



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

Cat No.: G-002

Product: **GOSSYPIN**

CAS Number: [652-78-8]

Lot Number: 000452

Chemical Formula: $C_{21}H_{20}O_{13}$

Molecular Weight: 480.38

Melting Point: 207-217°C

Appearance: Greenish yellow powder

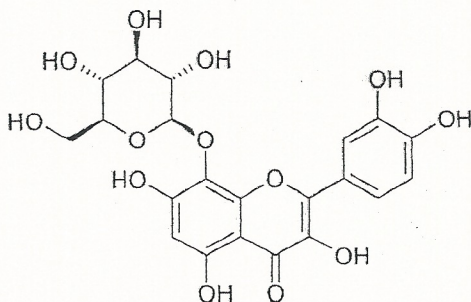
TLC: n-Butanol:Acetic acid (1:1)

Solubility: Soluble in DMSO

NMR Spectrum: Enclosed

Storage: Cool Dry Place

Purity(HPLC): 97.55%





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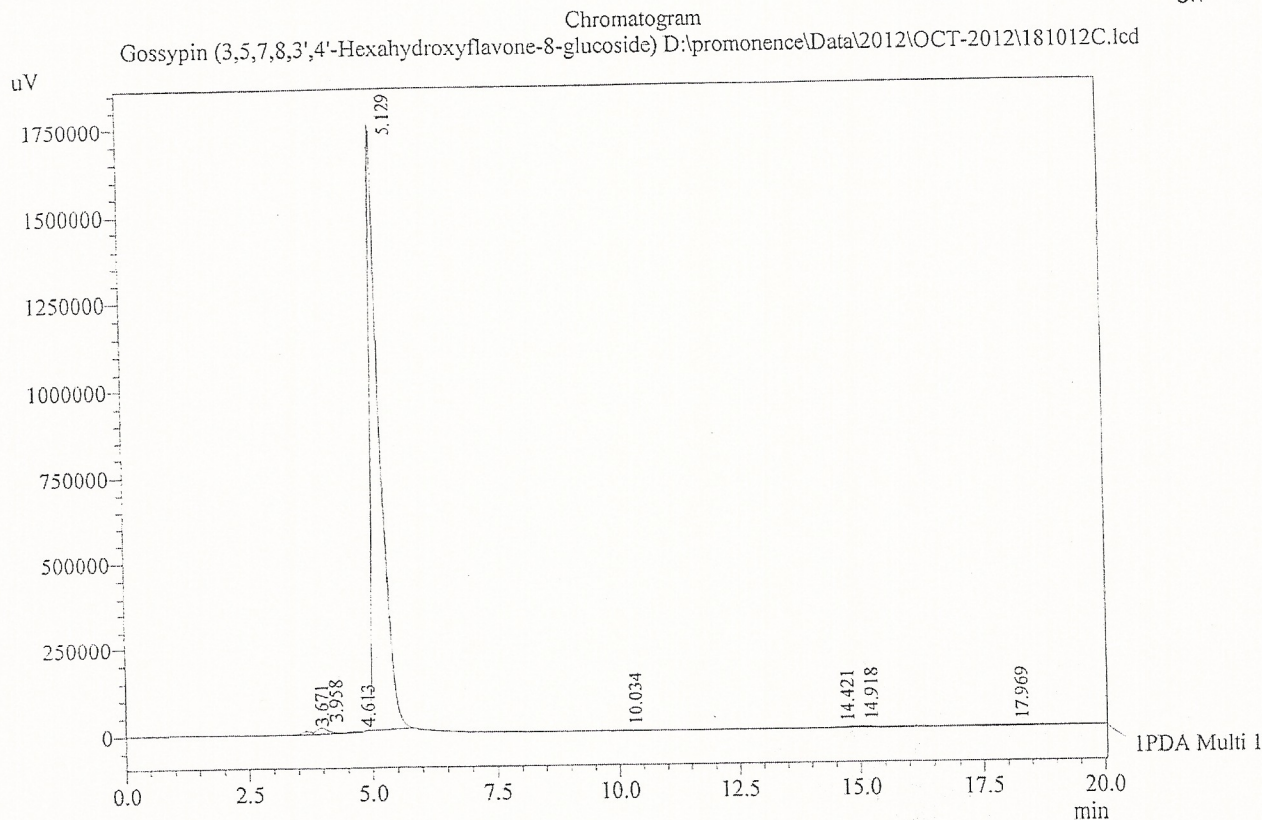
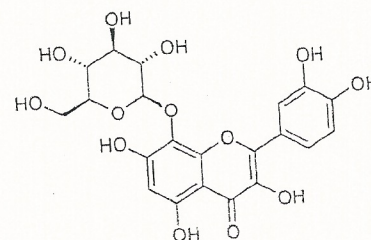
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HPLC ANALYSIS

Acquired by : Sanjeev
 Sample Name : Gossypin (3,5,7,8,3',4'-Hexahydroxyflavone-8-glucoside)
 Sample ID : Lot NO-000452
 Injection Volume : 20 uL
 Data Filename : 181012C.lcd
 Method Filename : Linear Isocratic.M.lcm

Catalog no.: G-002
 Product name: Gossypin
 Lot No.: 000452

Column : LUNA C-18(2), (250mm x4.6mm 5.0µ)
 Flow : 0.500 mL/min.
 Mobile Phase : A(50% of 0.05% TFA in water) B(50% of Acetonitrile)

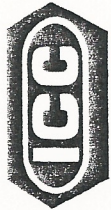


1 PDA Multi 1 / 230nm 4nm

PeakTable

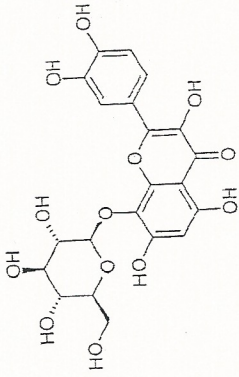
PDA Ch1 230nm 4nm

Peak#	Name	Ret. Time	Area	Area %	Relative Retention Time
1	RT:3.671	3.671	104633	0.45	0.72
2	RT:3.958	3.958	281776	1.20	0.77
3	RT:4.613	4.613	27206	0.12	0.90
4	Gossypin	5.129	22930262	97.55	1.00
5	RT:10.034	10.034	16483	0.07	1.96
6	RT:14.165	14.421	20139	0.09	2.81
7	RT:14.918	14.918	120645	0.51	2.91
8	RT:17.969	17.969	5162	0.02	3.50
Total			23506308	100.00	



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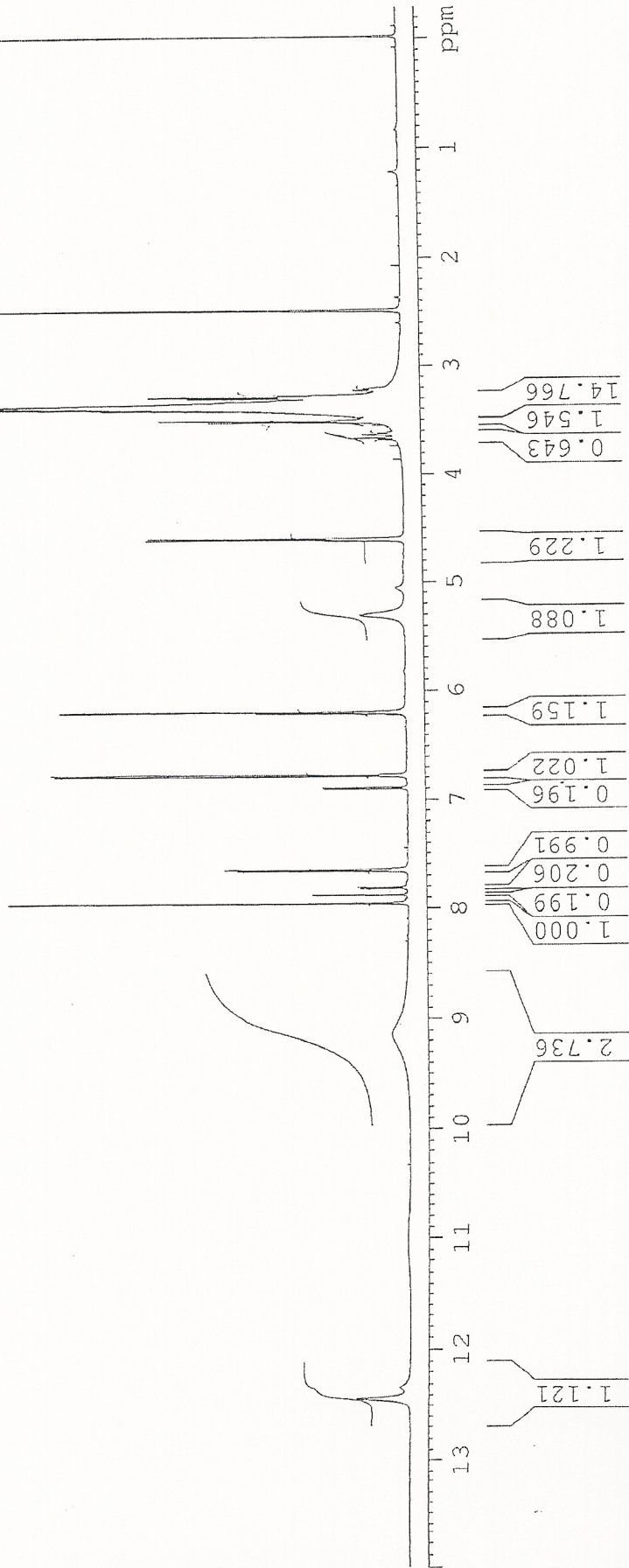
Catalog no.: G-002
 Product name: Gossypin
 Lot No.: 000452



ICC-OCT-08
 1H IN DMSO
 AVANCE-600

SOLVENT DMSO
 NS 8
 DS 0
 SRH 10080.646 Hz
 FIDRES 0.336044 Hz
 AQ 1.4879508 sec
 RG 20.2
 DW 49.600 usec
 DE 6.00 usec
 TE 298.2 K
 D1 1.50000000 sec
 TD0 1

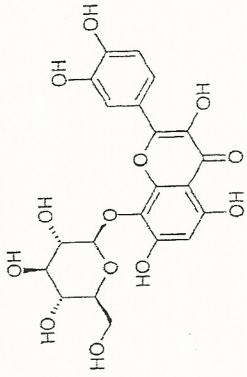
==== CHANNEL f1 =====
 NUCL 1H
 P1 7.50 usec
 PL1 2.60 dB
 PL1W 6.62584448 W
 SF01 600.3345285 MHz
 SI 32768
 SF 600.3300115 MHz
 EM
 WDW 0
 SSR 0
 LB 0.30 Hz
 GB 0
 PC 1.00





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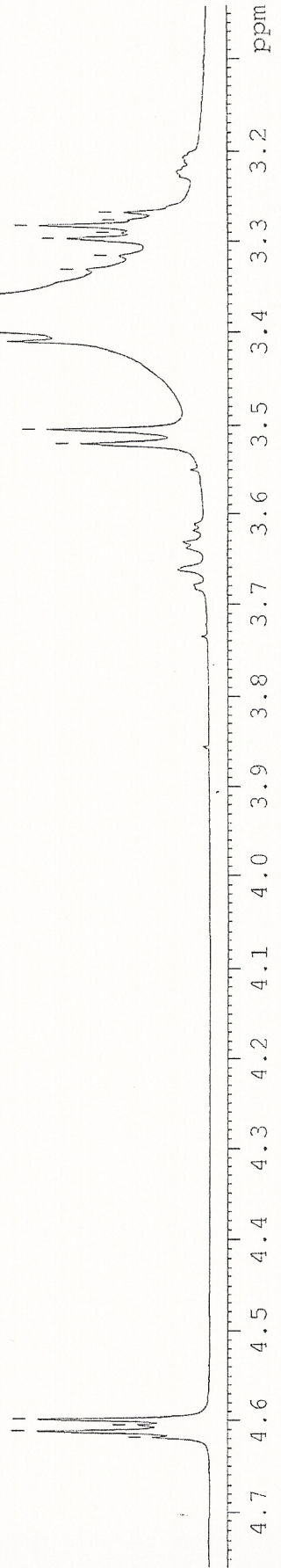
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SOLVENT DMSO
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D1 1.50000000 sec
TD0 1

==== CHANNEL f1 =====
NUC1 1H
P1 7.50 usec
PL1 2.60 dB
PL1W 6.62584448 W
SF01 600.3345285 MHz
SI 3276°
SF 600.3300115 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

4.619
4.612
4.606
4.599

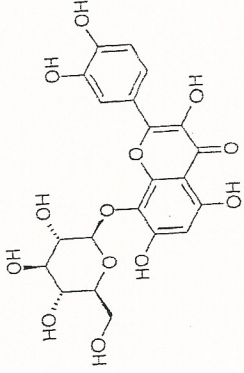
3.521
3.505
3.410
3.394
3.382
3.378
3.372
3.363
3.332
3.316
3.298
3.291
3.283
3.276
3.268





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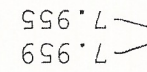
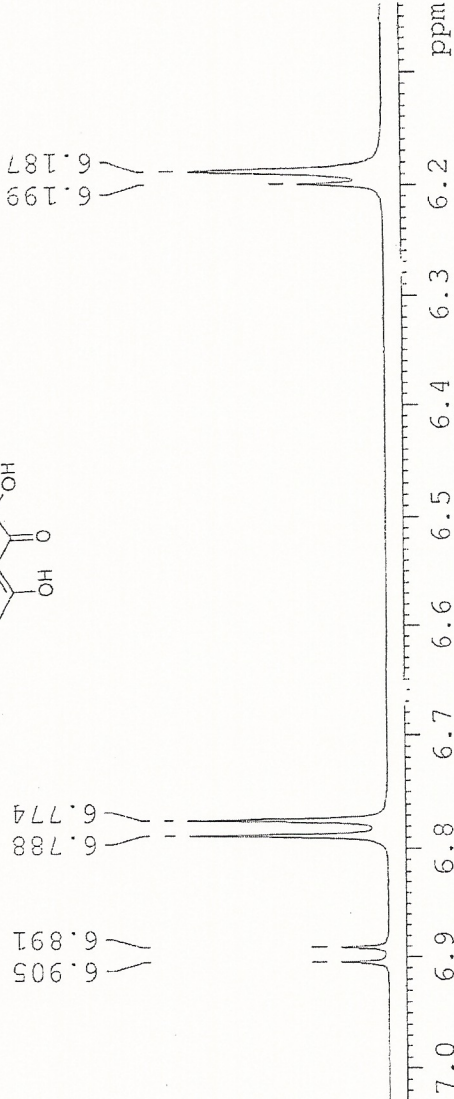
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 1H IN DMSO
 AVANCE-600

==== CHANNEL f1 =====
 NUC1 1H
 P1 7.50 usec
 PL1 2.60 dB
 PL1W 6.62584448 W
 SF01 600.3345285 MHz
 SI 32768
 SF 600.3300115 MHz
 WDW EM
 SSR 0
 LB 0.30 Hz
 GB 0
 PC 1.00



8.00 7.95 7.90 7.85 7.80 7.75 7.70 7.65 ppm