



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: 06-022N

Product Name: **NOBILETIN**
(3',4',5,6,7,8-Hexamethoxyflavone)

CAS Number: [478-01-3]

Lot Number: 1510680

Chemical Formula: $C_{21}H_{22}O_8$

Molecular Weight: 402.39

Appearance: White powder

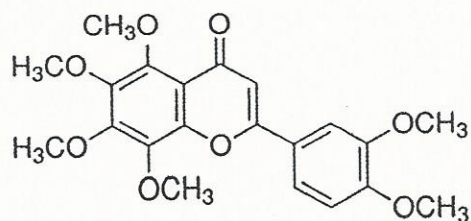
Loss on drying: 0.89%

Solubility: Soluble in chloroform

NMR Spectrum: Enclosed (Conforms to the structure)

Storage: Store in a cool, dry place. Protected from light and heat.

Purity(HPLC): 99.78%





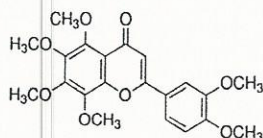
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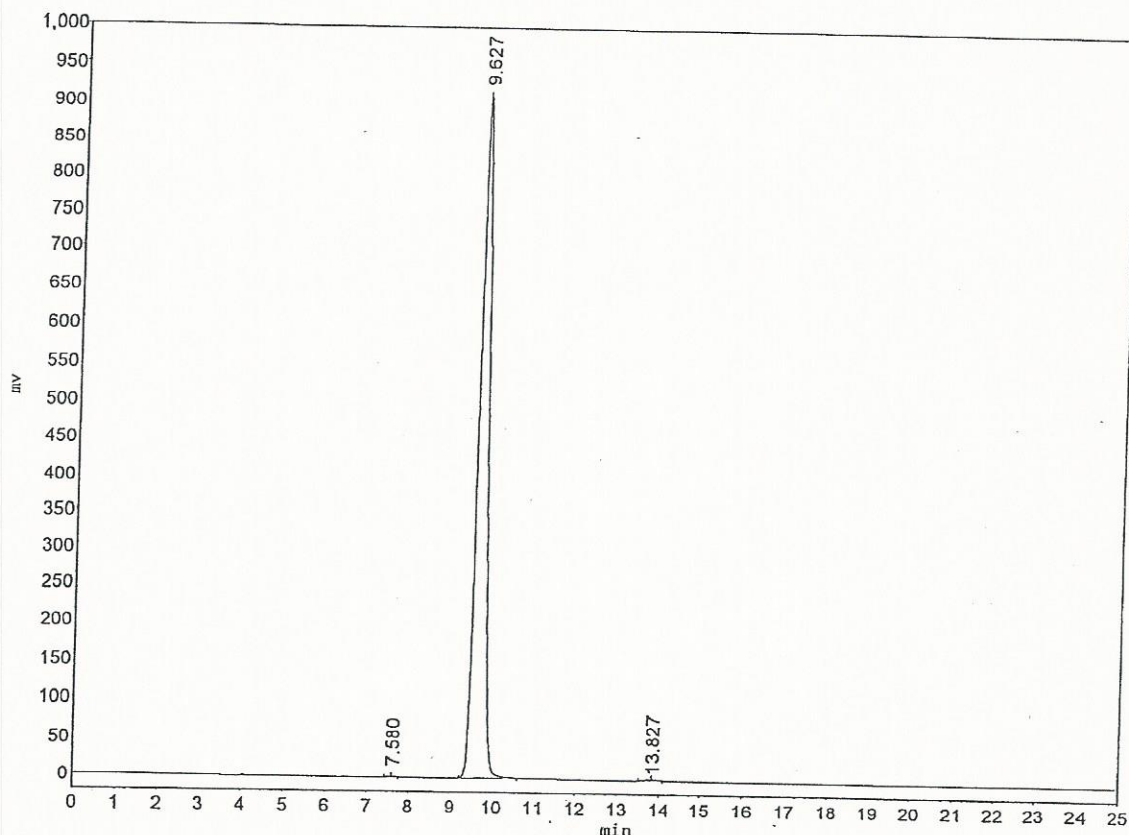
e-mail: chemical@indofinechemical.com



HPLC ANALYSIS

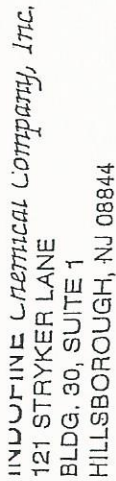
Mobile phase : MeOH - (0.03% H₃PO₄) Water 75:25
Flow rate: 0.8 ml/min
Wavelength: 330nm
Temperature: 25°C

Catalog No.: 06-022N
Product Name: Nobiletin
Lot No.: 1510680

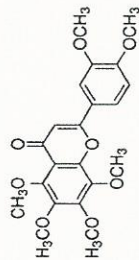


Peak Table

Peak#	RT	Height	Area	%Area
1	7.580	445.485	4679.900	0.0322
2	9.627	910353.188	14503299.000	99.7801
3	13.827	1614.329	27289.400	0.1877
		912413.001	14535268.300	100.0000



Catalog No.: 06-022N
Product Name: Nobilixin
Lot No.: 1510680

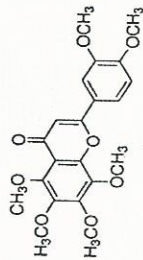


¹H NMR spectrum (CDCl₃) of compound 10a. The x-axis represents chemical shift in ppm, ranging from 0 to 11. The spectrum shows several peaks with corresponding integrations:

- Peak at ~7.5 ppm: Integration 1.0067, 1.0004, 1.0058, 1.0000.
- Peak at ~4.0 ppm: Integration 2.9640, 2.9935, 6.0991, 5.9311.
- Peak at ~3.9 ppm: Integration 1.964.
- Reference peak at 0 ppm.



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HILLSBOROUGH, NJ 08844



Catalog No.: 06-022N
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Lot No.: 1510680

7.590
7.584
7.569
7.563

7.421
7.416

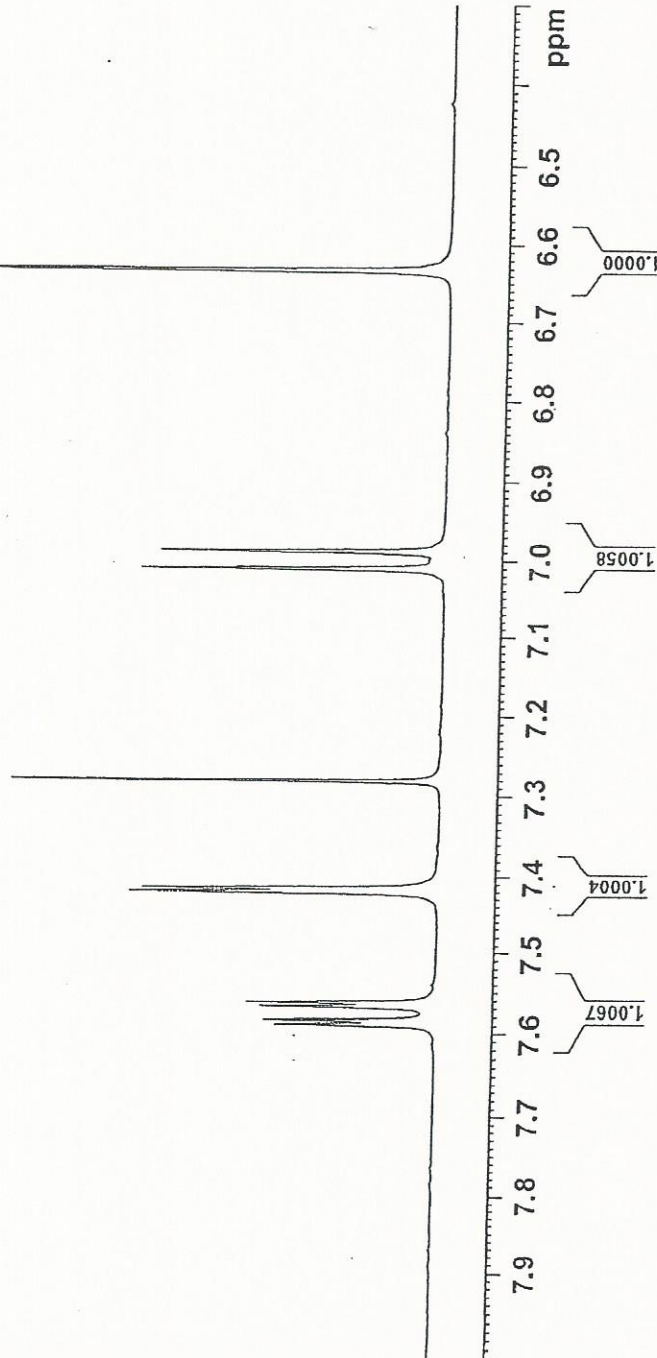
7.281

7.011
6.989

6.633

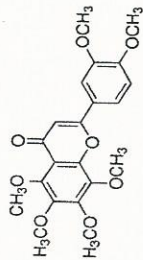


F2 - Acquisition Parameters
Date_ 20100525
Time_ 3:28
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS
DS 2
SWH 8223.685 Hz
FIDRES 0.125483 Hz
AQ 3.9846387 sec
RG 327.500
DN 62.800 usec
DE 8.100 usec
TE 297.3 K
D1 1.00000000 sec
TDO
===== CHANNEL f1 =====
NUC1 1H
P1 12.80 usec
PL1 15.0489998 W
SFO1 400.162013 MHz
F2 - Processing Parameters
SI 65536
SF 400.1600002 MHz
WDW EM
SS 0
LB 0.30 Hz
GB 0
PC 1.00





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Catalog No.: 06-022N
Product Name: Nobiletin
Lot No.: 1510680

4.111
4.033
3.983
3.969
3.959



Current Data Parameters
NAME JT-Ackin-Nobiletin-W1-CDCl3-20150928
EXPNO 20
PROCNO 1

F2 - Acquisition Parameters
Date_ 20150929
Time 14:16
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 2
DS 2
SWH 8223.685 Hz
FIDRES 0.125483 Hz
AQ 3.9846387 sec
RG 683.80
DE 129.89
TE 300.2 K
D1 1.00000000 sec
TDO 1

===== CHANNEL f1 =====
NUC1 13C
P1 12.00 usec
PLM1 15.8489998 W
SFO1 400.1632013 MHz
F2 - Processing Parameters
SI 32768
SF 400.1600002 MHz
WDW EM
SSB 0
LA 0
GB 0
PC 1.00

