



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: 021298

Product Name: **7,4'-DIMETHOXY-5-HYDROXYISOFLAVONE**
(Genistein-4,7'-dimethyl ether)

CAS Number: [34086-51-6]

Lot Number: 0303043

Chemical Formula: C₁₇H₁₄O₅

Molecular Weight: 298.29

Melting Point: 138-143°C

Appearance: Cream powder

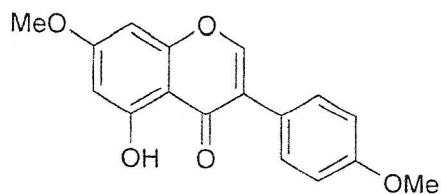
TLC: Hexane:Ethyl acetate (7:3)

Solubility: Soluble in chloroform

NMR Spectrum: Enclosed (conforms to the structure)

Storage: Store in a cool, dry place

Purity(HPLC): 98.22%





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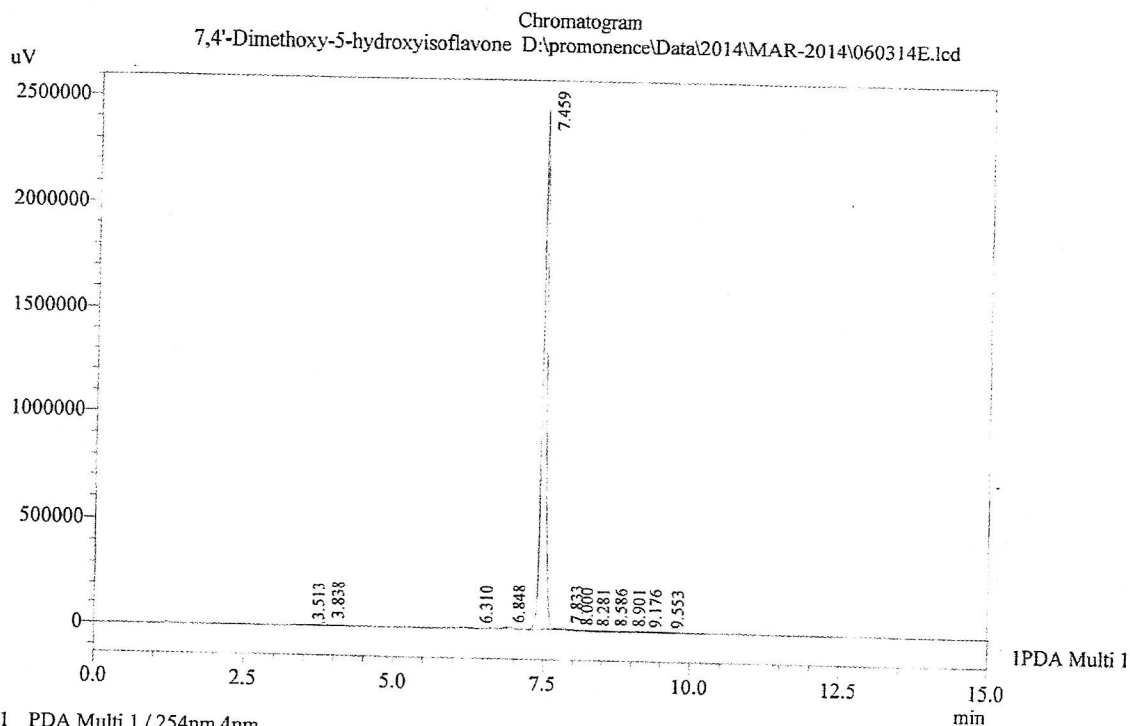
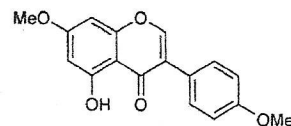
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HPLC ANALYSIS

Acquired by : Sanjeev
Sample Name : 7,4'-Dimethoxy-5-hydroxyisoflavone
Sample ID : Lot No:0303043
Injection Volume : 20 uL
Data Filename : 060314E.lcd
Method Filename : Biosyn-II.lcm

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(Genistein-4,7'-dimethyl ether)
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Column : Inertsil ODS-3V, (150mm x4.6mm 5.0μ)
Flow : 2.000 mL/min.
Mobile Phase : A(0.1% TFA in water) B(Acetonitrile)
0.01 85 15
6.0 5 95
8.0 5 95
12.0 85 15
15.0 85 15
Diluent : Methanol



PDA Ch1 254nm 4nm

PeakTable

Peak#	Name	Ret. Time	Area	Area %	Relative Retention Time
1	RT:3.513	3.513	20715	0.16	0.47
2	RT:3.838	3.838	73337	0.57	0.51
3	RT:6.310	6.310	9014	0.07	0.85
4	RT:6.848	6.848	15338	0.12	0.92
5	7,4'-Dimethoxy-5-OH isofla	7.459	12658798	98.22	1.00
6	RT:7.833	7.833	60061	0.47	1.05
7	RT:8.000	8.000	7046	0.05	1.07
8	RT:8.281	8.281	5552	0.04	1.11
9	RT:8.586	8.586	11323	0.09	1.15
10	RT:8.901	8.901	9960	0.08	1.19
11	RT:9.176	9.176	13690	0.11	1.23
12	RT:9.553	9.553	2962	0.02	1.28
Total			12887795	100.00	



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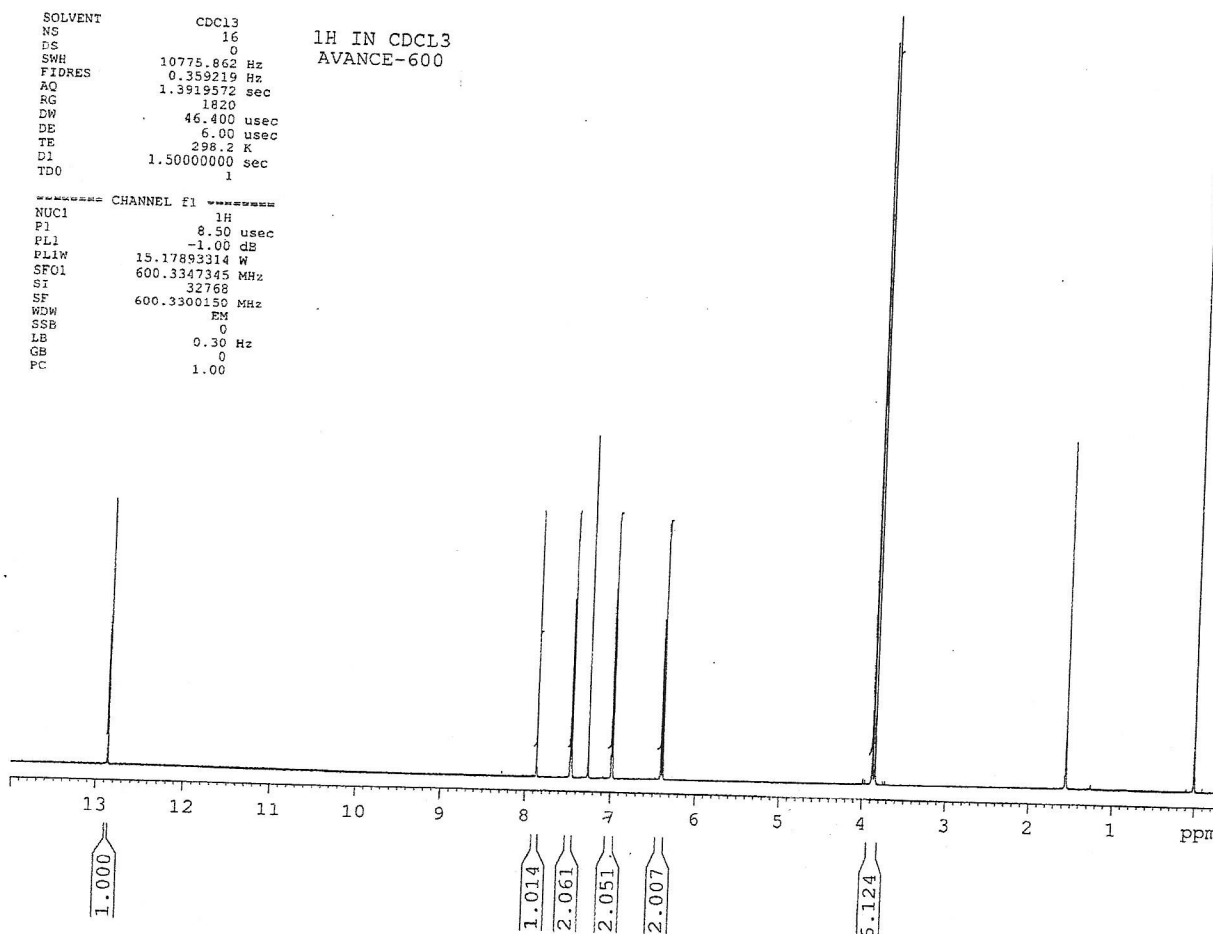
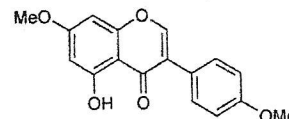
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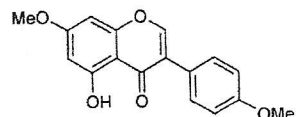
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SOLVENT CDCl₃
NS 16
DS 0
SWH 10775.862 Hz
FIDRES 0.359219 Hz
AQ 1.3919572 sec
RG 1820
DW 46.400 usec
DE 6.00 usec
TE 298.2 K
D1 1.50000000 sec
TD0 1

1H IN CDCL₃
AVANCE-600

===== CHANNEL f1 =====
NUC1 1H
P1 8.50 usec
PL1 -1.00 dB
PL1W 15.17893314 W
SFO1 600.3347345 MHz
SI 32768
SF 600.3300150 MHz
WDW EM
SSE 0
LB 0.30 Hz
GB 0
PC 1.00

