



# 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

Catalog Number: 19-766

Product Name: 4-HYDROXY-7-METHOXY-3(4'-METHOXY-PHENYL)COUMARIN

Lot Number: 0406146

Molecular Formula: C<sub>17</sub>H<sub>14</sub>O<sub>5</sub>

Molecular Weight: 298.3

Melting Point: 220-221°C

Appearance: White powder

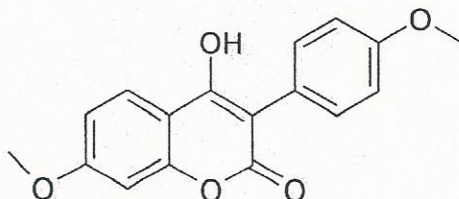
TLC: n-Hexane:Ethyl acetate (1:1)

Solubility: Soluble in chloroform

NMR Spectrum: Enclosed(conforms to the structure)

Storage: Store in a cool, dry place

Purity (HPLC): 99.17%





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## HPLC ANALYSIS

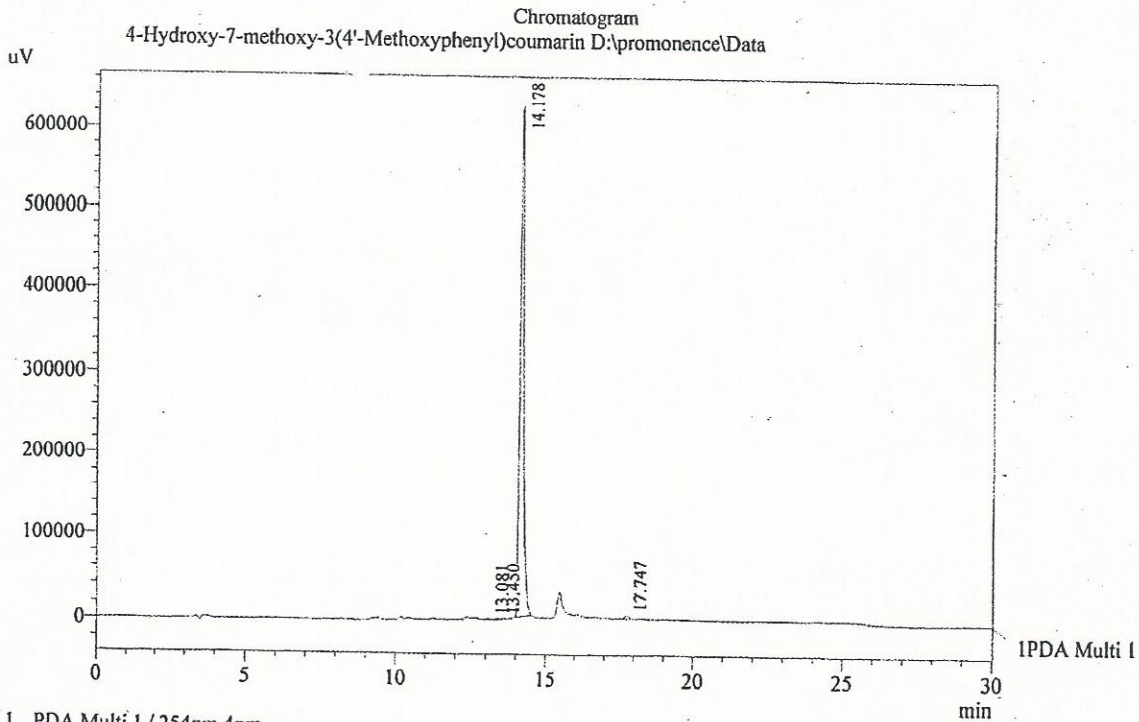
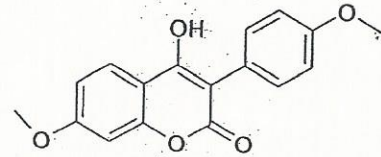
Catalog No.: 19-766

Product Name: 4-Hydroxy-7-methoxy-3(4'-methoxyphenyl)coumarin

Lot No.: 0406146

Acquired by : Admin  
Sample Name : 4-Hydroxy-7-methoxy-3(4'-Methoxyphenyl)coumarin  
Sample ID : 0406146  
Injection Volume : 20 uL  
Data Filename : 250215E.lcd  
Method Filename : Linear Gradient.M.lcm

Column : Gemini C-18, (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  
Diluent : Acetonitrile



PDA Ch1 254nm 4nm

PeakTable

Peak#	Name	Ret. Time	Area	Area %	Relative Retention Time
1	RT:13.081	13.081	6396	0.12	0.92
2	RT:13.450	13.450	9177	0.17	0.95
3	4-OH-7-ome-3(4'-omephens	14.178	5370116	99.17	1.00
4	RT:17.747	17.747	29147	0.54	1.25
Total			5414837	100.00	



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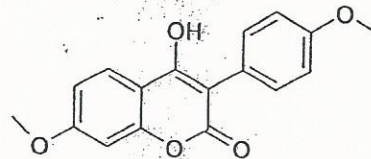
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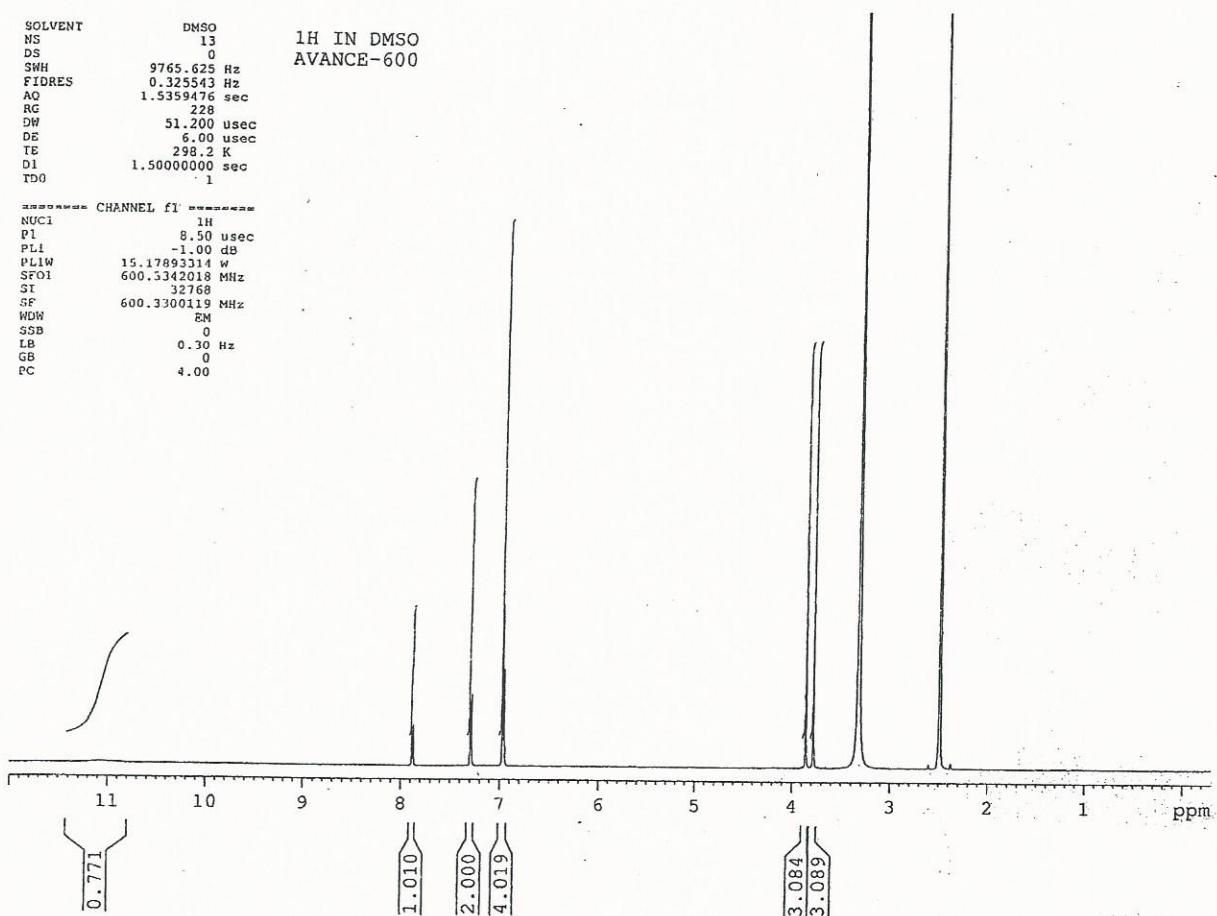
Lot No.: 0406146



SOLVENT DMSO  
NS 13  
DS 0  
SWH 9765.625 Hz  
FIDRES 0.325543 Hz  
AQ 1.5359476 sec  
RG 228  
DW 51.200 usec  
DE 6.00 usec  
TE 298.2 K  
D1 1.5000000 sec  
TD0 1

1H IN DMSO  
AVANCE-600

===== CHANNEL f1 =====  
NUC1 1H  
P1 8.50 usec  
PL1 -1.00 db  
PL1W 15.17893314 W  
SFO1 600.3342018 MHz  
SI 32768  
SF 600.3300119 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 4.00





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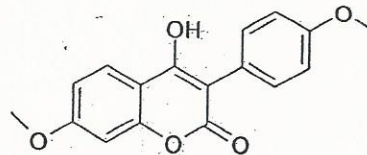
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