

ICC **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: 19-053

Product name: **3-CYANO-7-HYDROXYCOUMARIN**
(3-Cyanoumbelliferone)

CAS Number: [19088-73-4]

Lot Number: 0606055

Chemical Formula: C₁₀H₅NO₃

Molecular Weight: 187.16

Melting Point: 274-275.5°C

Appearance: Light yellow powder

Solubility: Soluble in DMF

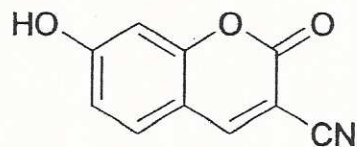
TLC: Chloroform:Methanol (9.5:0.5)

Storage: Store in a cool,dry place

NMR Spectrum: Enclosed

IR Spectrum: Enclosed

Purity(HPLC): 99+%





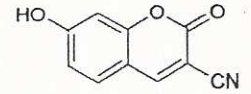
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HPLC ANALYSIS

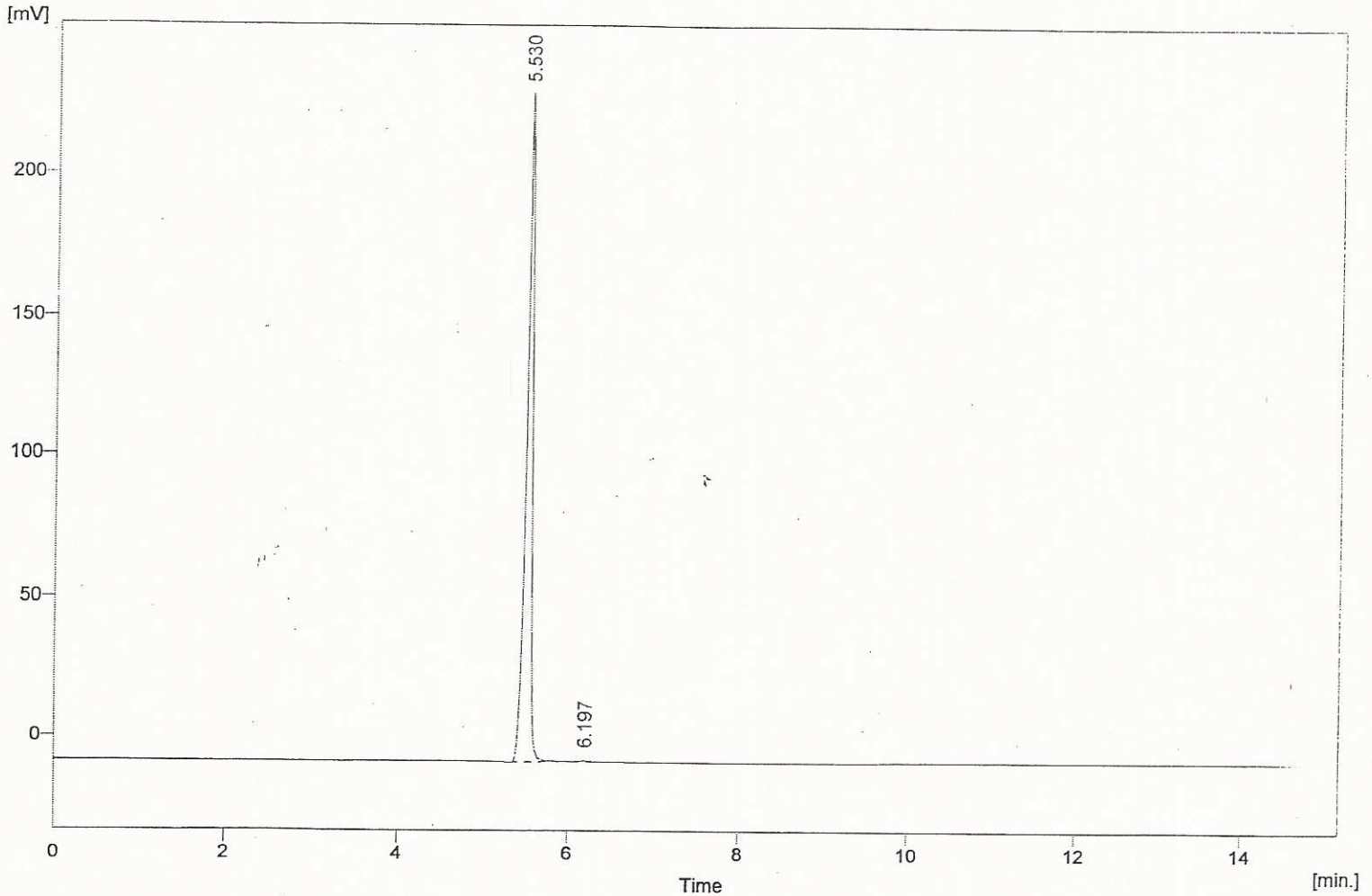
Mobile phase :Methanol(100%), Wave Length :254 nm,
Column : C₁₈(250x4.6mm), Flow rate : 0.5ml/min

Catalog No.: 19-053
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(3-Cyanoumbelliferone)

Lot No.: 0606055

Sample Info:

Sample ID	: NP-009	Amount	: 0
Sample	: 3-CYANO-7-HYDROXY COUMARIN	ISTD Amount	: 0
Inj. Volume [ml]	: 0	Dilution	: 1



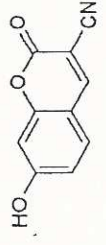
Result Table (Uncal - E:\HPLCWP-004066)

	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]
1	5.530	1105.917	237.141	99.7
2	6.197	2.956	0.404	0.3
	Total	1108.873	237.545	100.0

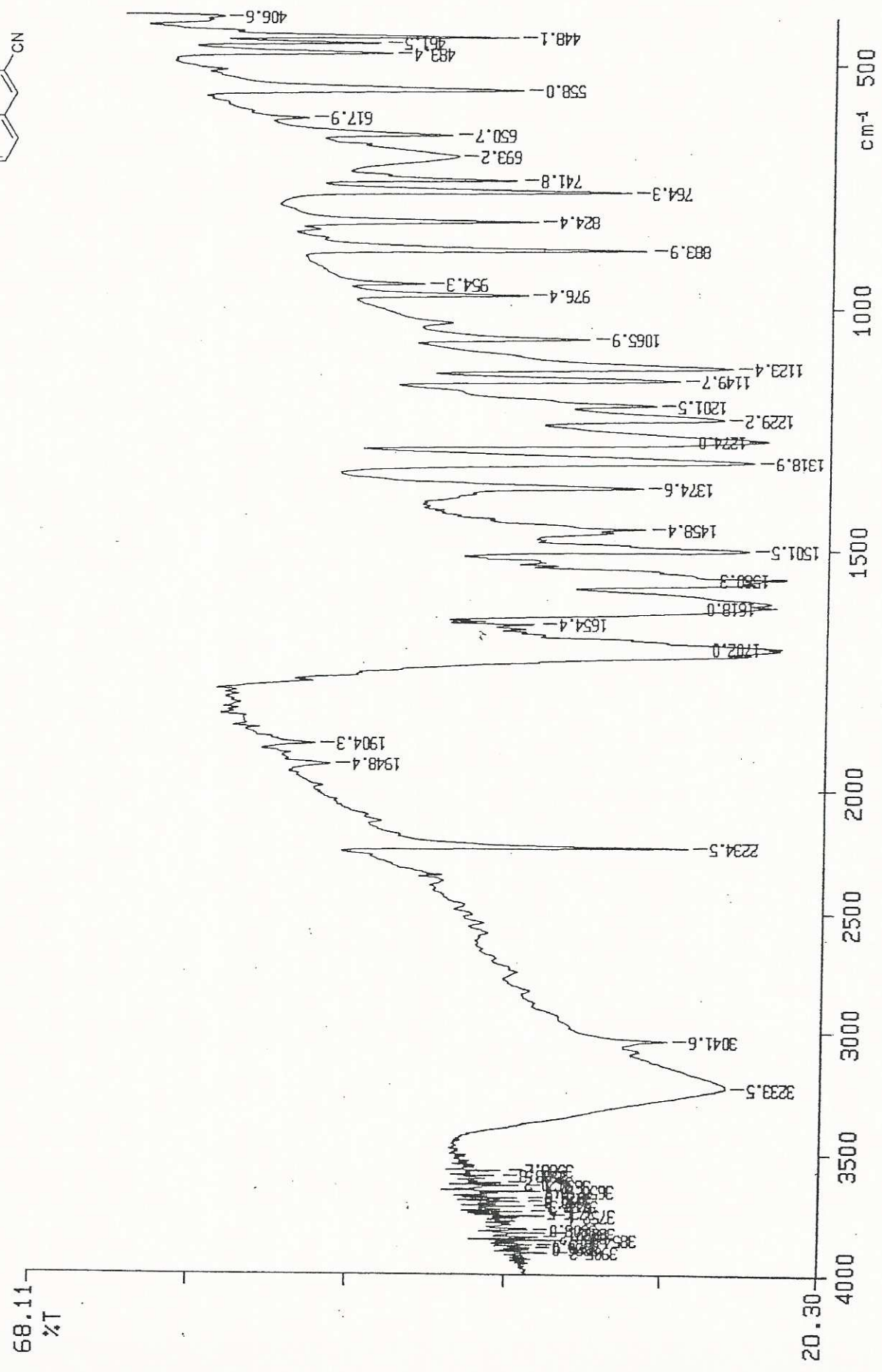


INDOFINE Chemical Company, Inc.
121 STRYKER LANE
BLDG. 30, SUITE 1
HILLSBOROUGH, NJ 08844

Catalog No.: 19-053
Product Name: 3-Cyano-7-hydroxycoumarin
(3-Cyanoumbelliferone)
Lot No.: 0606055



PERKIN ELMER



X: 1 scan, 4.0cm-1



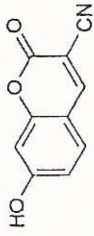
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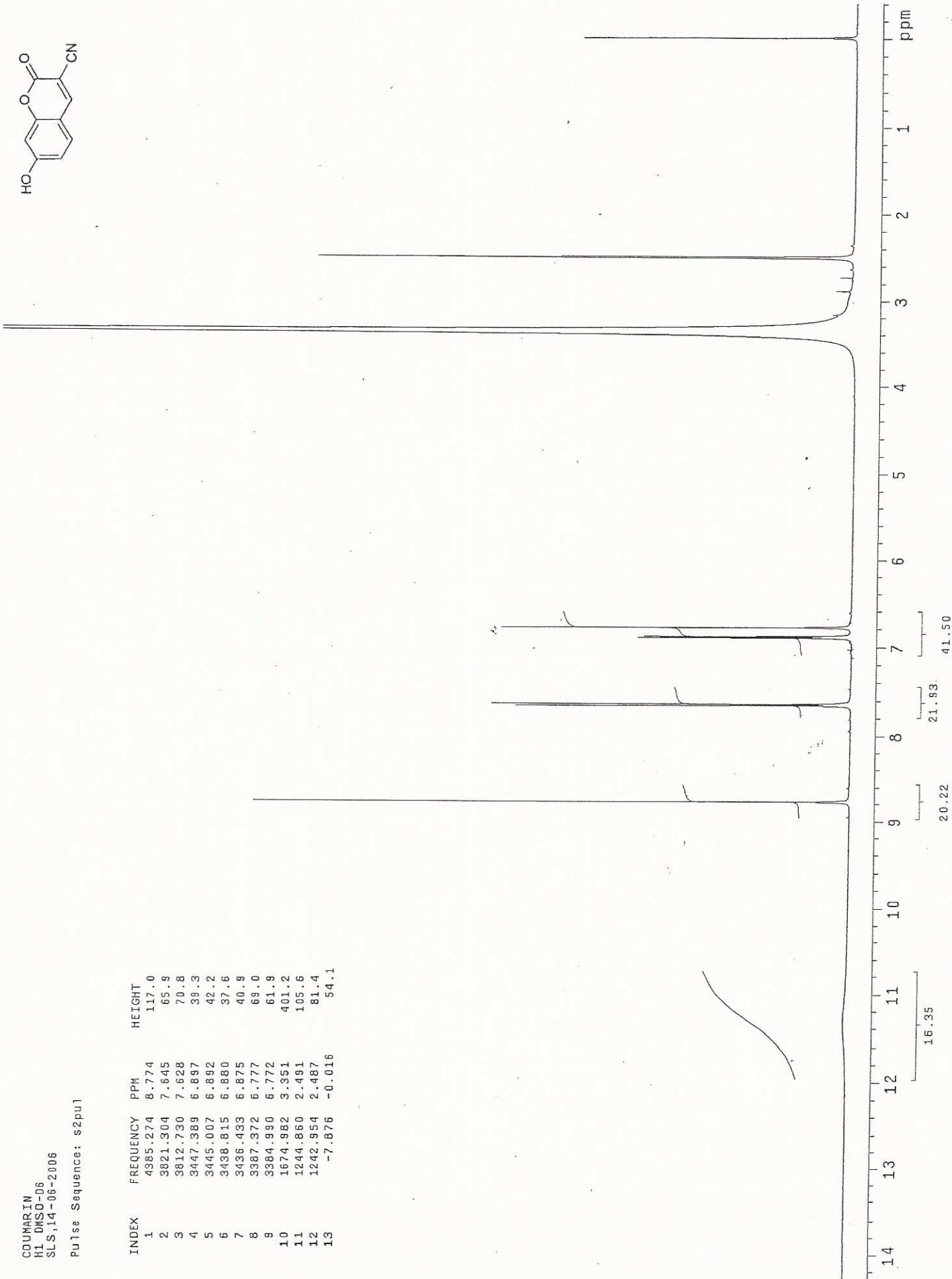
Lot No.:

COUMARIN
H1 DMSO-D6
SLS,14-06-2006

Pulse Sequence: szpu1



INDEX	FREQUENCY	PPM	HEIGHT
1	4385.274	8.774	117.0
2	3821.304	7.645	65.9
3	3812.730	7.628	70.8
4	3447.389	6.897	39.3
5	3445.007	6.892	42.2
6	3438.815	6.880	37.6
7	3436.433	6.875	40.9
8	3387.372	6.777	69.0
9	3384.990	6.772	61.9
10	1674.982	3.351	401.2
11	1244.860	2.491	105.6
12	1242.954	2.487	81.4
13	-7.876	-0.016	54.1





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(3-Cyanoumbelliferone)
0606055

Lot No.:

COUMARIN
H1, DMSO-D6
SLS, 14-06-2006

Pulse Sequence: s2pu1

