



INDOFINE Chemical Company, Inc.

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

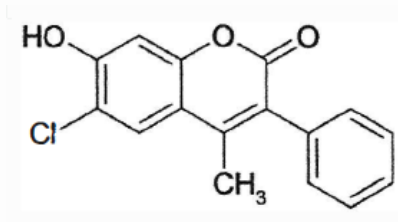
Phone: (908) 359-6778 • FAX: (908) 359-1179

website: www.indofinechemical.com

e-mail: chemical@indofinechemical.com

CERTIFICATE OF ANALYSIS

<u>Catalog Number:</u>	19-417
<u>Product Name:</u>	6-CHLORO-7-HYDROXY-4-METHYL-3-PHENYLCOUMARIN
<u>Lot Number:</u>	0109094
<u>Chemical Formula:</u>	C ₁₆ H ₁₁ ClO ₃
<u>Molecular Weight:</u>	286.72
<u>Melting Point:</u>	292-295°C
<u>Appearance:</u>	White fluffy powder
<u>Solubility:</u>	Soluble in DMSO
<u>TLC:</u>	Chloroform : Methanol (9:1)
<u>NMR Spectrum:</u>	Enclosed (Confirms to the structure)
<u>Storage:</u>	Cool dry place
<u>Purity (HPLC):</u>	99.13%





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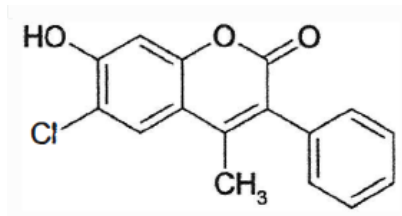
Catalog No.: 19-417

Product Name: 6-Chloro-7-hydroxy-4-methyl-3-phenylcoumarin

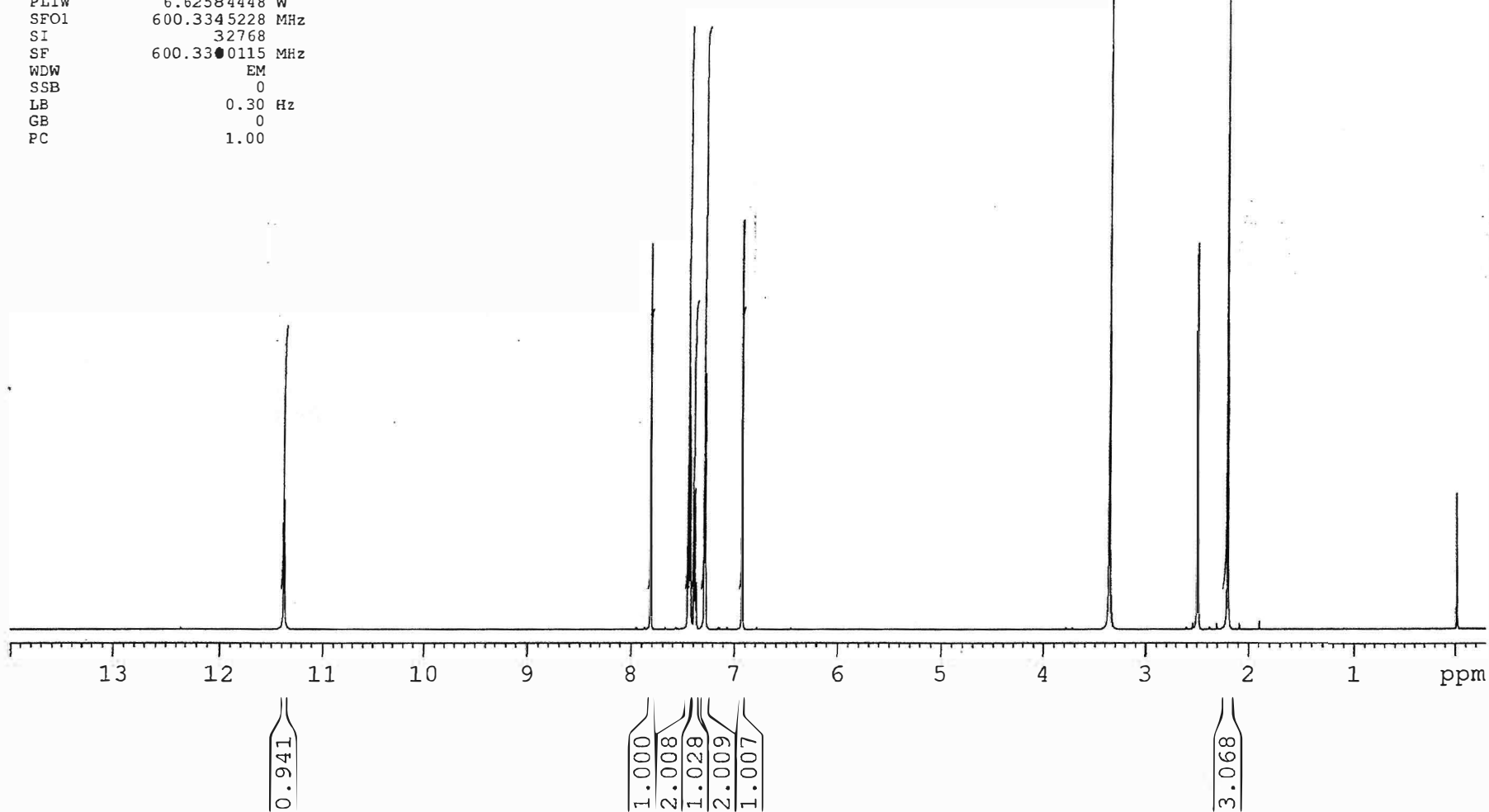
Lot No.: 0109094

SOLVENT DMSO
NS 16
DS 0
SWH 9803.922 Hz
FIDRES 0.326819 Hz
AQ 1.5299480 sec
RG 22.6
DW 51.000 usec
DE 6.00 usec
TE 298.2 K
D1 1.50000000 sec
TD0 1

ICC-APR-27
1H IN DMSO
AVANCE-600



==== CHANNEL f1 =====
NUC1 1H
P1 7.50 usec
PL1 2.60 dB
PL1W 6.62584448 W
SFO1 600.3345228 MHz
SI 32768
SF 600.3300115 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

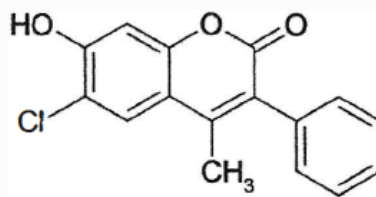




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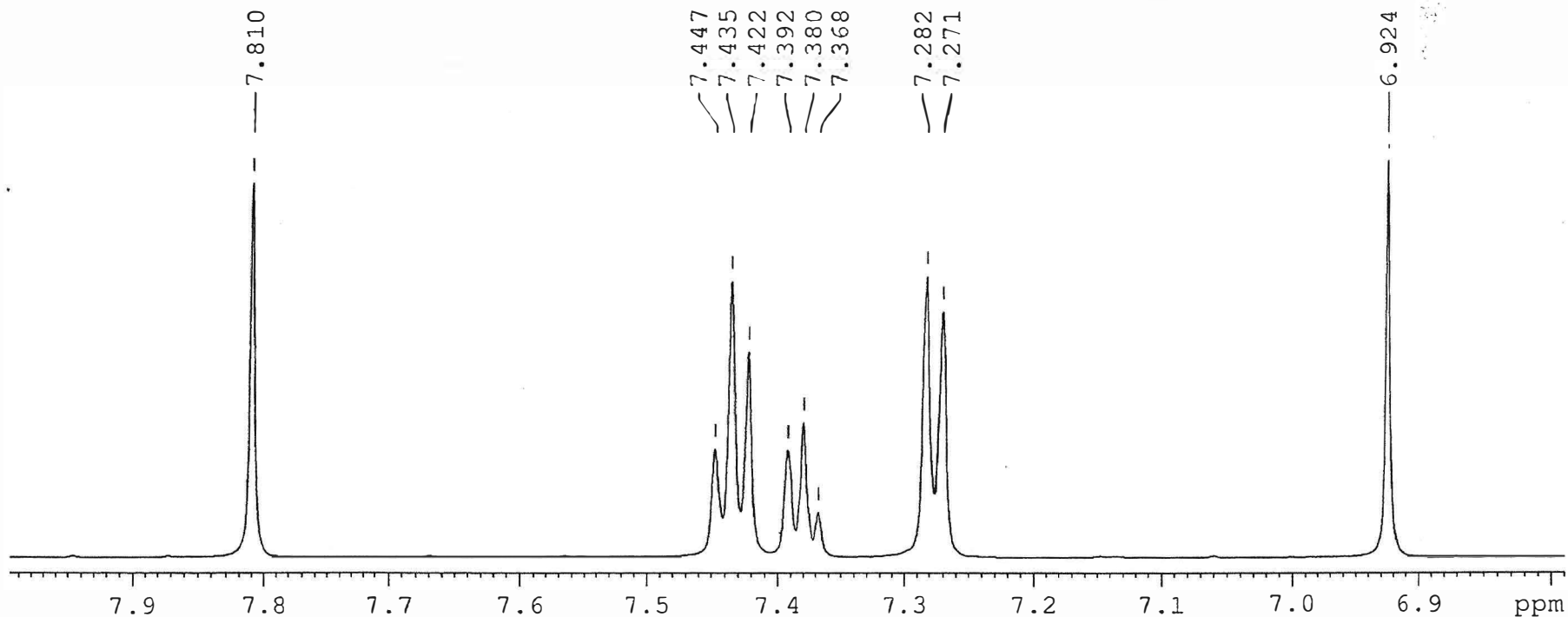
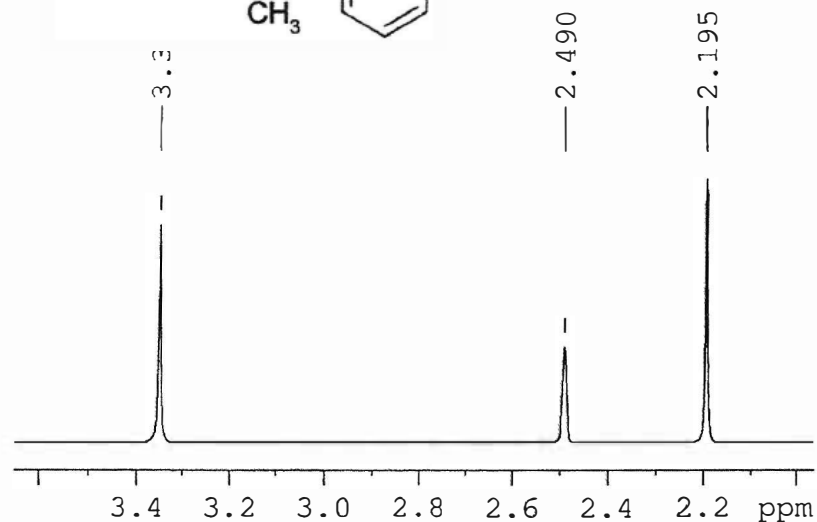
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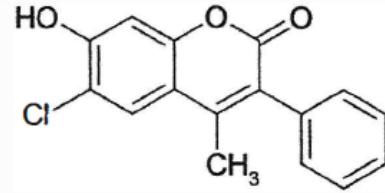
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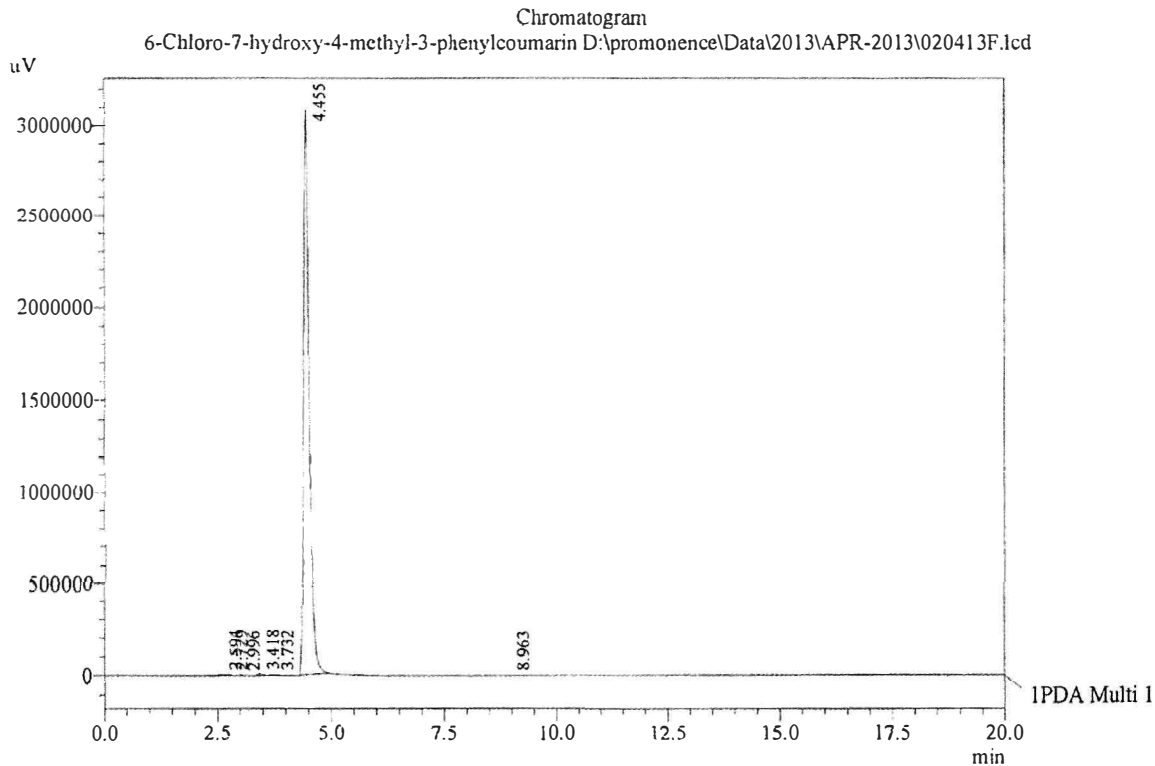
E-mail: chemical@indofinechemical.com

HPLC ANALYSIS



Acquired by : Sanjeev
 Sample Name : 6-Chloro-7-hydroxy-4-methyl-3-phenylcoumarin
 Sample ID : Lot No:- 0109094
 Injection Volume : 20 uL
 Data Filename : 020413F.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(20% of 0.05% TFA in water) B(80% of Acetonitrile)

Catalog No.: 19-417
 Product Name: 6-Chloro-7-hydroxy-4-methyl-3-phenylcoumarin
 Lot No.: 0109094



1 PDA Multi 1 / 230nm 4nm

PeakTable

PDA Ch1 230nm 4nm

Peak#	Name	Ret. Time	Area	Area %	Relative Retention Time
1	RT:2.594	2.594	49608	0.19	0.58
2	RT:2.729	2.729	43161	0.17	0.61
3	RT:2.996	2.996	10720	0.04	0.67
4	RT:3.418	3.418	62307	0.24	0.77
5	RT:3.732	3.732	50246	0.20	0.84
6	RT:4.455	4.455	25529383	99.13	1.00
7	RT:8.963	8.963	8881	0.03	2.01
Total			25754306	100.00	