



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.: 19-226

Product: **IMPERATORIN**
(Marmelosin; Ammidin; 8-Isoamylenoxypsoralen)

CAS Number: [482-44-0]

Lot Number: 99285

Chemical Formula: C₁₆H₁₄O₄

Molecular Weight: 270.29

Melting Point: 95-99°C

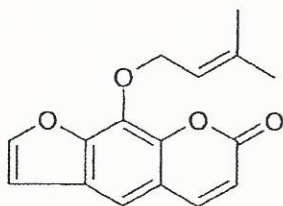
Appearance: Off white powder

TLC: Hexane:Ethyl acetate (7:3)

Solubility: Soluble in Chloroform

Storage: Store at +4°C

Purity(HPLC): 97.85%





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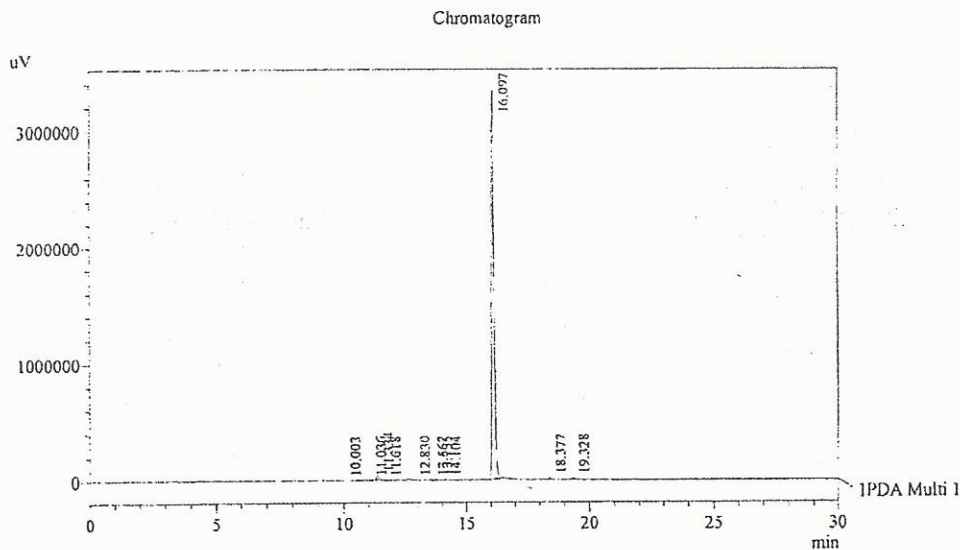
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HPLC ANALYSIS

Acquired by : Sanjeev
 Sample Name : Imperatorin
 Sample ID : Lot No:-99285
 Injection Volume : 20 uL
 Data Filename : 140212D.lcd
 Method Filename : Linear Gradient.M.lcm

Catalog No.: 19-226
 Product name: Imperatorin
 Lot No.: 99285

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
 23.0 90 10
 30.0 90 10



I PDA Multi 1 / 254nm 4nm

PeakTable

Peak#	Name	Ret. Time	Area	Area %	Relative Retention Time
1	RT:10.003	10.003	10800	0.04	0.73
2	RT:11.036	11.036	23117	0.09	0.80
3	RT:11.334	11.334	239079	0.92	0.83
4	RT:11.618	11.618	10101	0.04	0.85
5	RT:12.830	12.830	7897	0.03	0.93
6	RT:13.562	13.562	5149	0.02	0.99
7	RT:13.735	13.735	18871	0.07	1.00
8	RT:14.104	14.104	13745	0.05	1.03
9	RT:16.097	16.097	25449334	97.85	1.17
10	RT:18.377	18.377	109510	0.42	1.34
11	RT:19.328	19.328	121896	0.47	1.41
Total			26009500	100.00	



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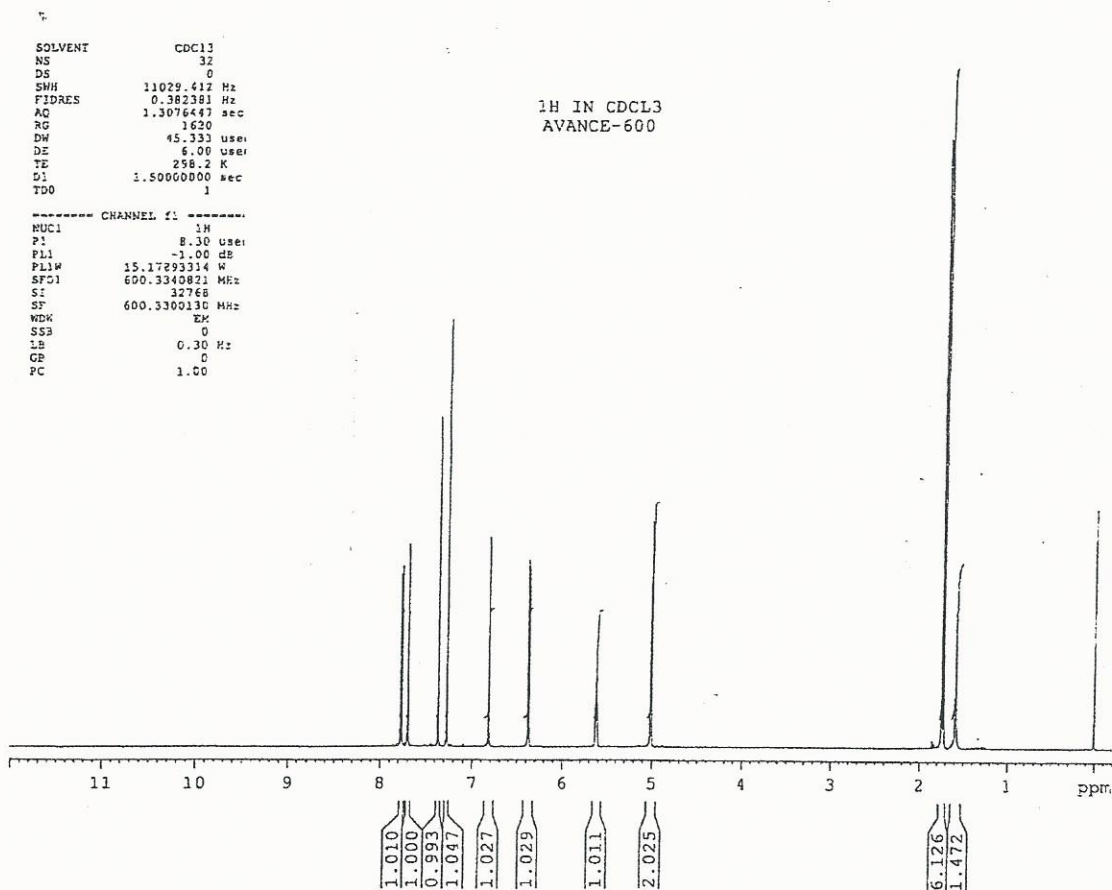
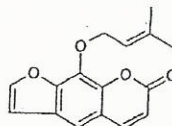
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Catalog No.: 19-226
Product name: Imperatorin
Lot No.: 99285





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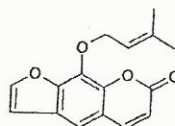
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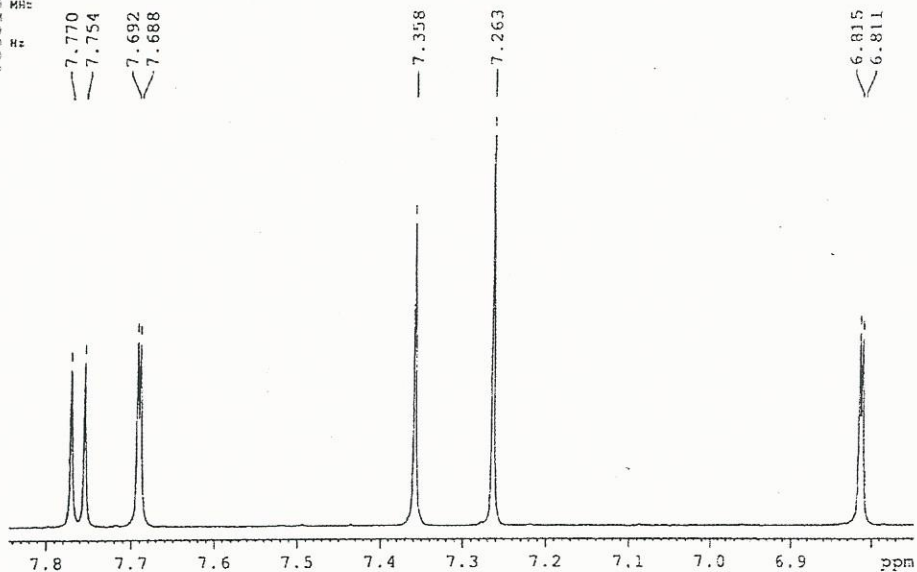
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SOLVENT CDCl3
NS 32
DS 0
SWH 11029.412 Hz
FIDRES 0.382381 Hz
AQ 1.3076447 sec
RG 1620
DN 45.333 usec
DE 6.00 usec
TE 298.2 K
D1 1.5000000 sec
TD0 1

1H IN CDCl3
AVANCE-600

----- CHANNEL f1 -----
NUC1 1H
P1 8.30 usec
PL1 -1.00 dB
PL1W 15.17892314 W
SFC1 600.3140821 MHz
SI 32760
SF 600.3300130 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00





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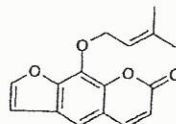
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TDC J

1H IN CDCl₃
AVANCE-600

***** CHANNEL f1 *****
NUC1 1H
P1 8.30 usec
PL1 -1.00 dB
PL1W 15.17893314 W
SFO1 600.3340821 MHz
S1 32768
SF 600.3300135 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

