



INDOFINE Chemical Company, Inc.

121 Stryker Lane, Bldg. 30, Suite 1 • Hillsborough, NJ 08844 • U.S.A.

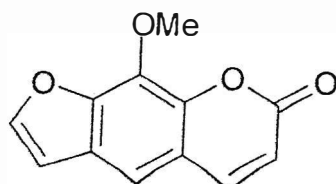
Phone: (908) 359-6778 • FAX: (908) 359-1179

website: www.indofinechemical.com

e-mail: chemical@indofinechemical.com

CERTIFICATE OF ANALYSIS

<u>Catalog Number:</u>	020530
<u>Product Name:</u>	XANTHOTOXIN (Methoxsalen; 8-methoxypsoralen)
<u>CAS Number:</u>	[298-81-7]
<u>Lot Number:</u>	99286
<u>Chemical Formula:</u>	$C_{12}H_8O_4$
<u>Molecular Weight:</u>	216.19
<u>Melting Point:</u>	146-148°C
<u>Appearance:</u>	Off white fluffy powder
<u>Solubility:</u>	Soluble in Chloroform
<u>TLC:</u>	Hexane : Ethyl acetate (7:3)
<u>NMR Spectrum:</u>	Enclosed (Confirms to the structure)
<u>Storage:</u>	Store in a cool, dry place
<u>Purity (HPLC):</u>	99.90%





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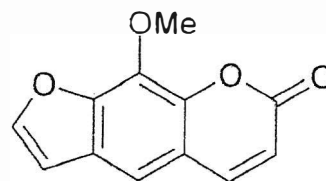
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HPLC ANALYSIS

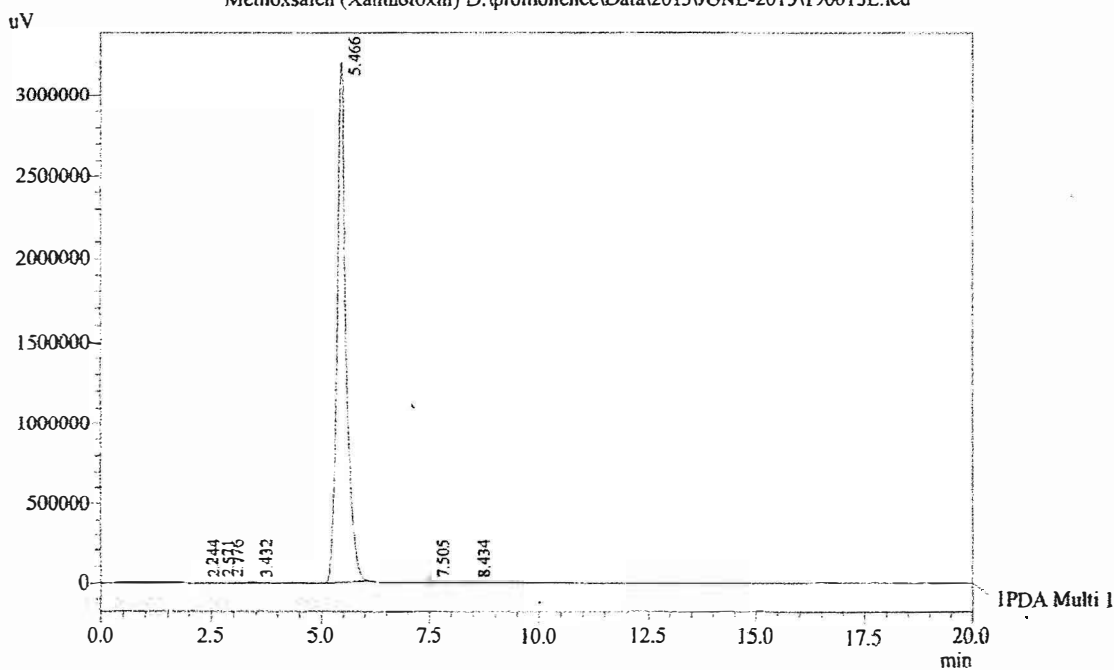
Catalog No.: 020530
Product Name: Xanthotoxin
Lot No.: 99286

Acquired by : Sanjeev
Sample Name : Methoxsalen (Xanthotoxin)
Sample ID : Lot No: 99286
Injection Volume : 20 µL
Data Filename : 190613E.lcd
Method Filename : Linear Isocratic.M.lcm

Column : LUNA C-18(2), (250mm x4.6mm 5.0µ)
Flow : 1.000 mL/min.
Mobile Phase : A(40% of water) B(60% of Acetonitrile)
Diluent : Acetonitrile



Chromatogram
Methoxsalen (Xanthotoxin) D:\promonence\Data\2013\JUNE-2013\190613E.lcd



1 PDA Multi 1 / 254nm 4nm

PeakTable

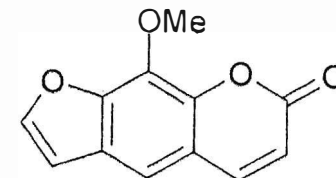
PDA Ch1 254nm 4nm

Peak#	Name	Ret. Time	Area	Area %	Relative Retention Time
1	RT:2.244	2.244	3405	0.01	0.41
2	RT:2.571	2.571	2824	0.01	0.47
3	RT:2.776	2.776	4277	0.01	0.51
4	RT:3.432	3.432	21292	0.05	0.63
5	Methoxsalen	5.466	46330312	99.90	1.00
6	RT:7.505	7.505	7149	0.02	1.37
7	RT:8.434	8.434	5214	0.01	1.54
Total			46374473	100.00	



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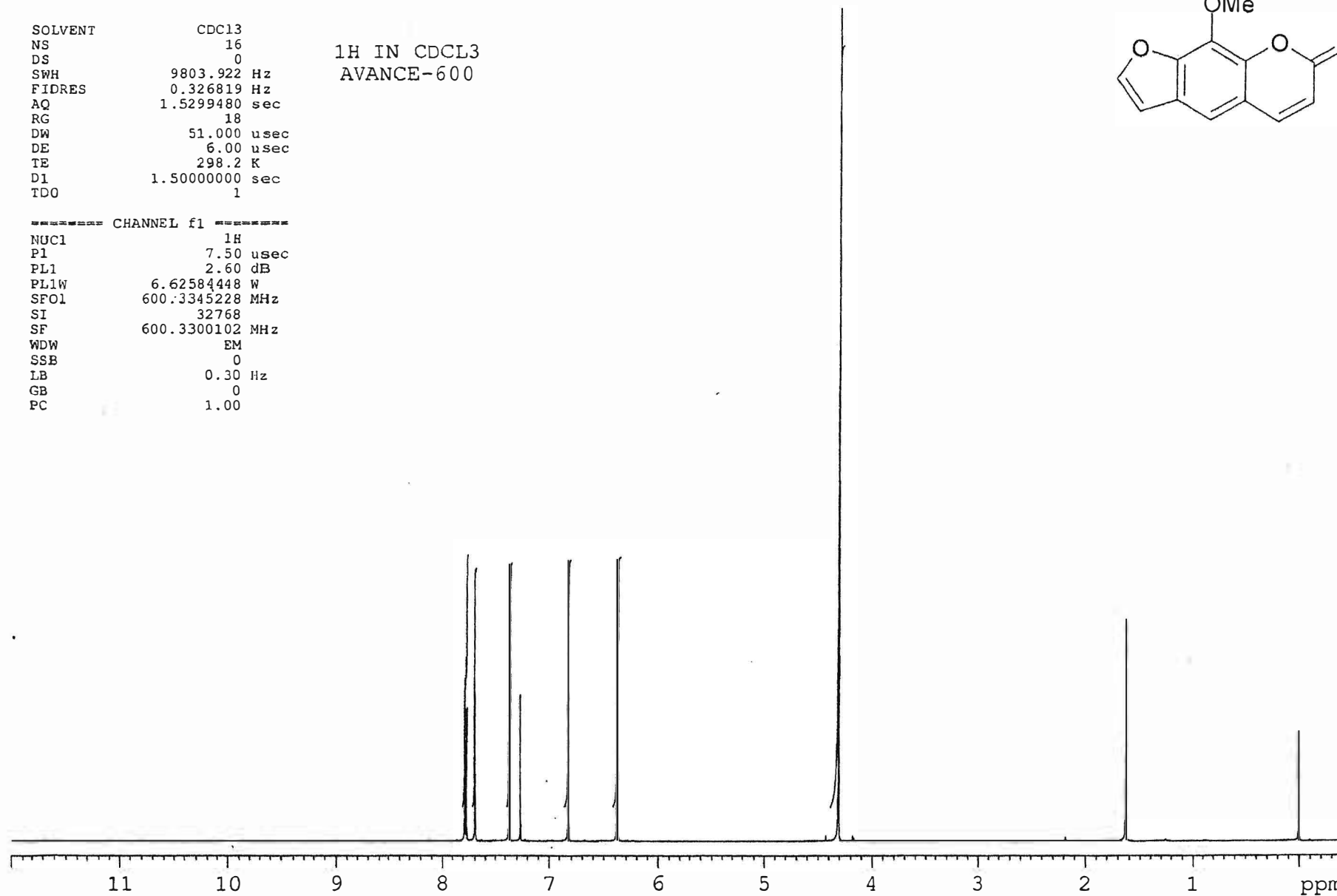
Catalog No.: 020530
Product Name: Xanthotoxin
Lot No.: 99286



SOLVENT CDC13
NS 16
DS 0
SWH 9803.922 Hz
FIDRES 0.326819 Hz
AQ 1.5299480 sec
RG 18
DW 51.000 usec
DE 6.00 usec
TE 298.2 K
D1 1.5000000 sec
TDO 1

1H IN CDCL3
AVANCE-600

----- CHANNEL f1 -----
NUC1 1H
P1 7.50 usec
PL1 2.60 dB
PL1W 6.62584448 W
SF01 600.3345228 MHz
SI 32768
SF 600.3300102 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



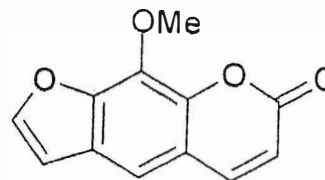
1.033
0.980
1.000
1.010
1.021
3.137



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Catalog No.: 020530
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