



# 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: K-001

Product Name: **KARANJIN**

CAS Number: [521-88-0]

Lot Number: 9370

Chemical Formula: C<sub>18</sub>H<sub>12</sub>O<sub>4</sub>

Molecular Weight: 292.28

Melting Point: 158-162°C

Appearance: White crystalline powder

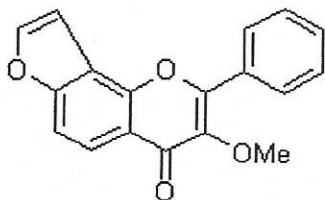
TLC: Hexane: Ethyl acetate (7:3)

Solubility: Soluble in chloroform

NMR Spectrum: Enclosed (conforms to the structure)

Storage: Store in a cool, dry place

Purity(HPLC): 97.44%





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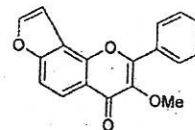
e-mail: [chemical@indofinechemical.com](mailto:chemical@indofinechemical.com)

## HPLC ANALYSIS

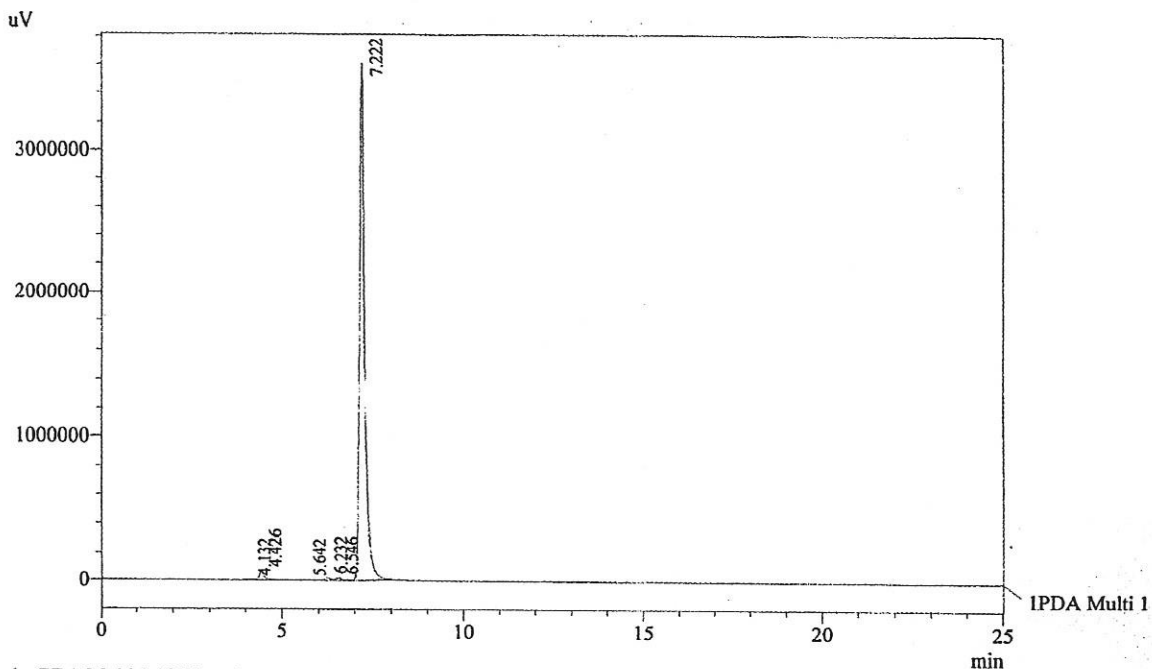
Acquired by : Sanjeev  
Sample Name : Karanjin  
Sample ID : Lot No:9370  
Injection Volume : 20 uL  
Data Filename : 200614G.lcd  
Method Filename : Linear Isocratic.M.lcm

Catalog No.: K-001  
Product Name: Karanjin  
Lot No.: 9370

Column : Gemini C-18(2), (250mm x4.6mm 5.0μ)  
Flow : 1.000 mL/min.  
Mobile Phase : A(30% of Water) B(70% of Acetonitrile)



Chromatogram



1 PDA Multi 1 / 254nm 4nm

PeakTable

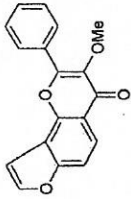
PDA Ch1 254nm 4nm

Peak#	Name	Ret. Time	Area	Area %	Relative Retention Time
1	RT:4.132	4.132	2992	0.01	0.57
2	RT:4.426	4.426	552856	1.56	0.61
3	RT:5.642	5.642	3641	0.01	0.78
4	RT:6.232	6.232	176049	0.50	0.86
5	RT:6.546	6.546	173300	0.49	0.91
6	Karanjin	7.222	34580640	97.44	1.00
Total			35489478	100.00	



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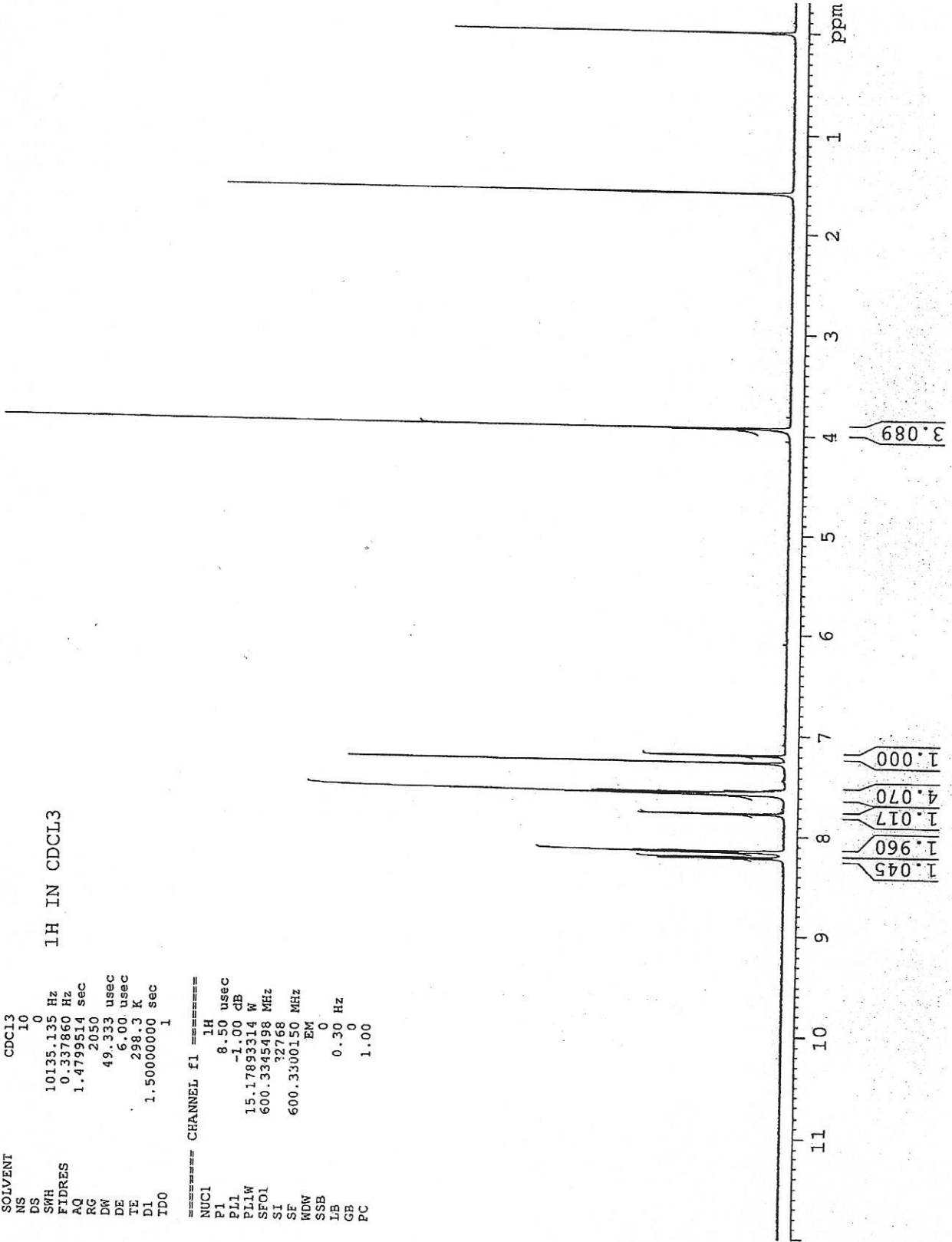
Catalog No.: K-001  
 Product Name: Karanjin  
 Lot No.: 9370



SOLVENT CDCL3  
 NS 10  
 DS 0  
 SWH 10135.135 Hz  
 FIDRES 0.537860 Hz  
 AQ 1.4799514 sec  
 RG 2050  
 DW 49.333 usec  
 DE 6.00 usec  
 TE 298.3 K  
 D1 20000000 sec  
 TD0 1

1H IN CDCL3

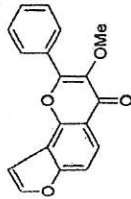
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 NUC1 1H  
 P1 8.50 usec  
 PL1 -1.00 dB  
 PLLW 15.17893314 W  
 SFO1 600.3345498 MHz  
 SI 32768  
 SF 600.3300150 MHz  
 MDW EM  
 SSB 0  
 LB 0.30 Hz  
 GB 0  
 PC 1.00





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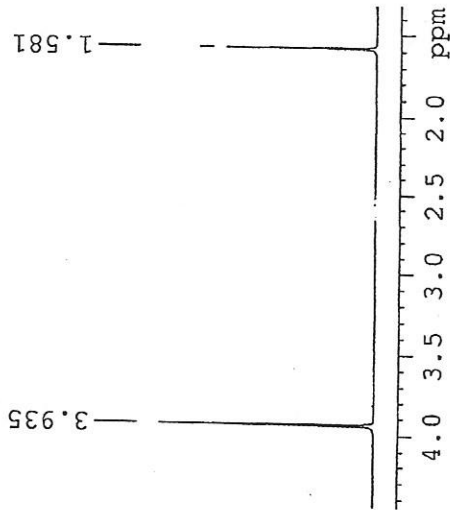
Catalog No.: K-001  
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SOLVENT CDCL3  
 NS 10  
 DS 0  
 SWH 10135.135 Hz  
 FIDRES 0.337860 Hz  
 AQ 1.4799514 sec  
 RG 2050  
 DW 49.333 usec  
 DE 6.00 usec  
 TE 298.3 K  
 D1 1.50000000 sec  
 TDO 1

1H IN CDCL3

===== CHANNEL f1 =====  
 NUC1 1H  
 P1 8.50 usec  
 PL1 -1.00 dB  
 PL1W 15.17893314 W  
 SF01 600.3345498 MHz  
 SI 32768  
 SF 600.3300150 MHz  
 WDW EM  
 SSB 0  
 LB 0.30 Hz  
 GB 0  
 PC 1.00



8.214  
 8.200  
 8.159  
 8.156  
 8.145

7.766  
 7.763

7.577  
 7.573  
 7.567  
 7.562  
 7.553  
 7.550  
 7.546  
 7.534

7.261  
 7.191  
 7.188

