



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.: P-001

<u>Product:</u>	PICROTOXIN (Cocculin)
<u>Cas Number:</u>	[124-87-8]
<u>Lot Number:</u>	1201186
<u>Chemical Formula:</u>	$C_{30}H_{34}O_{13}$
<u>Molecular Weight:</u>	602.59
<u>Melting Point:</u>	200-201°C
<u>Source:</u>	Natural from Anamirta cocculus seeds
<u>Appearance:</u>	Off white powder
<u>TLC:</u>	Chloroform:Methanol (9:1)
<u>Solubility:</u>	Soluble in DMSO
<u>Moisture (KF):</u>	0.56%
<u>Assay(HPLC):</u>	98.16%



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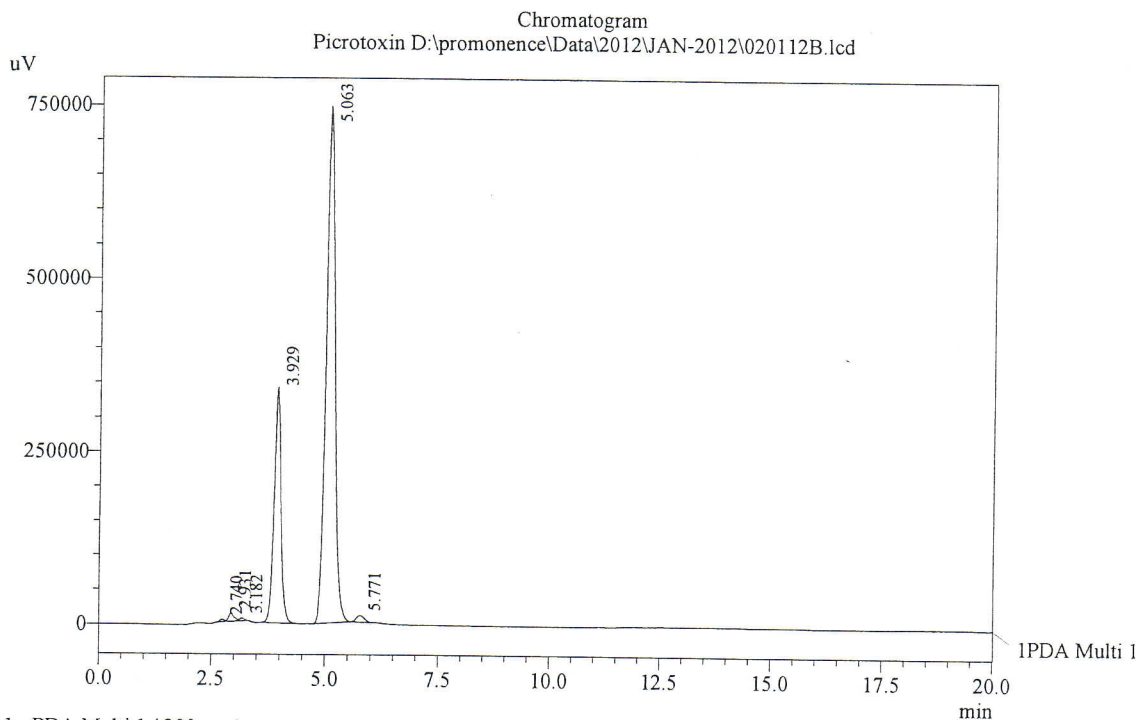
e-mail: chemical@indofinechemical.com

HPLC ANALYSIS

Acquired by : Sanjeev
Sample Name : Picrotoxin
Sample ID : 1.3 Kg lot
Injection Volume : 20 uL
Data Filename : 020112B.lcd
Method Filename : Linear Isocratic.M.lcm

Cat. No.: P-001
Product name: Picrotoxin
Lot No.: 1201186

Date Acquired : 1/2/2012 10:29:14 AM
Data Processed : 1/2/2012 6:37:07 PM
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 PDA Multi 1 / 200nm 4nm

PeakTable

PDA Ch1 200nm 4nm

Peak#	Name	Ret. Time	Area	Area %	Relative Retention Time
1	RT:2.740	2.740	22029	0.16	0.54
2	RT:2.931	2.931	97874	0.71	0.58
3	RT:3.182	3.182	25525	0.18	0.63
4	RT:3.929	3.929	3503259	25.24	0.78
5	RT:5.063	5.063	10120950	72.92	1.00
6	RT:5.771	5.771	110805	0.80	1.14
Total			13880442	100.00	

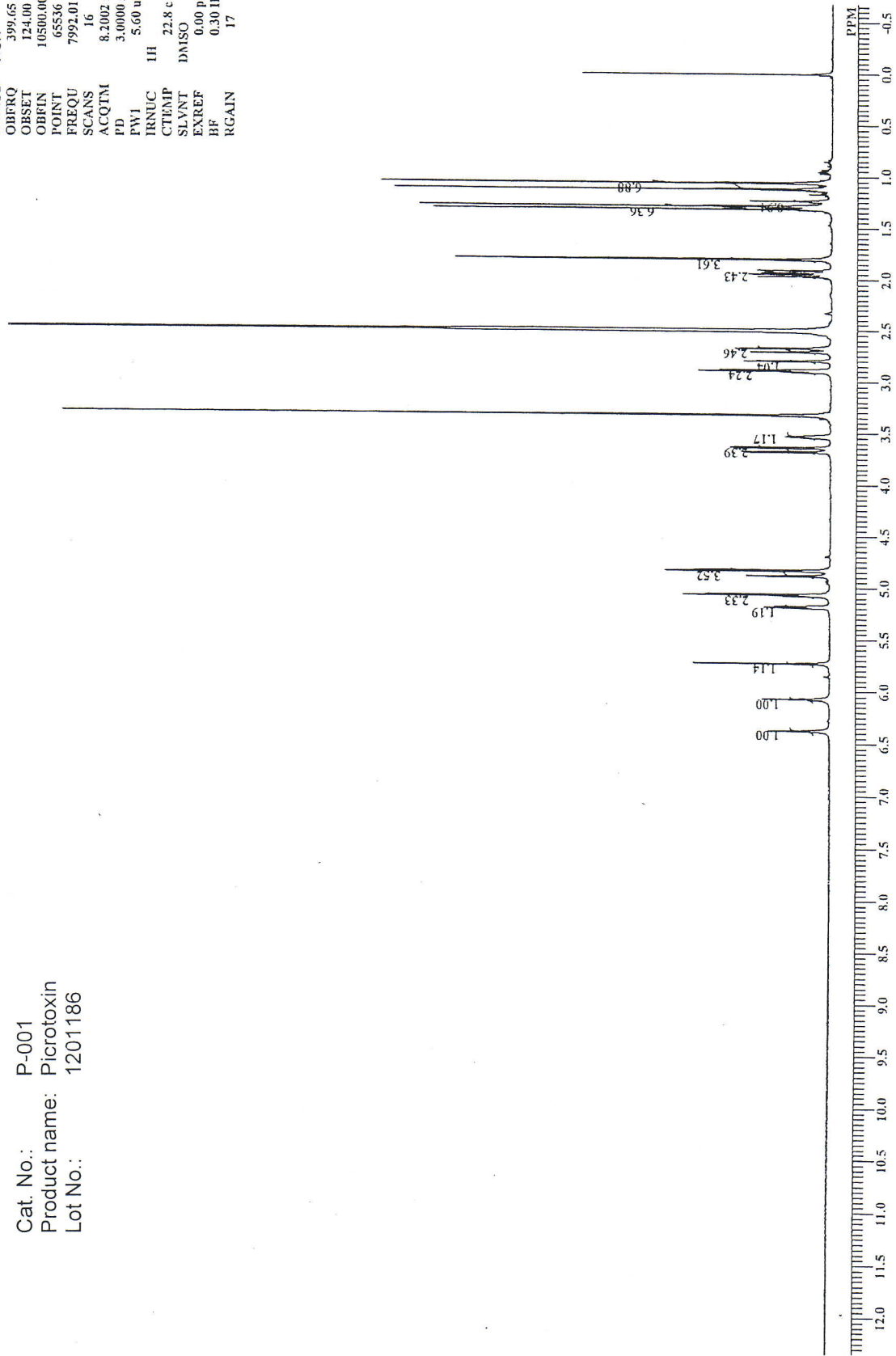


INDOFINE Chemical Company, Inc.
121 STRYKER LANE
BLDG. 30, SUITE 1
HILLSBOROUGH, NJ 08844

¹H NMR DMSO-D₆

Cat. No.: P-001
Product name: Picrotoxin
Lot No.: 1201186

DFILE PTX-1.3Kg lot III.als
COMNT PTX-1.3Kg lot III NMR DMSO-D₆
DATIM Sat Dec 31 17:14:40 2011
OBNUC 1H
EXMOD NON
OBFRQ 399.65 MHz
OBSET 124.00 KHz
OBRIN 10500.00 Hz
POINT 65536
FREQU 7992.01 Hz
SCANS 16
ACQTM 8.2002 sec
PD 3.0000 sec
PWI 5.60 usec
IRNUC 1H 22.8 c
CTEMP DMSO
SLVNT 0.00 ppm
EXREF 0.30 Hz
BF 17
RGAIN



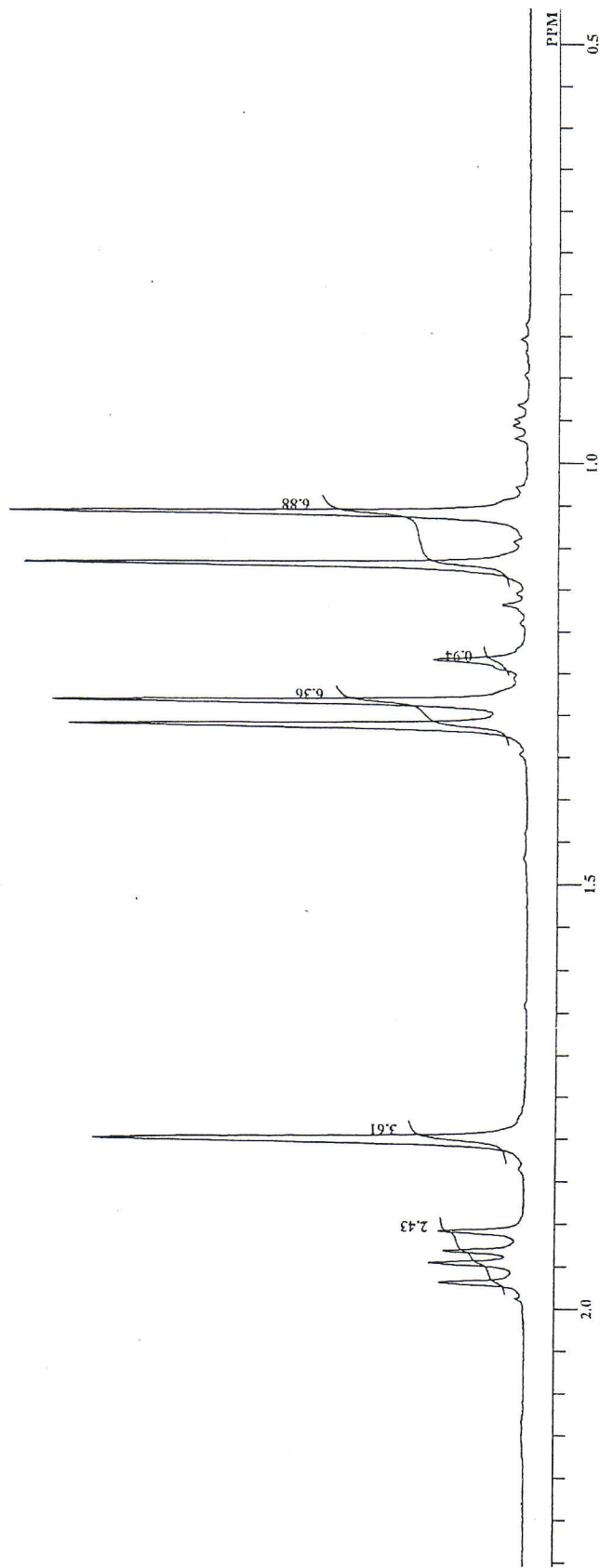


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¹H NMR DMSO-D6

Cat. No.: P-001
Product name: Picrotoxin
Lot No.: 1201186

DFILE PTX-1.3Kg lot 1H.als
COMNT PTX-1.3Kg lot 1H NMR DMSO-D6
DATIM Sat Dec 31 17:14:40 2011
OBNUC 1H
EXMOD NON
OBFRQ 399.65 MHz
OBSET 124.00 KHz
OBFIN 10500.00 Hz
POINT 65536
FREQU 7992.01 Hz
SCANS 16
ACQTM 8.2002 sec
PD 3.0000 sec
PW1 5.60 usec
IRNUC 1H
CTEMP 22.8 c
SLVNT DMSO
EXREF 0.00 ppm
BF 0.30 Hz
RGAIN 17



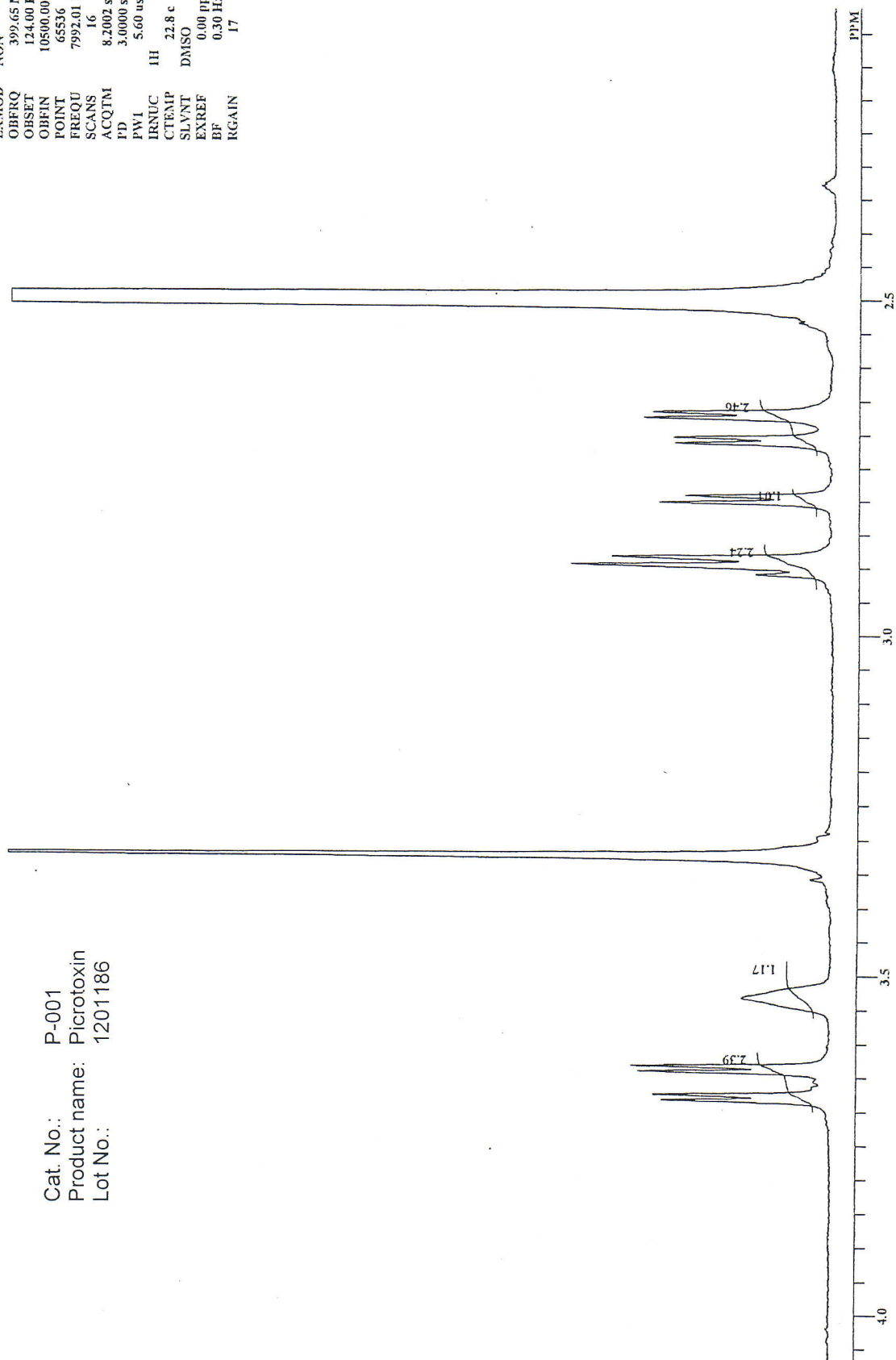


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