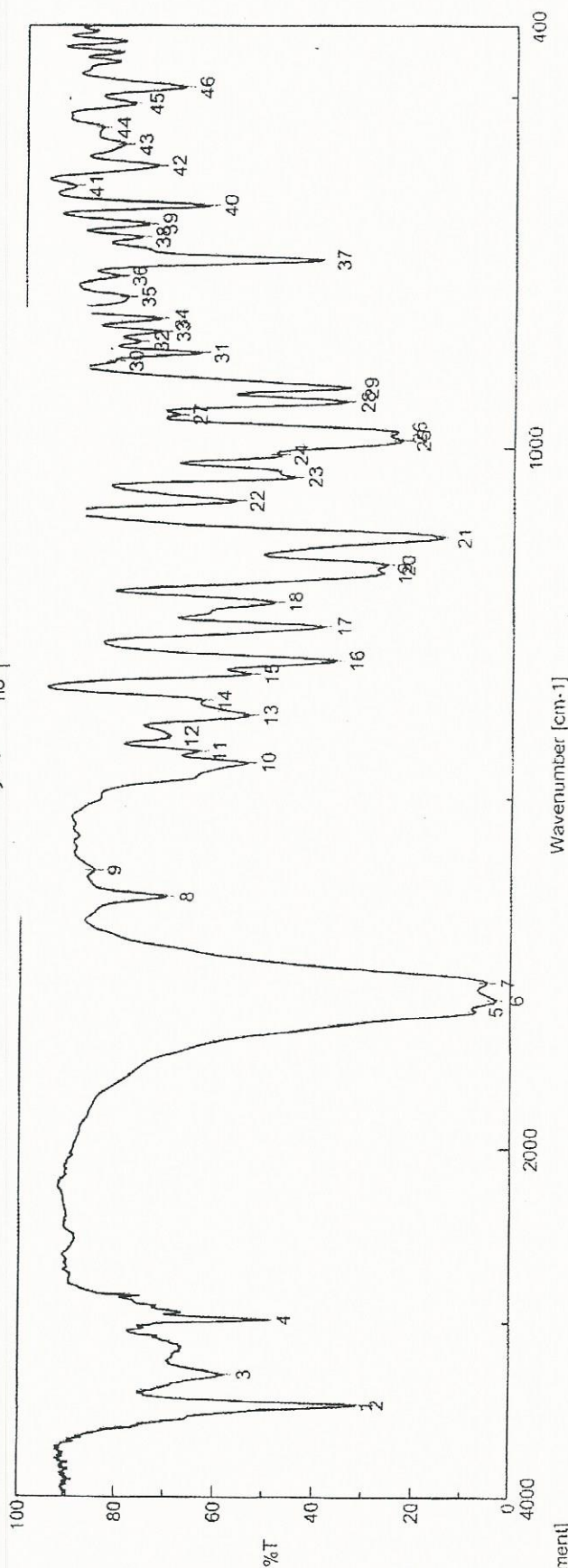
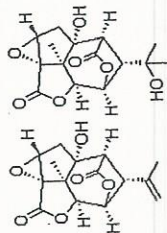
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[Comment]

Sample Name KBr Pellet
Comment VSR
User QC
Division

[Data Information]

Data array type Linear data array
Horizontal Wavenumber [cm-1]
Vertical %T
Start 399.193 cm-1
End 4000.6 cm-1
Data pitch 0.954233 cm-1
Data points 3736

No	Position	Intensity	k	Picking
1	3470.3	33.074		
6	1788.7	2.871		
11	1433.8	63.710		
15	1303.6	35.952		
21	1126.2	14.349		
26	977.7	23.745		
31	865.9	63.977		
36	754.0	80.698		
41	626.8	89.931		
45	487.9	67.310		

No	Position	Intensity	No	Position	Intensity
2	3462.6	31.009	3	3288.0	57.623
7	1763.6	4.724	8	1642.1	70.016
12	1412.6	69.405	13	1382.7	53.368
17	1253.5	38.504	18	1218.8	48.432
22	1075.1	56.419	23	1040.4	44.627
27	953.6	68.172	28	935.3	34.121
32	849.5	76.213	33	835.0	71.816
37	729.0	39.233	38	697.1	75.011
42	597.8	72.881	43	567.9	79.668
5	1805.0	7.073	9	1602.5	84.856
10	1450.2	53.816	14	1361.5	62.743
15	1322.9	53.278	19	1177.3	26.444
20	1165.8	25.685	24	1008.6	47.653
25	989.3	22.808	29	915.1	33.488
30	878.4	81.297	34	816.7	72.183
35	784.9	78.830	39	678.8	74.646
40	652.8	62.244	44	544.8	84.235
45	511.0	77.564			