



# 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](http://www.indofinechemical.com)

e-mail: [chemical@indofinechemical.com](mailto:chemical@indofinechemical.com)

## CERTIFICATE OF ANALYSIS

Cat No.: 19-450

Product: 7-DIETHYLAMINOCOUMARIN

Cas Number: [20571-42-0]

Lot Number: 1211255

Chemical Formula: C<sub>13</sub>H<sub>15</sub>NO<sub>2</sub>

Molecular Weight: 217.27

Melting Point: 88-90°C

Appearance: Yellow powder

Solubility: Soluble in Chloroform

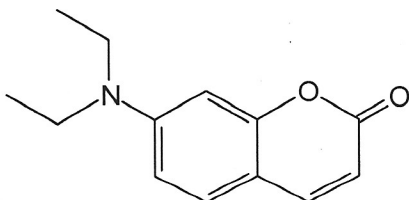
TLC: Hexane:Ethyl acetate (7:3)

NMR Spectrum: Enclosed

Moisture(KF): 0.30%

Storage: Cool dry place

Purity(HPLC): 99.27%





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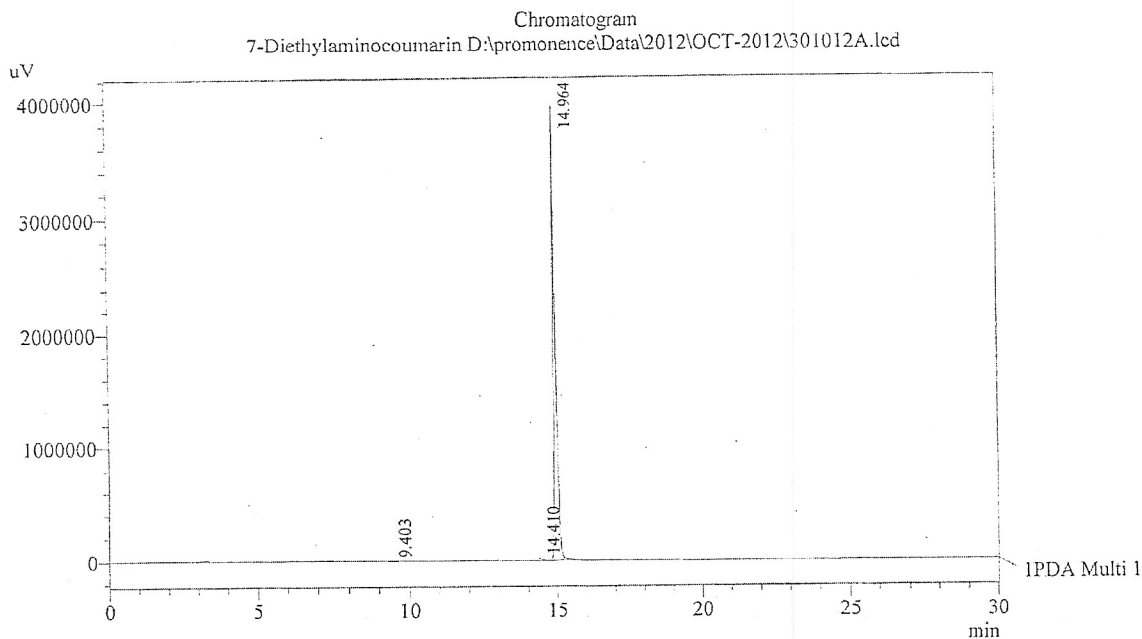
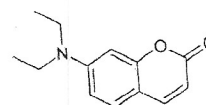
e-mail: [chemical@indofinechemical.com](mailto:chemical@indofinechemical.com)

## HPLC ANALYSIS

Acquired by : Sanjeev  
Sample Name : 7-Diethylaminocoumarin  
Sample ID : 100 gms Lot  
Injection Volume : 20 uL  
Data Filename : 301012A.lcd  
Method Filename : Linear Gradient.M.lcm

Catalog no.: 19-450  
Product name: 7-Diethylaminocoumarin  
Lot No.: 1211255

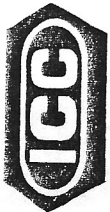
Column : LUNA C-18(2), (250mm x4.6mm 5.0µ)  
Flow : 1.000 mL/min.  
Mobile Phase : A(0.05% TFA in water) B(Acetonitrile)  
0.01 90 10  
12.0 10 90  
20.0 10 90  
23.0 90 10  
30.0 90 10



PeakTable

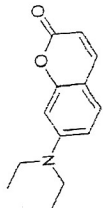
PDA Ch1 240nm 4nm

Peak#	Name	Ret. Time	Area	Area %	Relative Retention Time
1	RT:9.403	9.403	7646	0.03	0.63
2	RT:14.410	14.410	164954	0.70	0.96
3	7-Diethylaminocoumarin	14.964	23486305	99.27	1.00
Total			23658905	100.00	



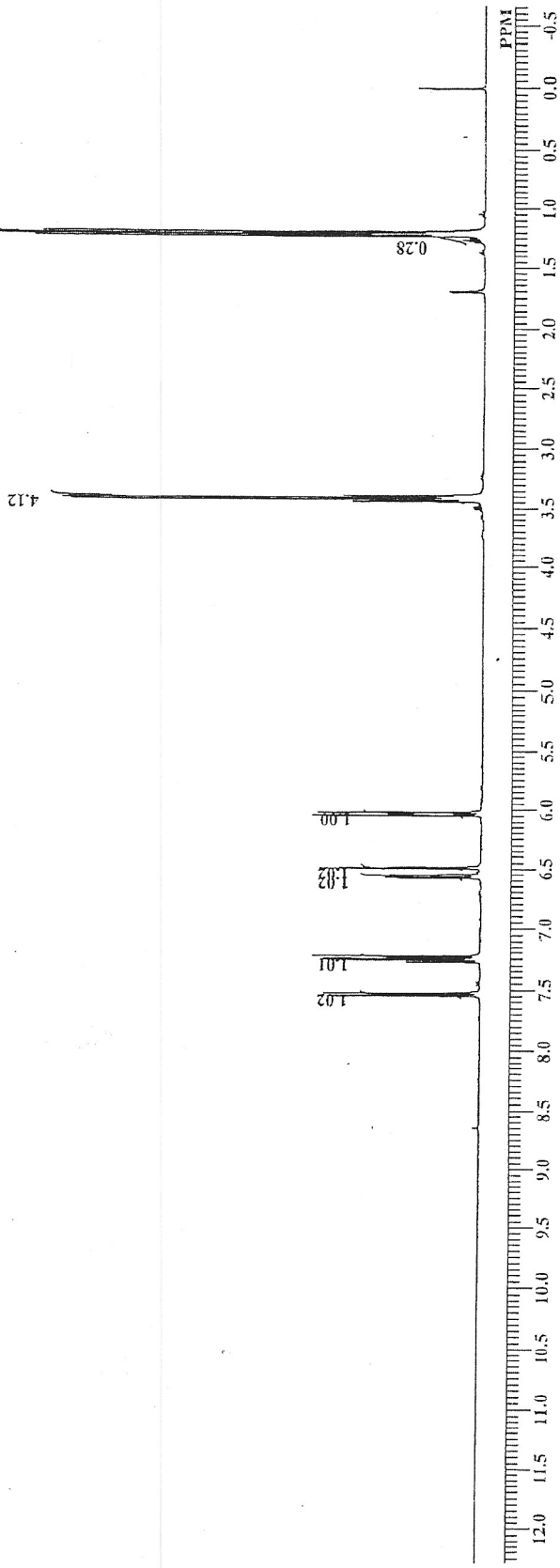
INDOFINE Chemical Company, Inc.  
 121 STRYKER LANE  
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 HILLSBOROUGH, NJ 08844

Catalog no.: 19-450  
 Product name: 7-Diethylaminocoumarin  
 Lot No.: 1211255



7-D.E.A.C IH NMR CDC13

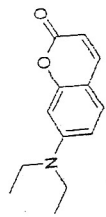
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 OBNUC IH  
 EXMOD NON  
 OBFRQ 399.65 MHz  
 OBSET 124.00 KHz  
 OBFIN 10500.00 Hz  
 POINT 65536  
 FREQU 7992.01 Hz  
 SCANS 16  
 ACQTIM 8.2002 sec  
 PD 3.0000 sec  
 PWI 6.00 usec  
 IRNUC IH  
 CTEMP 18.9 c  
 SLVNT CDCL3  
 EXREF 0.00 ppm  
 BF 0.30 Hz  
 RGAIN 15





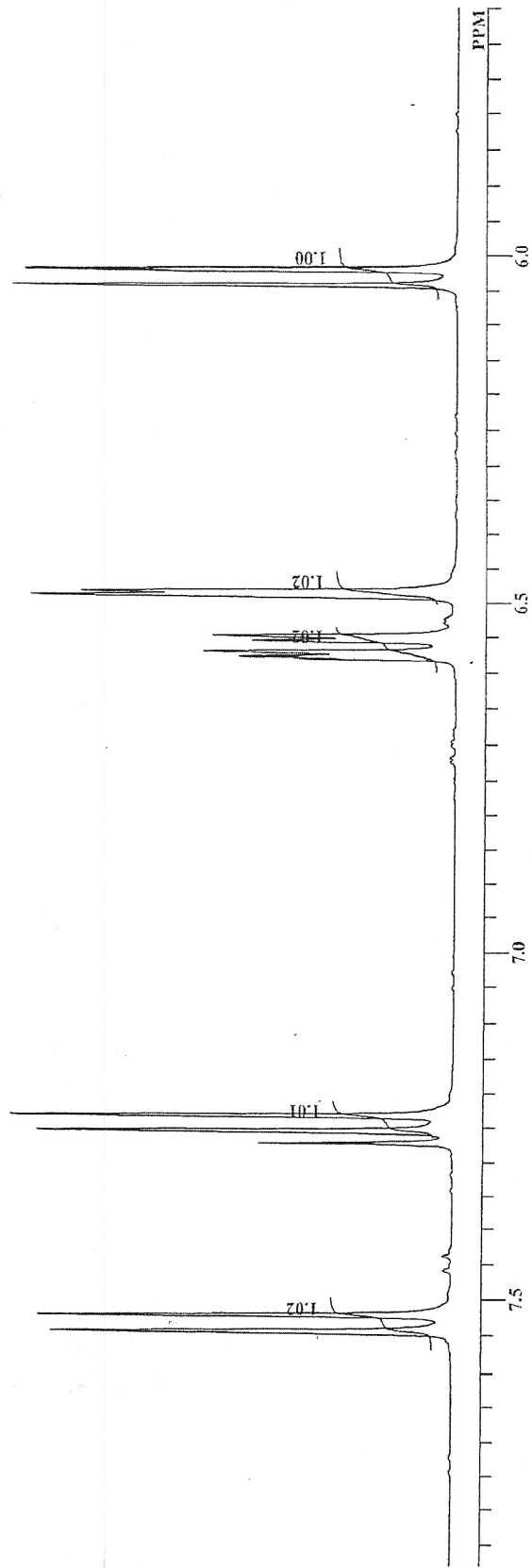
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7-D.E.A.C III NMR CDC13

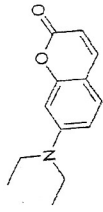
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COMINT 7-D.E.A.C.III NMR CDC13  
OBNUC III  
EXMOD NON  
OBFRQ 399.65 MHz  
OBSET 124.00 KHz  
OBFIN 10500.00 Hz  
POINT 65536  
FREQU 7992.01 Hz  
SCANS 16  
ACQTM 8.2002 sec  
PD 3.0000 sec  
PWI 6.00 usec  
IRNUC III  
CTEMP 18.9 c  
CDCL3  
SLVNT  
EXREF 0.40 ppm  
BF 0.30 Hz  
RGAIN 15





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7-D.E.A.C III NMR CDCl3

DRIFL 7-D.E.A.C.als  
COMNT 7-D.E.A.C III NMR CDCl3  
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 6.00 usec  
IRNUC 1H  
CTEMP 18.9 c  
SLVNT CDCl3  
EXREF 0.00 ppm  
BF 0.30 Hz  
RGAIN 15

