



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

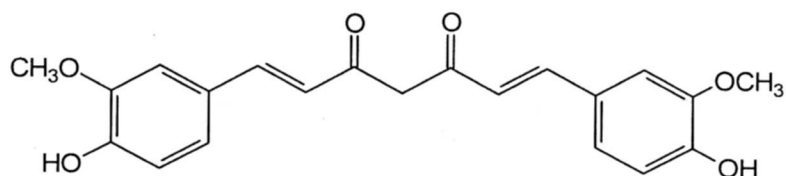
website: www.indofinechemical.com

e-mail: chemical@indofinechemical.com

CERTIFICATE OF ANALYSIS

Cat. No.: C-004

<u>Product:</u>	CURCUMINE
<u>CAS Number:</u>	[458-37-7]
<u>Lot No.:</u>	0609086
<u>Molecular Formula:</u>	C ₂₁ H ₂₀ O ₆
<u>Molecular Weight:</u>	368.39
<u>Melting Point:</u>	182-185°C
<u>Appearance:</u>	Orange yellow powder
<u>Solubility:</u>	Soluble in DMSO
<u>TLC:</u>	Chloroform:Methanol (9:1)
<u>Purity (HPLC):</u>	91.97%





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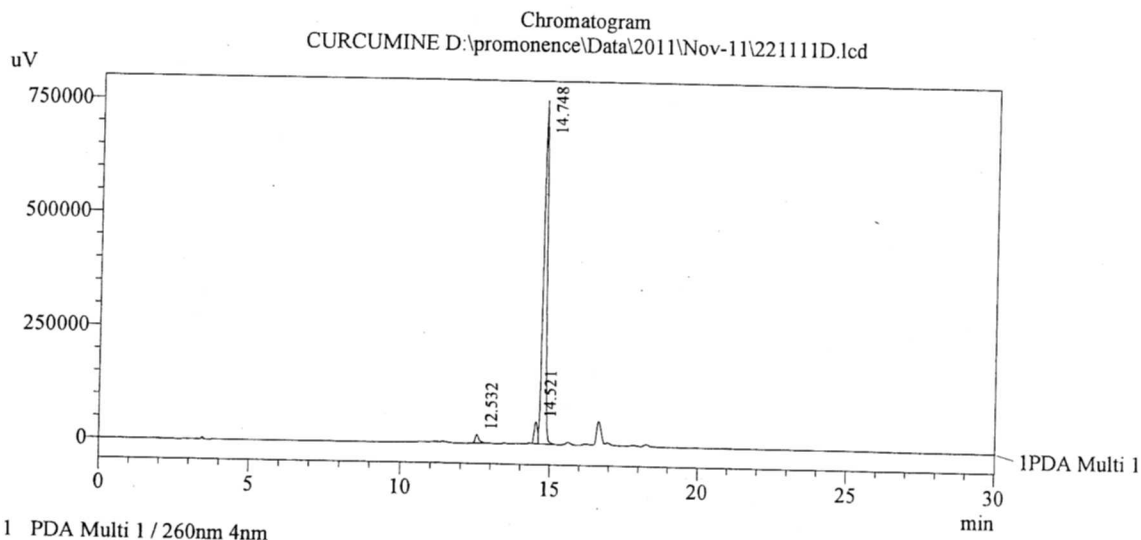
e-mail: chemical@indofinechemical.com

HPLC ANALYSIS

Acquired by : Admin
Sample Name : CURCUMINE
Sample ID : Lot No:- 0609086
Injection Volume : 20 uL
Data Filename : 221111D.lcd
Method Filename : Linear Gradient.M.lcm

Cat. No.: C-004
Product name: Curcumine
Lot No.: 0609086

Date Acquired : 11/22/2011 12:11:48 PM
Data Processed : 11/25/2011 12:31:43 PM
Column : LUNA C-18(2), (250mm x4.6mm 5.0μ)
Flow : 1.000 mL/min.
Mobile Phase : A(0.05% TFA in water) B(Acetonitrile)
0.01 90 10
12.0 10 90
20.0 10 90
25.0 90 10
30.0 90 10



PDA Ch1 260nm 4nm

PeakTable

Peak#	Name	Ret. Time	Area	Area %	Relative Retention Time
1	RT:12.532	12.532	167064	2.52	0.85
2	RT:14.521	14.521	365749	5.51	0.98
3	RT:14.748	14.748	6103853	91.97	1.00
Total			6636666	100.00	

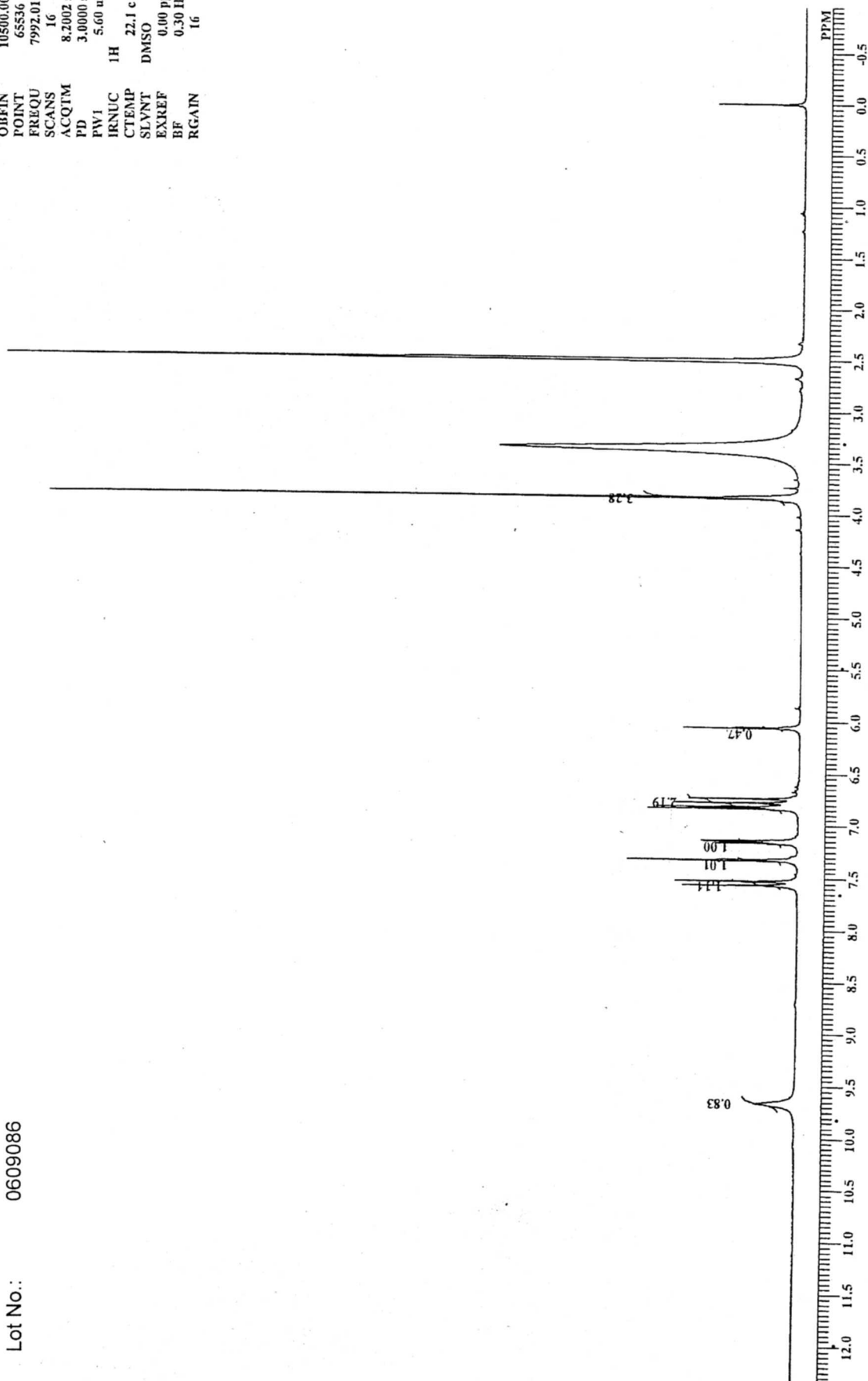


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121 STRYKER LANE
BLDG. 30, SUITE 1
HILLSBOROUGH, NJ 08844

IFC-10 1H NMR DMSO-D6

Cat. No.: C-004
Product name: Curcumine
Lot No.: 0609086

DFILE IFC-10.als
COMNT IFC-10 1H NMR DMSO-D6
DATIM Tue Nov 22 21:33:20 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 22.1 c
SLVNT DMSO
EXREF 0.00 ppm
BF 0.30 Hz
RGAIN 16





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HILLSBOROUGH, NJ 08844

IFC-10 1H NMR DMSO-D6

Cat. No.: C-004
Product name: Curcumine
Lot No.: 0609086

DFILE IFC-10.ak
COMNT IFC-10 1H NMR DMSO-D
DATIM Tue Nov 22 21:33:20 2011
OBNUC 1H
EXMOD NON
OBRQ 399.65 MHz
OBSE 124.00 KHz
OBFN 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 22.1 c
SLVNT DMSO
EXREF 0.00 ppm
BF 0.30 Hz
RGAIN 16

