



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: H-101

Product Name: **7-METHOXYCOUMARIN**
(Herniarin)

CAS Number: [531-59-9]

Lot Number: 1809127

Chemical Formula: C₁₀H₈O₃

Molecular Weight: 176.17

Melting Point: 118-120°C

Appearance: Light orange powder

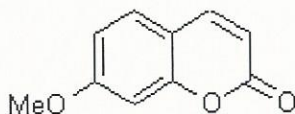
Solubility: Soluble in Chloroform

TLC: n-Hexane:Ethyl acetate (7:3)

NMR Spectrum: Enclosed (conforms to the structure)

Storage: Store in a cool, dry place

Purity(HPLC): 99.06%



Prepared by:
Ramesh Mandadi
Ramesh Mandadi
Director of Operations

Reviewed and approved by:
Sujata Moton
S. Moton
VP



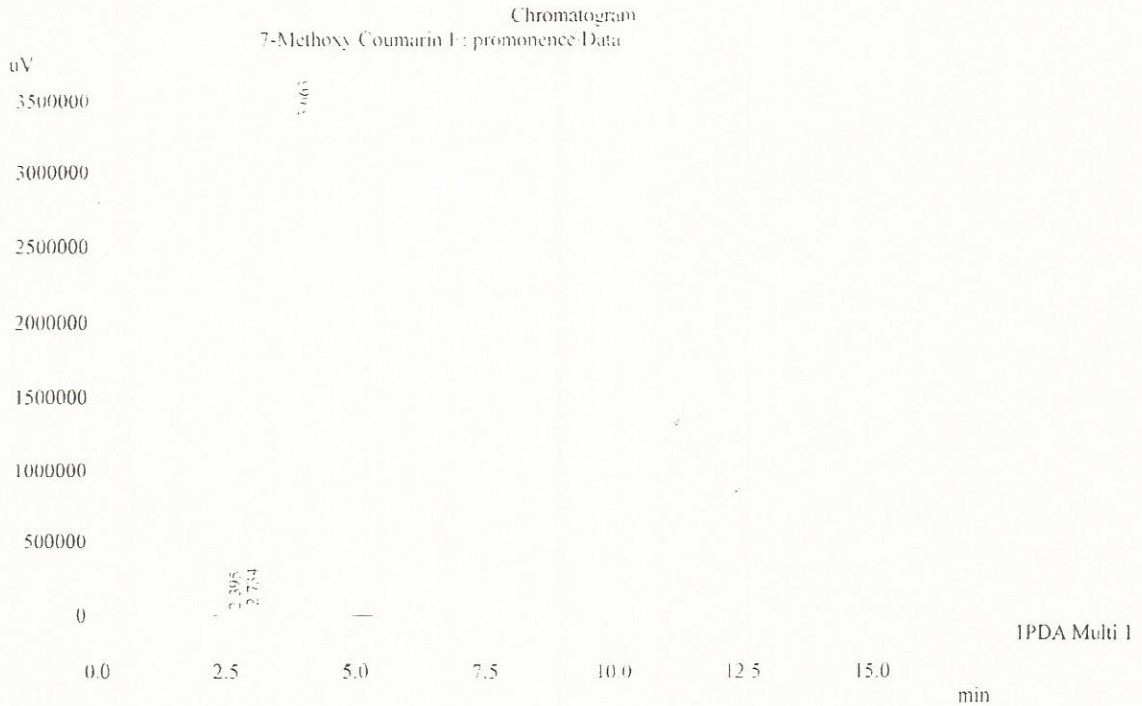
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HPLC ANALYSIS

Acquired by : Admin
Sample Name : 7-Methoxy Coumarin
Sample ID : #5.0 Kg-Lot-
Injection Volume : 20 uL
Data Filename : 020818D1.ed
Method Filename : Linear Isocratic.M.lcm
Report Filename : Default.lcr

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Product Name: 7-Methoxycoumarin
Lot No.: 1809127



1 PDA Multi 1 : 220nm 4nm

PDA Ch1 220nm 4nm		Peak Table				
Peak#	Name	Ret. Time	Height	Area %	Relative Retention Time	
1	R1:2.395	2.395	10232	0.22	0.00	
2	R1:2.734	2.734	30925	0.72	0.00	
3	R1:3.663	3.663	3481709	99.06	0.00	
Total			3522866	100.00		

Prepared by:
Ramesh Mandadi
Ramesh Mandadi
Director of Operations

Reviewed and Approved by:
Sujata Moton
Sujata Moton
VP



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7.650
 7.631
 7.585
 7.365
 6.853
 6.837
 6.831
 6.811
 6.260
 6.257
 6.254
 6.244
 6.238
 6.225

3.871
 3.871



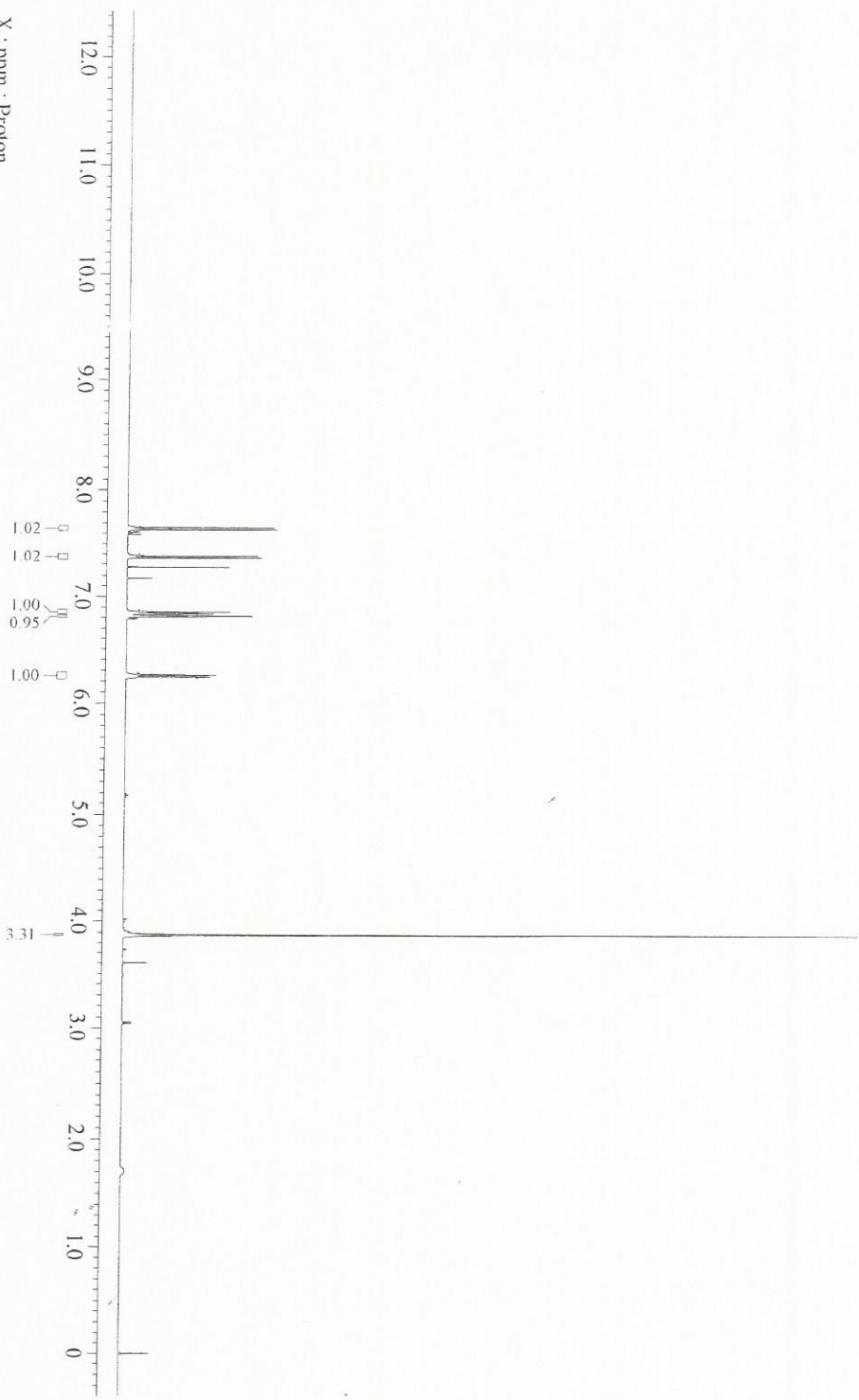
Catalog No.: H-101
 Product Name: 7-Methoxycoumarin
 Lot No.: 1809127

----- PROCESSING PARAMETERS -----
 exp (0.2[Hz], 0.01[s])
 trapezoid (0[%], 0[%], 80[%], 100[%])
 zerofill (1)
 fft (1, TRUE, TRUE)
 machinephase
 ppm
 auto_reference (5[%], TRUE)

Derived from: 7-Ome-C04_proton-1-1.jdf

Filename = 7-Ome-C04_proton-1-2.jdf
 Instrument = NMR-500MHz (JEOL)
 Instrument id = NMR-02
 Author = vzj1296
 Reviewed by = Purushotham
 Solvent = CHLOROFORM-D
 Spectrometer = JNM-EZ500R/S1
 Experiment = proton.jxp

Acquisition Parameter
 X Domain = 1H
 X_Offset = 7.01[ppm]
 X_Sweep = 11.28158451[kHz]
 Scans = 16
 Relaxation_Delay = 21[s]
 Temp_Get = 24.5[dc]





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7.950
7.751
7.483
7.392
6.853
6.837
6.811
6.811
6.279
6.279
6.279
6.279
6.279
6.279
6.279



Catalog No.: H-101
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```

---- PROCESSING PARAMETERS ----
sexp( 0.2[Hz], 0.0[s] )
trapezoid( 0[%], 0[%], 80[%], 100[%] )
zerofill( 1 )
fft( 1, TRUE, TRUE )
machinephase
ppm
auto_reference( 5[%], TRUE )
Derived from: 7-OMe-CO4_proton-1-1.jdf
  
```

```

Filename           = 7-OMe-CO4_proton-1-2.jdf
Instrument          = NMR-500MHz (DPO1)
Instrument id       = NMR-02
Author             = vrj1296
Reviewed by        = purushotham
Solvent             = CHLOROFORM-D
Spectrometer       = JNM-ECZ500R/S1
Experiment          = proton_jnp
Creation_Time       = 18-JUL-2018 01:35:13
Revision_Time      = 18-JUL-2018 14:39:40
Acquisition_Parameter
X_Domain            = 1H
X_Offset            = 7.0[ppm]
X_Sweep             = 11.28158845[kHz]
Scans               = 16
Relaxation_Delay    = 2[s]
Temp_Get            = 24.5[degC]
  
```

