



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

Catalog Number: 15-006

Product Name: **7-HYDROXY-4-TRIFLUOROMETHYLCOUMARIN**

CAS Number: [575-03-1]

Lot Number: 1308368

Chemical Formula: C₁₀H₅F₃O₃

Molecular Weight: 230.14

Melting Point: 180-182°C

Appearance: Off White powder

TLC: Hexane:Ethyl acetate (8:2)

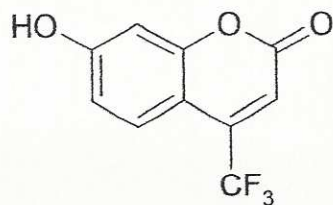
Solubility: Soluble in Acetone or DMSO

Moisture (KF): 0.20%

NMR Spectrum: Enclosed (Confirms to the structure)

Storage: Store in a cool, dry place

Assay (HPLC): 99.80%





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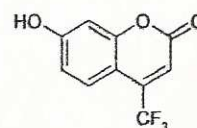
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HPLC ANALYSIS

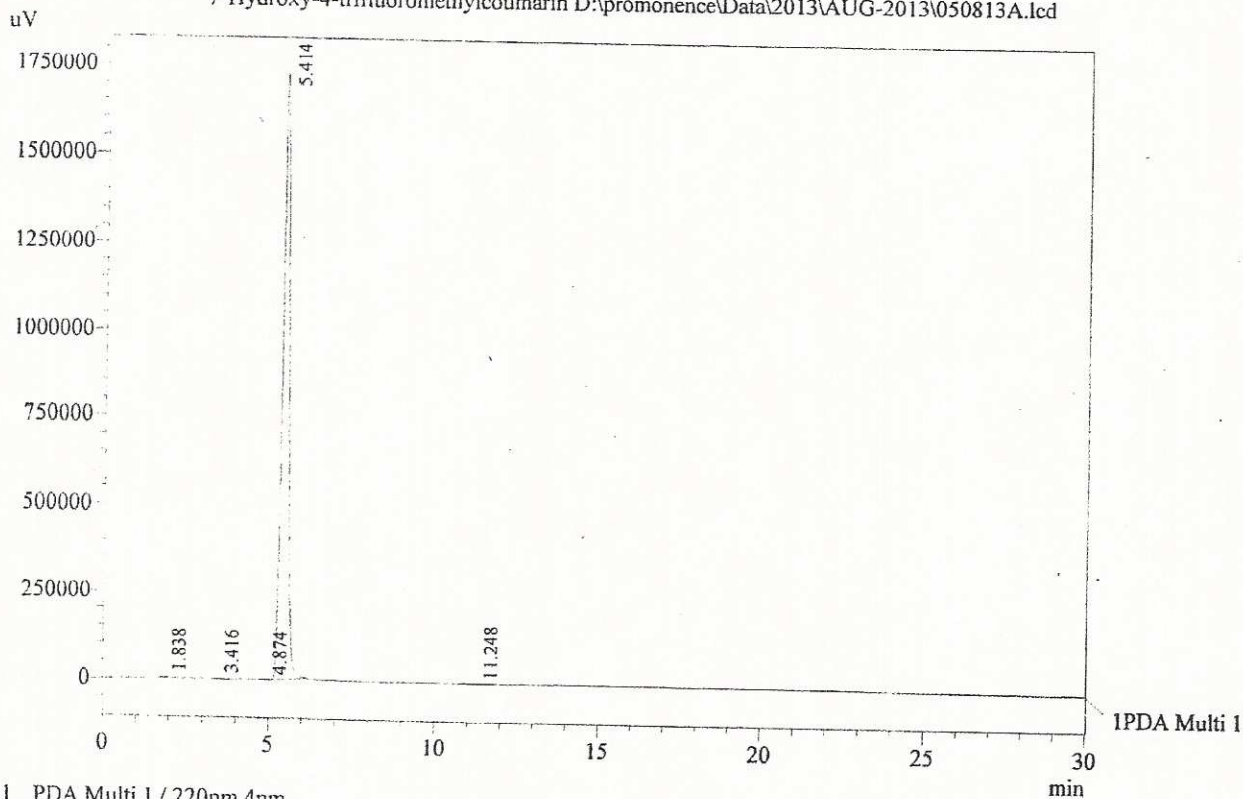
Acquired by : Sanjeev
Sample Name : 7-Hydroxy-4-trifluoromethylcoumarin
Sample ID : 225gm Lot
Injection Volume : 20 μ L
Data Filename : 050813A.lcd
Method Filename : Linear Isocratic M.lcm

Catalog No.: 15-006
Product Name: 7-Hydroxy-4-trifluoromethylcoumarin
Lot No.: 1308368



Column : LUNA C-18(2), (250mm x4.6mm 5.0 μ)
Flow : 1.500 mL/min.
Mobile Phase : A(50% of 0.05% TFA in water) B(50% of Acetonitrile)

Chromatogram
7-Hydroxy-4-trifluoromethylcoumarin D:\promonence\Data\2013\AUG-2013\050813A.lcd



PDA Ch1 220nm 4nm

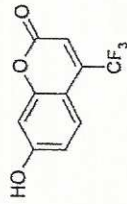
PeakTable

Peak#	Name	Ret. Time	Area	Area %	Relative Retention Time
1	RT:1.838	1.838	6465	0.03	0.34
2	RT:3.416	3.416	20673	0.09	0.63
3	RT:4.874	4.874	2153	0.01	0.90
4	7-OH-4-trifluoromethylcoumarin	5.414	23596216	99.80	1.00
5	RT:11.248	11.248	17877	0.08	2.08
Total			23643384	100.00	



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Lot No.: 1308368

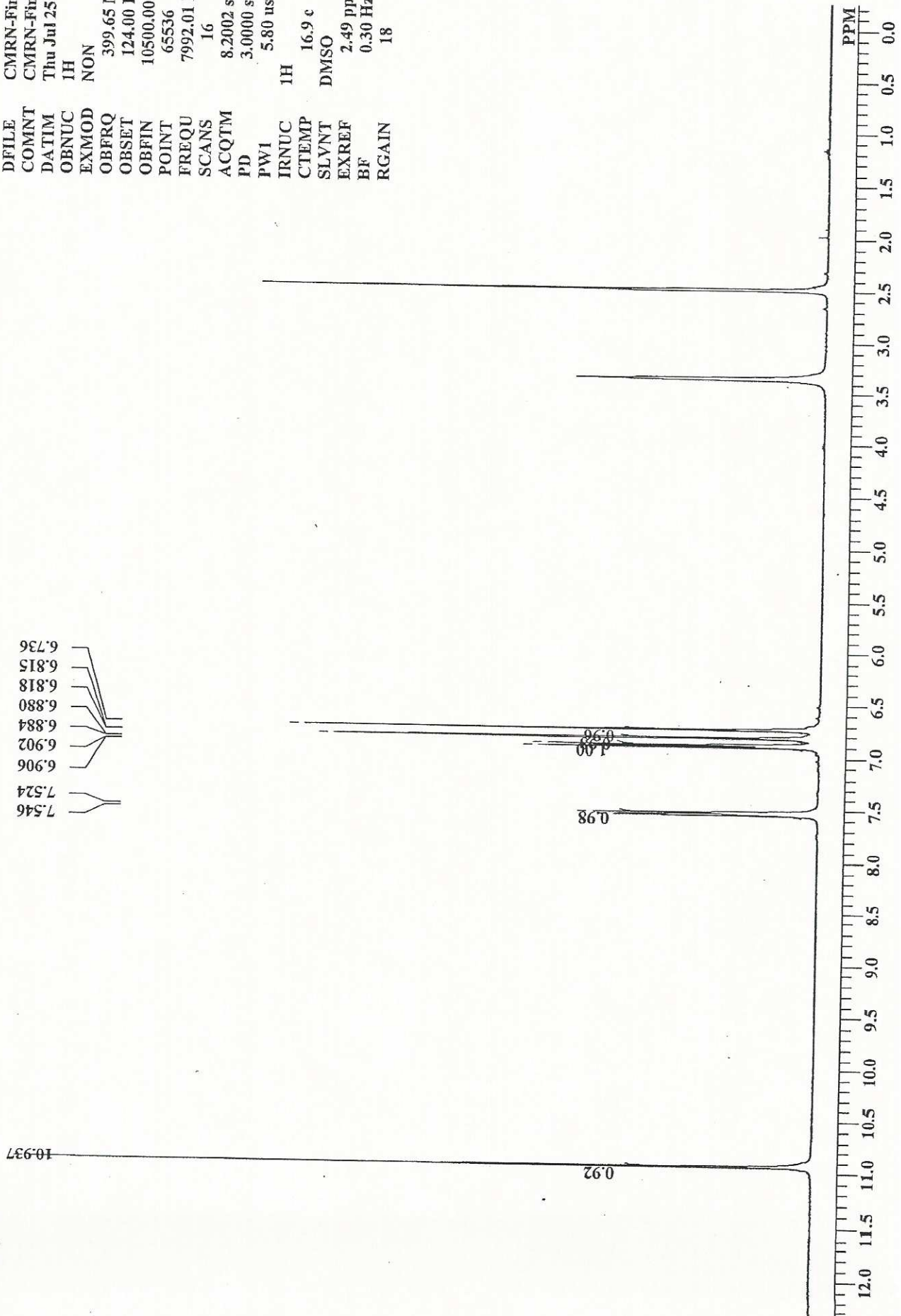


CMRN-Final 1H NMR DMSO-d6

Analysed By : MSR

7.546
7.524
6.906
6.902
6.884
6.880
6.818
6.815
6.736

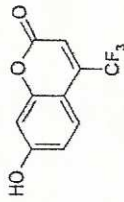
CMRN-Final 1H.als
CMRN-Final 1H NMR DMSO-d6
Thu Jul 25 22:47:43 2013
1H
NON
OBFRO 399.65 MHz
OBSET 124.00 KHz
OBFIN 10500.00 Hz
POINT 65536
FREQU 7992.01 Hz
ACQTM 16
PD 8.2002 sec
PW1 3.0000 sec
5.80 usec
IRNUC 1H
CTEMP 16.9 c
SLVNT DMSO
EXREF 2.49 ppm
BF 0.30 Hz
RGAIN 18





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 Lot No.: 1308368



CMRN-Final 1H NMR DMSO-d6

Analysed By: MSR

DFILE CMRN-Final 1H.als
 COMNT CMRN-Final 1H NMR DM
 DATIM Thu Jul 25 22:47:43 2013
 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 5.80 usec
 IRNUC 1H
 CTEMP 16.9 c
 SLVNT DMSO
 EXREF 2.49 ppm
 BF 0.30 Hz
 RGAIN 18

6.736
 6.815
 6.818
 6.880
 6.884
 6.902
 6.906

7.524
 7.546

