



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: G-002

Product Name: **GOSSYPIN**

CAS Number: [652-78-8]

Lot Number: 1406466

Chemical Formula: C₂₁H₂₀O₁₃

Molecular Weight: 480.38

Melting Point: 217°C (dec)

Appearance: Dark yellow powder

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

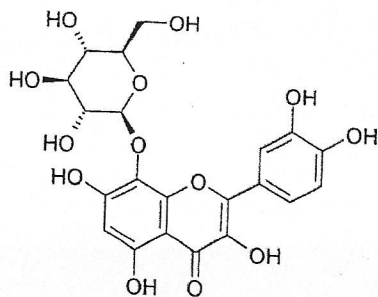
Solubility: Soluble in DMSO

Moisture(KF): 0.8%

NMR Spectrum: Enclosed (conforms to the structure)

Storage: Store in a cool, dry place

Purity(HPLC): 99.83%





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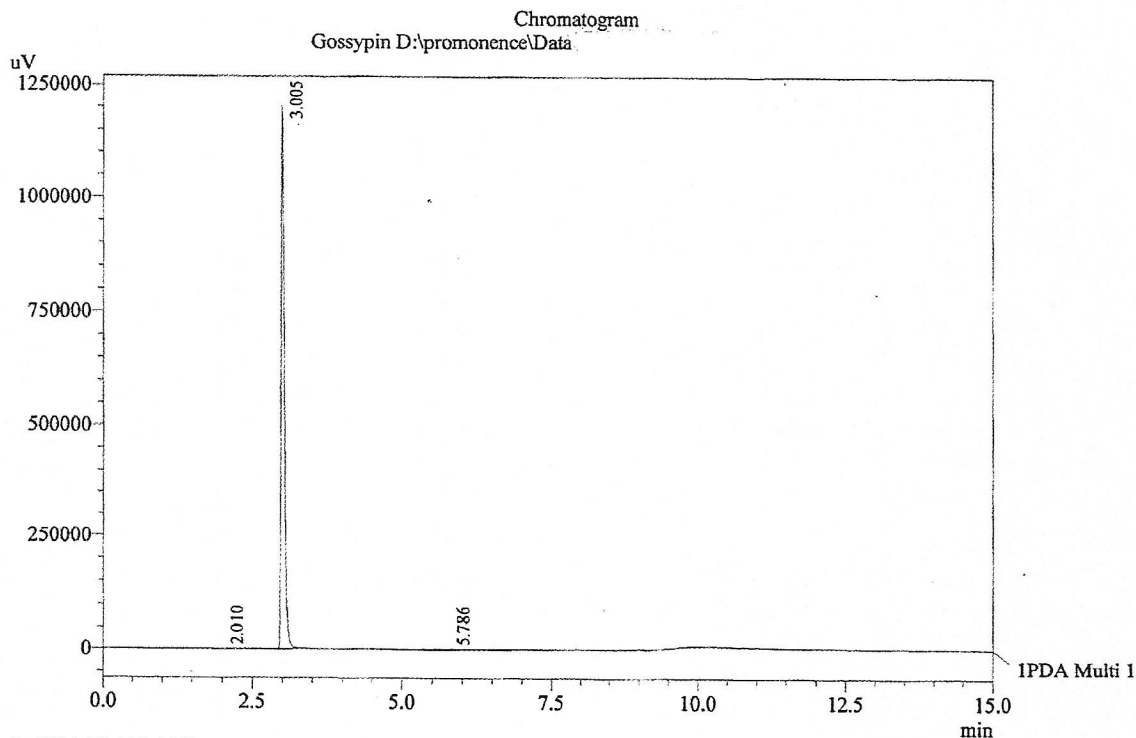
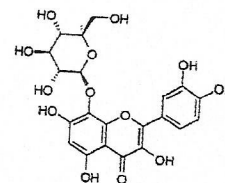
e-mail: chemical@indofinechemical.com

HPLC ANALYSIS

Acquired by : Sanjeev
Sample Name : Gossypin
Sample ID : 1.15 Kg Lot
Injection Volume : 20 uL
Data Filename : 310514H.lcd
Method Filename : Linear Isocratic.M.lcm

Catalog No.: G-002
Product Name: Gossypin
Lot No.: 1406466

Column : LUNA C-18(2), (250mm x4.6mm 5.0µ)
Flow : 1.000 mL/min.
Mobile Phase : 100% Acetonitrile
Diluent : 10mg/25mL Methanol



PeakTable

PDA Ch1 272nm 4nm

Peak#	Name	Ret. Time	Area	Area %	Relative Retention Time
1	RT:2.010	2.010	928	0.02	0.67
2	Gossypin	3.005	4440192	99.83	1.00
3	RT:5.786	5.786	6646	0.15	1.93
Total			4447766	100.00	



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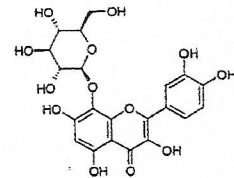
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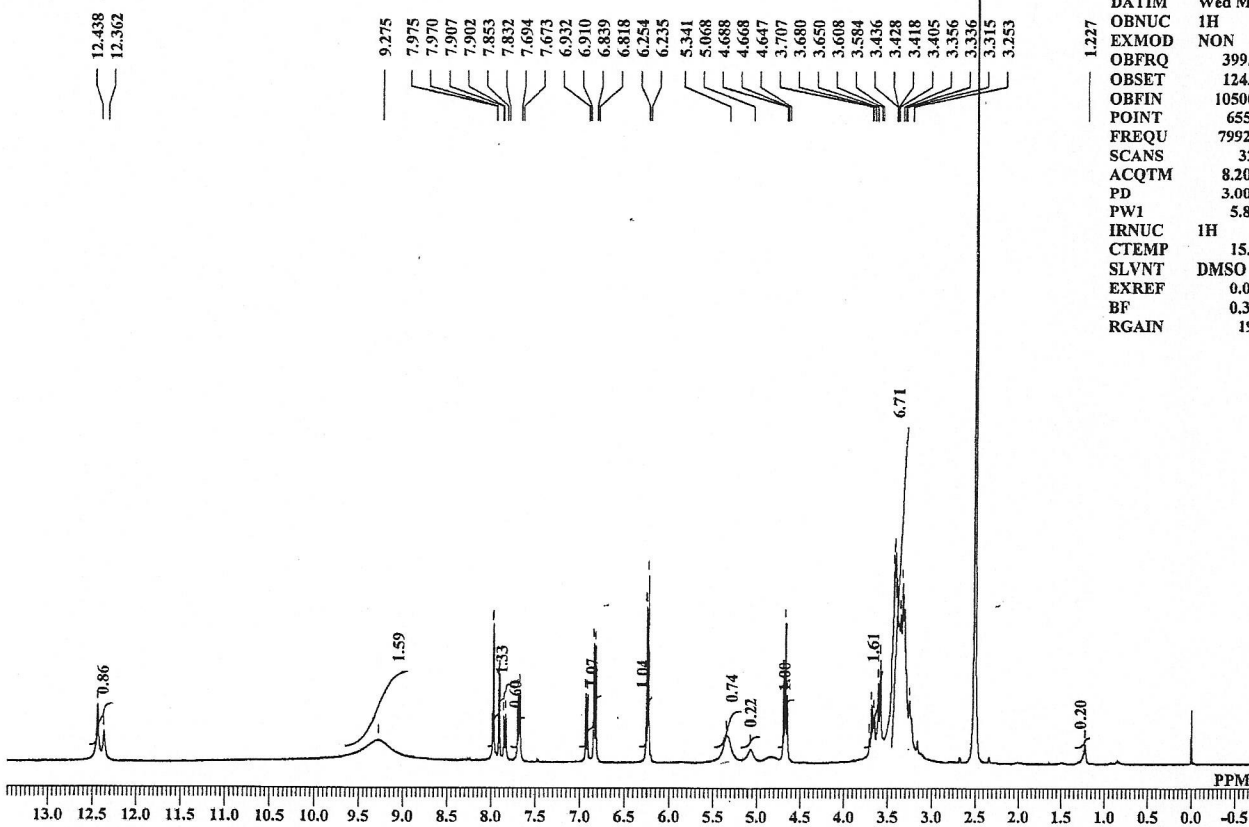
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Catalog No.: G-002
Product Name: Gossypin
Lot No.: 1406466



GOSSYPIN 1.15 Kgs lot 1H NMR DMSO-d6
Analysed By : TJR



DFILE	GOSSYPIN 1.15 Kgs lot 1H.als
COMNT	GOSSYPIN 1.15 Kgs lot 1H NM
DATIM	Wed May 28 13:39:17 2014
OBNUC	1H
EXMOD	NON
OBFRQ	399.65 MHz
OBSET	124.00 KHz
OBFIN	10500.00 Hz
POINT	65536
FREQU	7992.01 Hz
SCANS	32
ACQTM	8.2002 sec
PD	3.0000 sec
PW1	5.80 usec
IRNUC	1H
CTEMP	15.4 c
SLVNT	DMSO
EXREF	0.00 ppm
BF	0.30 Hz
RGAIN	19



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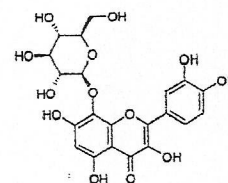
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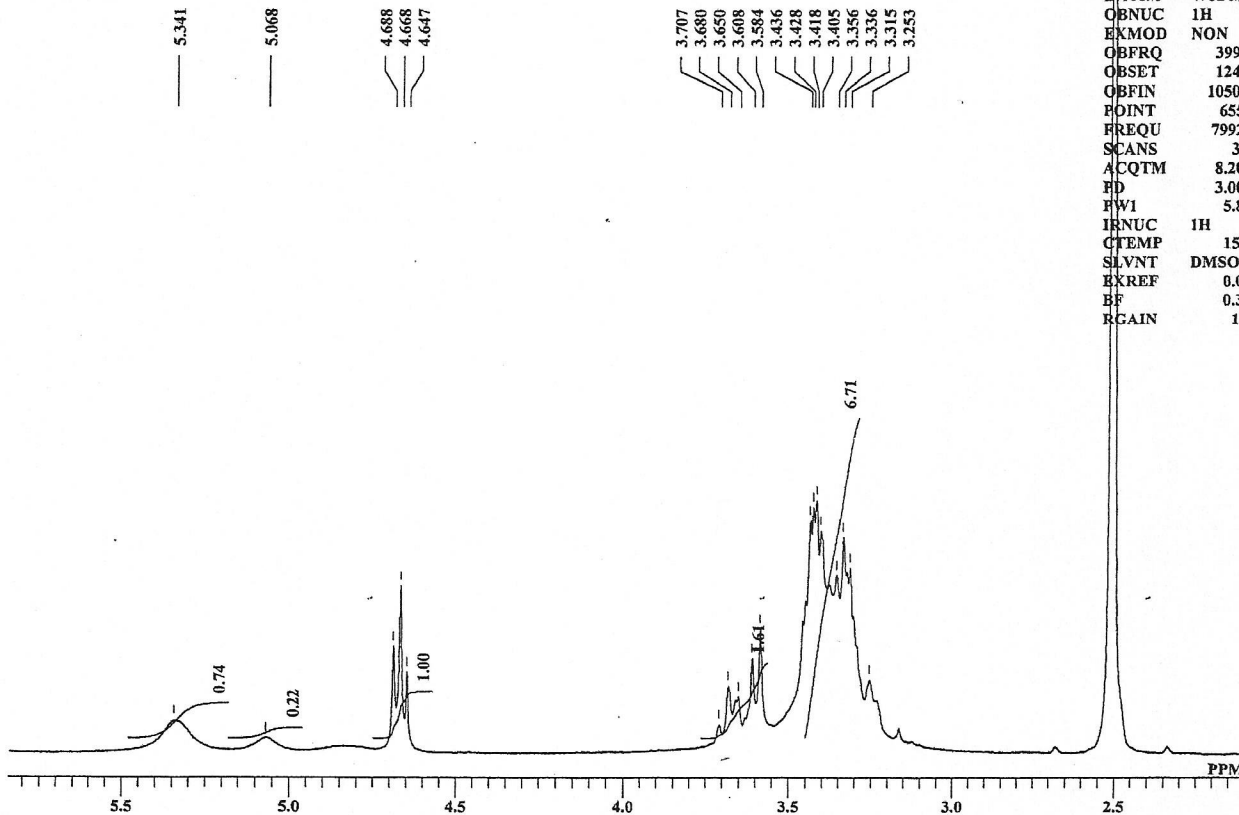
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Catalog No.: G-002
Product Name: Gossypin
Lot No.: 1406466



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Analysed By: TJR

DFILE	GOSSYPIN 1.15 Kgs lot 1H.als
COMNT	GOSSYPIN 1.15 Kgs lot 1H NM
DATIM	Wed May 28 13:39:17 2014
OBNUC	1H
EKMOD	NON
OBFRQ	399.65 MHz
OBSET	124.00 KHz
OBFIN	10500.00 Hz
POINT	65536
FREQU	7992.01 Hz
SCANS	32
ACQTM	8.2002 sec
FD	3.0000 sec
FW1	5.80 usec
IRNUC	1H
CTEMP	15.4 c
SLVNT	DMSO
EKREF	0.00 ppm
BF	0.30 Hz
RGAIN	19





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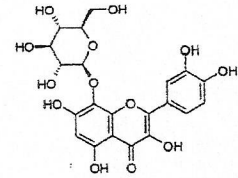
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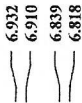
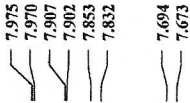
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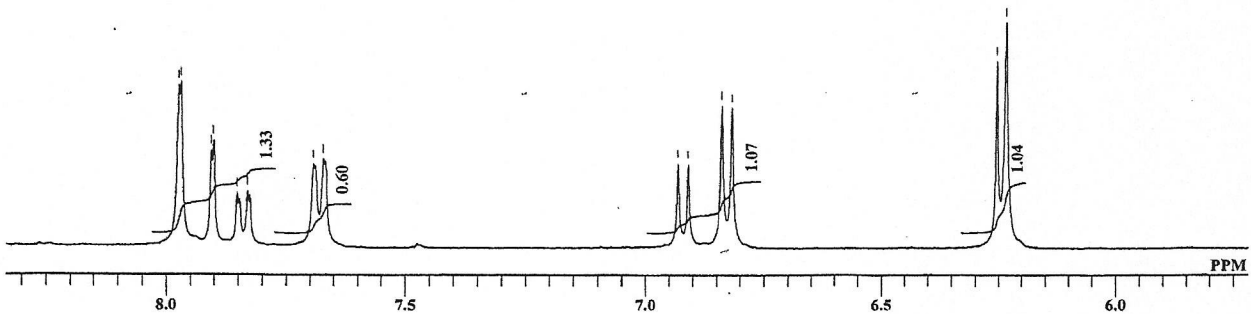
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Product Name: Gossypin
Lot No.: 1406466



GOSSYPIN 1.15 Kgs lot 1H NMR DMSO-d6
Analysed By : TJR



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COMNT GOSSYPIN 1.15 Kgs lot 1H NM
DATIM Wed May 28 13:39:17 2014
OBNUC 1H
EXMOD NON
OBFRQ 399.65 MHz
OBSET 124.00 KHz
OBFIN 10500.00 Hz
POINT 65536
FREQU 7992.01 Hz
SCANS 32
ACQTM 8.2002 sec
PD 3.0000 sec
PW1 5.80 nsec
IRNUC 1H
CTEMP 15.4 c
SLVNT DMSO
EXREF 0.00 ppm
BF 0.30 Hz
RGAIN 19



ICC INDOFINE Chemical Company, Inc.

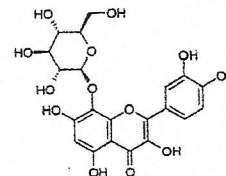
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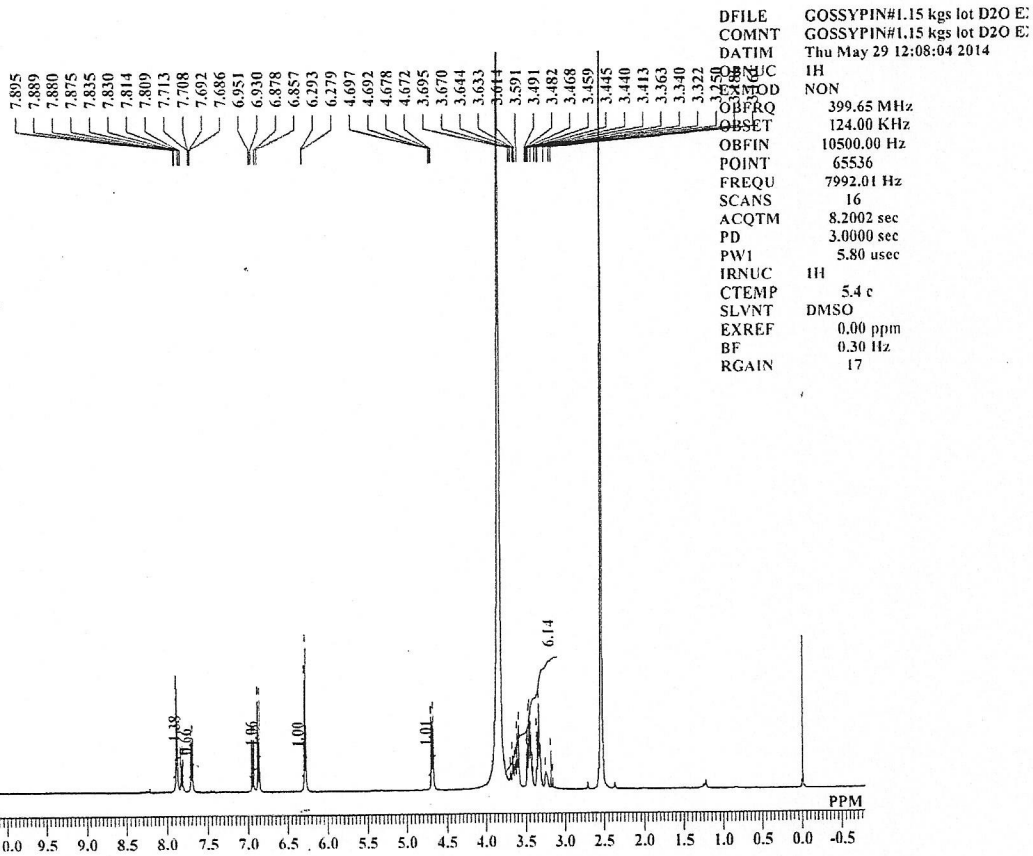
e-mail: chemical@indofinechemical.com

Catalog No.: G-002
 Product Name: Gossypin
 Lot No.: 1406466



GOSSYPIN#1.15 kgs lot D2O EXC DMSO-d6

Analyzed By : MAK





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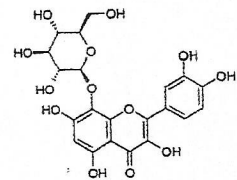
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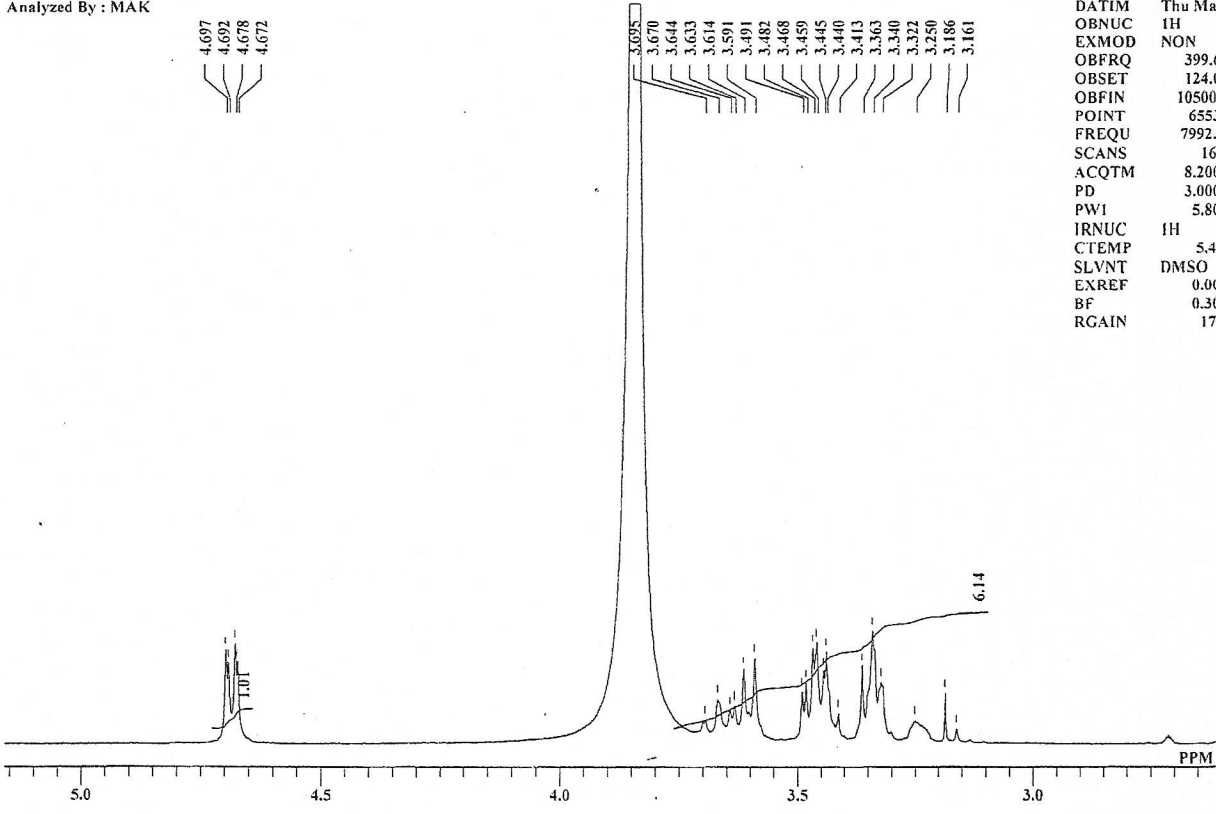
e-mail: chemical@indofinechemical.com

Catalog No.: G-002
Product Name: Gossypin
Lot No.: 1406466



GOSSYPIN#1.15 kgs lot D2O EXC. DMSO-d6

Analyzed By : MAK



DFILE	GOSSYPIN#1.15 kgs lot D2O E:
COMNT	GOSSYPIN#1.15 kgs lot D2O E:
DATIM	Thu May 29 12:08:04 2014
OBNUC	1H
EXMOD	NON
OBFRQ	399.65 MHz
OBSET	124.00 KHz
OBFIN	10500.00 Hz
POINT	65536
FREQU	7992.01 Hz
SCANS	16
ACQTM	8.2002 sec
PD	3.0000 sec
PW1	5.80 usec
IRNUC	1H
CTEMP	5.4 c
SLVNT	DMSO
EXREF	0.00 ppm
BF	0.30 Hz
RGAIN	17

ICC INDOFINE Chemical Company, Inc.

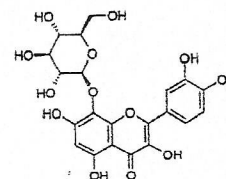
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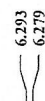
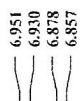
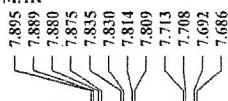
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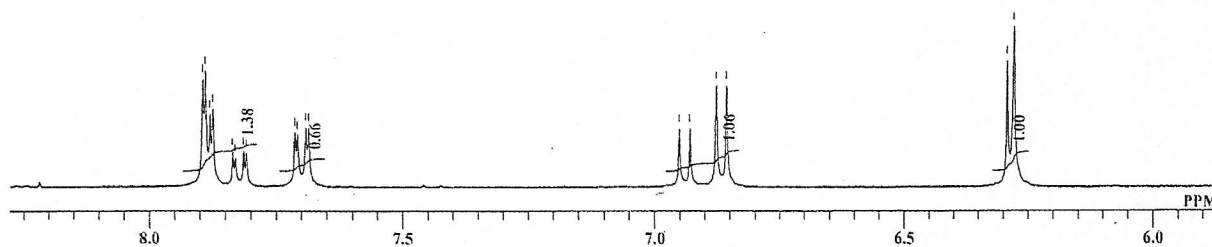


GOSSYPIN#1.15 kgs lot D2O EXC DMSO-d6

Analyzed By: MAK



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DATIM	Thu May 29 12:08:04 2014
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EXMOD	NON
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OBFIN	10500.00 Hz
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FREQU	7992.01 Hz
SCANS	16
ACQTM	8.2002 sec
PD	3.0000 sec
PW1	5.80 usec
IRNUC	1H
CTEMP	5.4 c
SLVNT	DMSO
EXREF	0.00 ppm
BF	0.30 Hz
RGAIN	17





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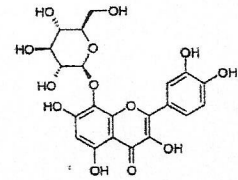
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Lot No.: 1406466



Sample Information
Sample Name : GOSSYPIN
Batch No : -
Data File : GOSSYPIN.tcd
Method File : Test1(APCI).tem
Acquired by : KKiran

