



INDOFINE Chemical Company, Inc.

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

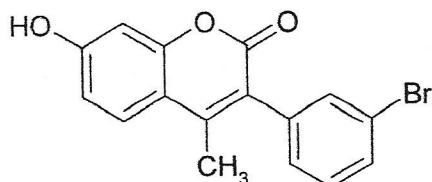
Phone: (908) 359-6778 • FAX: (908) 359-1179

website: www.indofinechemical.com

e-mail: chemical@indofinechemical.com

CERTIFICATE OF ANALYSIS

<u>Catalog Number:</u>	19-363
<u>Product Name:</u>	3(3'-BROMOPHENYL)-7-HYDROXY-4-METHYLCOUMARIN
<u>Lot Number:</u>	0012302
<u>Chemical Formula:</u>	C ₁₆ H ₁₁ BrO ₃
<u>Molecular Weight:</u>	331.17
<u>Melting Point:</u>	271-273°C
<u>Appearance:</u>	Off White Powder
<u>Solubility:</u>	Soluble in DMSO
<u>TLC:</u>	Hexane:Ethyl acetate (7:3)
<u>NMR Spectrum:</u>	Enclosed (Confirms to the structure)
<u>Storage:</u>	Cool dry place
<u>Purity (HPLC):</u>	99.42%





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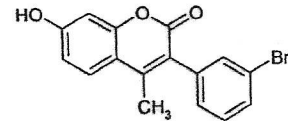
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HPLC ANALYSIS

Acquired by : Sanjeev
Sample Name : 3(3'-Bromophenyl)-7-hydroxy-4-methylcoumarin
Sample ID : Lot No: 0012302
Injection Volume : 20 uL
Data Filename : 130813N.lcd
Method Filename : Linear Isocratic.M.lcm

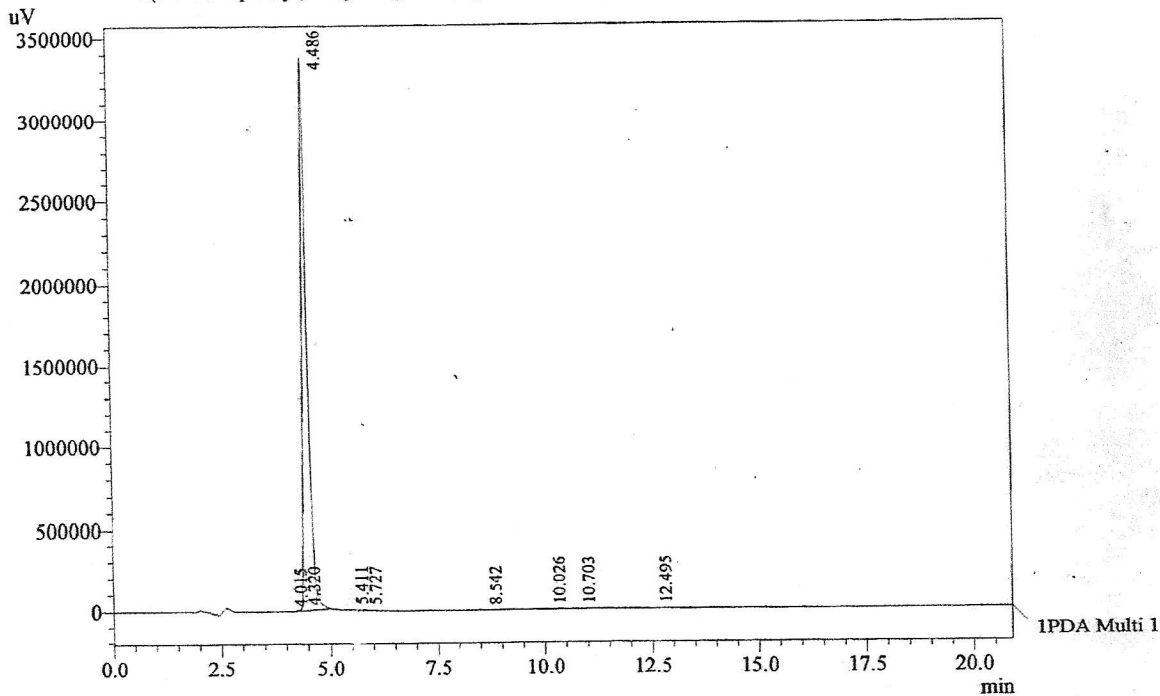
Catalog No.: 19-363
Product Name: 3(3'-Bromophenyl)-7-hydroxy-4-methylcoumarin
Lot No.: 0012302



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)

Chromatogram

3(3'-Bromophenyl)-7-hydroxy-4-methylcoumarin D:\promonence\Data\2013\AUG-2013\130813N.lcd



1 PDA Multi 1 / 220nm 4nm

PeakTable

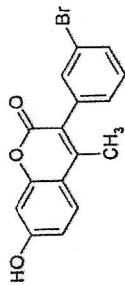
PDA Ch1 220nm 4nm

Peak#	Name	Ret. Time	Area	Area %	Relative Retention Time
1	RT:4.015	4.015	2991	0.01	0.89
2	RT:4.320	4.320	31802	0.12	0.96
3	RT:4.486	4.486	27177850	99.42	1.00
4	RT:5.411	5.411	32962	0.12	1.21
5	RT:5.727	5.727	29703	0.11	1.28
6	RT:8.542	8.542	39870	0.15	1.90
7	RT:10.026	10.026	6040	0.02	2.23
8	RT:10.703	10.703	3817	0.01	2.39
9	RT:12.495	12.495	11137	0.04	2.79
Total			27336173	100.00	



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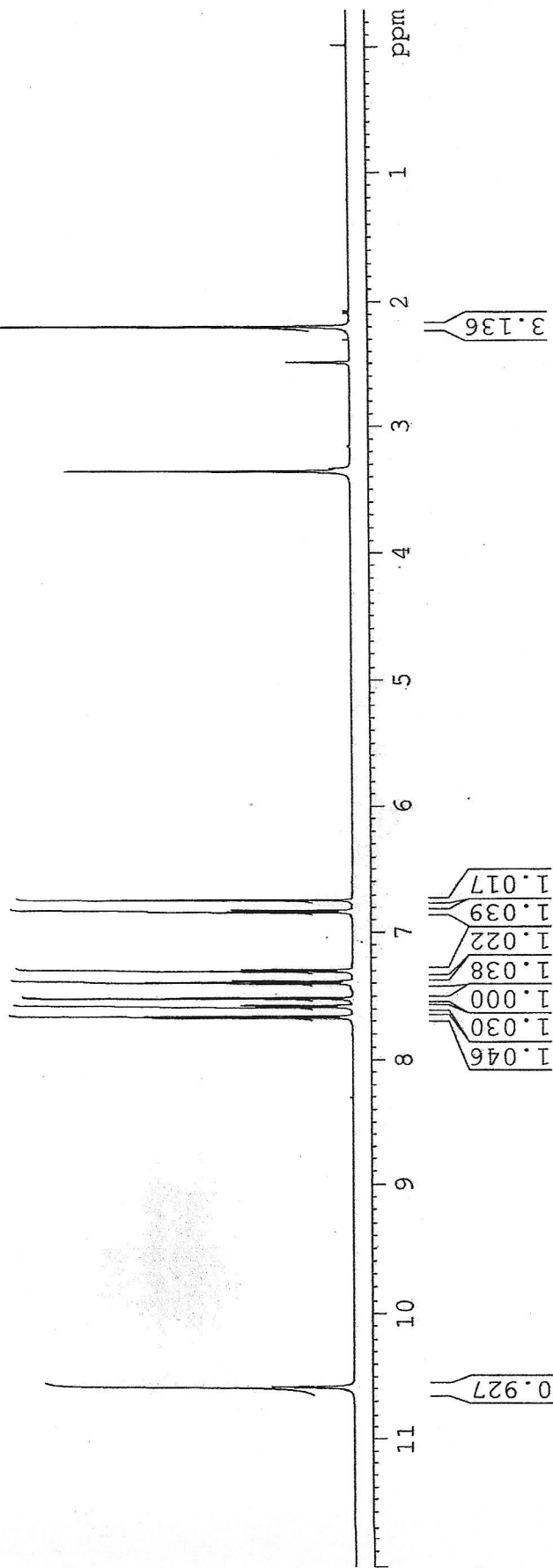
Catalog No.: 19-363
Product Name: 3(3'-Bromophenyl)-7-hydroxy-4-methylcoumarin
Lot No.: 0012302



SOLVENT DMSO
NS 16
DS 0
SWH 10330.578 Hz
FIDRES 0.344376 Hz
AQ 1.4519532 sec
RG 28.5
DW 48.400 usec
DE 6.00 usec
TE 298.2 K
D1 1.50000000 sec
TD0 1

1H IN DMSO
AVANCE-600

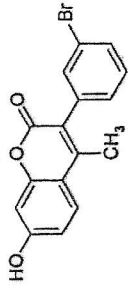
===== CHANNEL f1 =====
NUC1 1H
P1 7.50 usec
PL1 2.60 dB
PLLW 6.62584448 W
SFO1 600.3344836 MHz
SI 72768
SF 600.3300115 MHz
EM
WDW 0
SSB 0
LB 0
GB 0
PC 1.00





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Catalog No.: 19-363
 Product Name: 3-(3'-Bromophenyl)-7-hydroxy-4-methylcoumarin
 Lot No.: 0012302



SOLVENT DMSO 1
 NS 0
 DS 0
 SWH 6229.236 Hz
 FIDRES 0.207655 Hz
 AQ 2.4078894 sec
 RG 28.5
 DW 80.267 usec
 DE 6.00 usec
 TE 298.2 K
 D1 1.50000000 sec
 TDO 1

1H IN DMSO
 AVANCE-600

CHANNEL f1
 NUC1 1H
 P1 7.50 usec
 PL1 2.60 dB
 PL1W 6.62584448 W
 SFO1 600.3328708 MHz
 SI 32768
 SF 600.3300115 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GR 0
 PC 1.00

