



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: 22-412

Product Name: **HIBIFOLIN**
(Gossypetin 8-glucuronide; 3,3',4',5,7,8-Hexahydroxyflavone 8-glucuronide)

CAS Number: [55366-56-8]

Lot Number: 1503569

Chemical Formula: 494.37

Molecular Weight: C₂₁H₁₈O₁₄

Appearance: Yellow powder

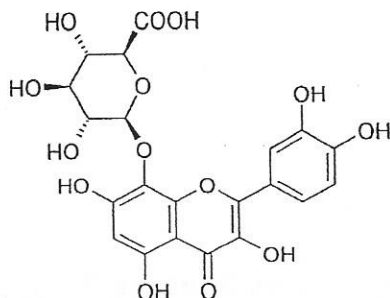
Solubility: Soluble in DMSO

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

NMR Spectrum: Enclosed (conforms to the structure)

Storage: Store in a cool, dry place

Purity(HPLC): 94.18%





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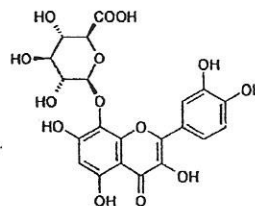
e-mail: chemical@indofinechemical.com

HPLC ANALYSIS

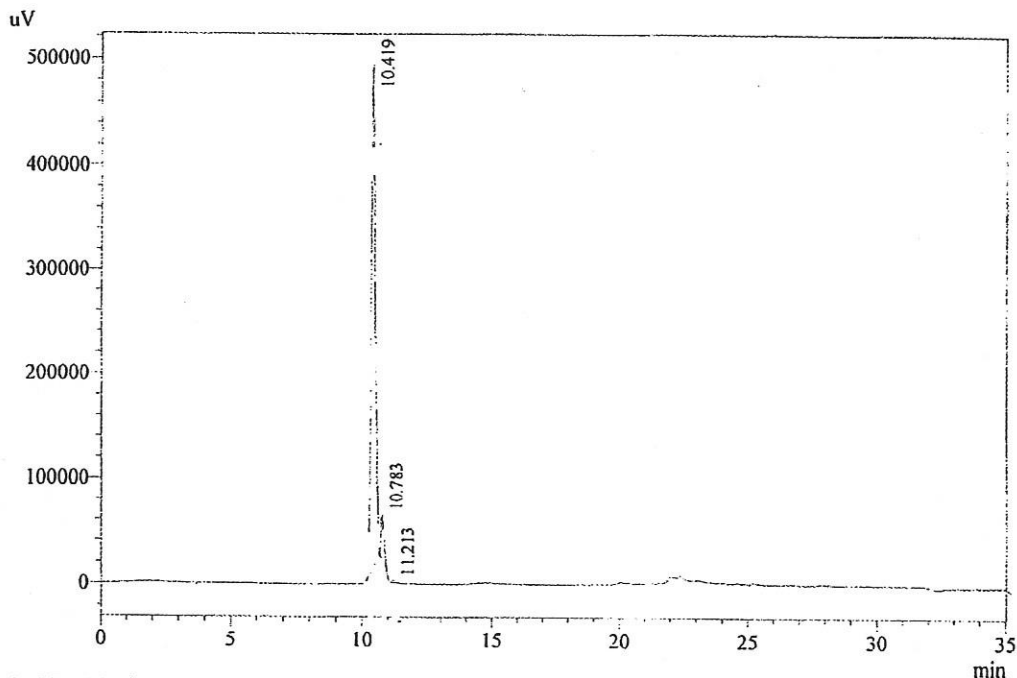
Acquired by : Admin
Sample Name : Hibifolin
Sample ID : 20 gm Lot
Injection Volume : 20 uL
Data Filename : 140315J.lcd
Method Filename : GSP-I.lcm

Catalog No.: 22-412
Product Name: Hibifolin
Lot No.: 1503569

Column : Inertsil-ODS-3V
Flow : 1.000 mL/min.
Mobile Phase : A(0.05% TFA in Water) B(Acetonitrile)
0.01 90 10
1.0 90 10
7.0 68 32
14.0 68 32
20.0 10 90
28.0 10 90
29.0 90 10
35.0 90 10
Diluent : Mobilephase



Chromatogram



IPDA Multi I

I PDA Multi 1 / 277nm 4nm

PeakTable

PDA Ch1 277nm 4nm

Peak#	Name	Ret. Time	Area	Area %	Relative Retention Time
1	RT:10.419	10.419	5359720	94.18	1.00
2	RT:10.783	10.783	313317	5.51	1.03
3	RT:11.209	11.213	17710	0.31	1.08
Total			5690748	100.00	



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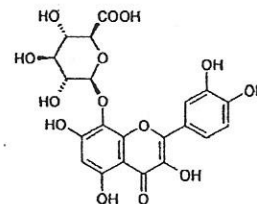
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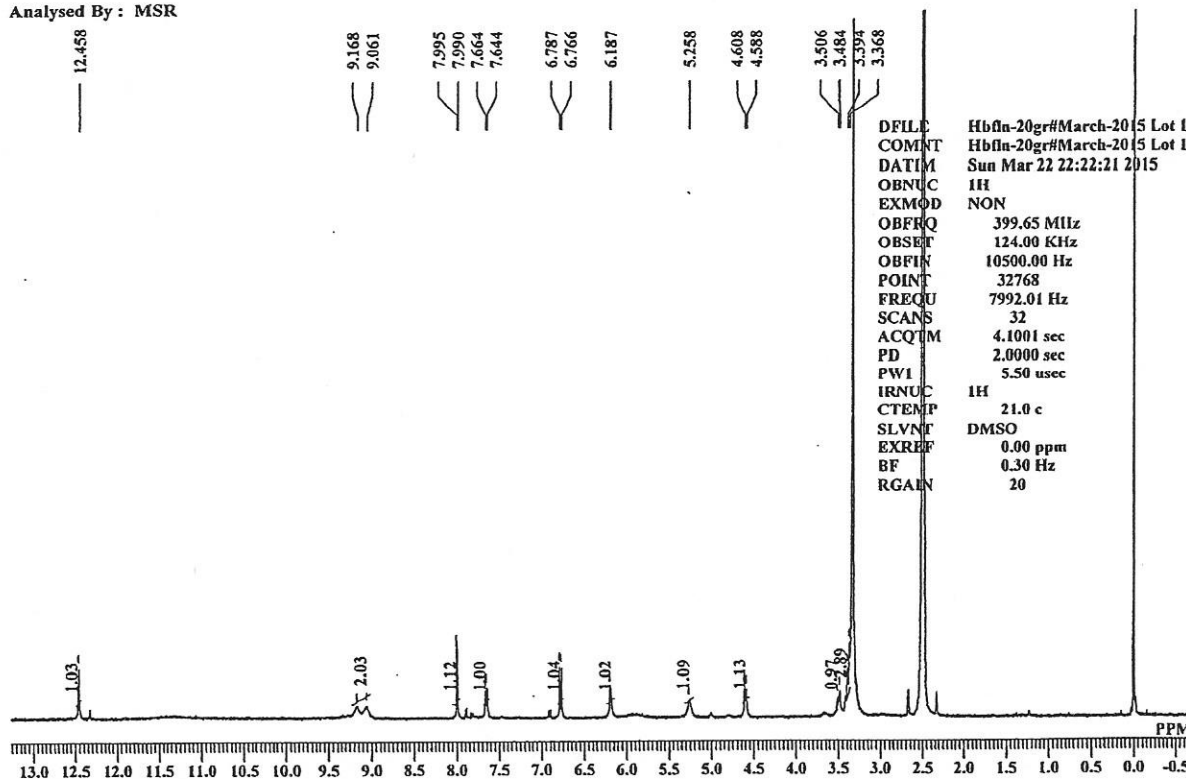
e-mail: chemical@indofinechemical.com

Catalog No.: 22-412
Product Name: Hibifolin
Lot No.: 1503569



Lot 1H NMR DMSO-d6

Analysed By: MSR



DFILE Hbfln-20gr#March-2015 Lot 1H.Lals
COMNT Hbfln-20gr#March-2015 Lot 1H NMR DMSO-d6
DATIM Sun Mar 22 22:22:21 2015
IHN
EXMOD NON
OBFREQ 399.65 MHz
OBSEFF 124.00 KHz
OBFIN 10500.00 Hz
POINT 32768
FREQU 7992.01 Hz
SCANS 32
ACQTM 4.1001 sec
PD 2.0000 sec
PWI 5.50 usec
IRNUC IH
CTEMP 21.0 c
SLVNT DMSO
EXREF 0.00 ppm
BF 0.30 Hz
RGAIN 20



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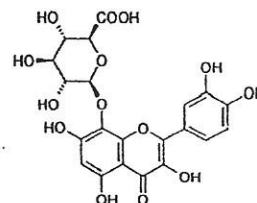
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Lot 1H NMR DMSO-d6

Analysed By : MSR

9.168
9.061

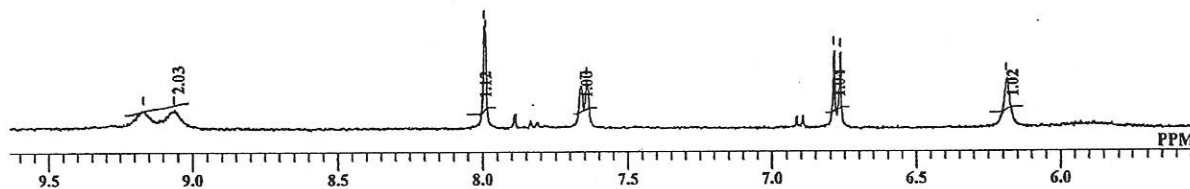
7.995
7.990

7.664
7.644

6.787
6.766

6.187

DFILE Hbfln-20gr#March-2015 Lot 1H.Lals
 COMNT Hbfln-20gr#March-2015 Lot 1H NMR DMSO-d6
 DATIM Sun Mar 22 22:22:21 2015
 OBNUC 1H
 EXMOD NON
 OBFRQ 399.65 MHz
 OBSET 124.00 KHz
 OBFIN 10500.00 Hz
 POINT 32768
 FREQU 7992.01 Hz
 SCANS 32
 ACQTM 4.1001 sec
 PD 2.0000 sec
 PW1 5.50 usec
 IRNUC 1H
 CTEMP 21.0 c
 SLVNT DMSO
 EXREF 0.00 ppm
 BF 0.30 Hz
 RGAIN 20





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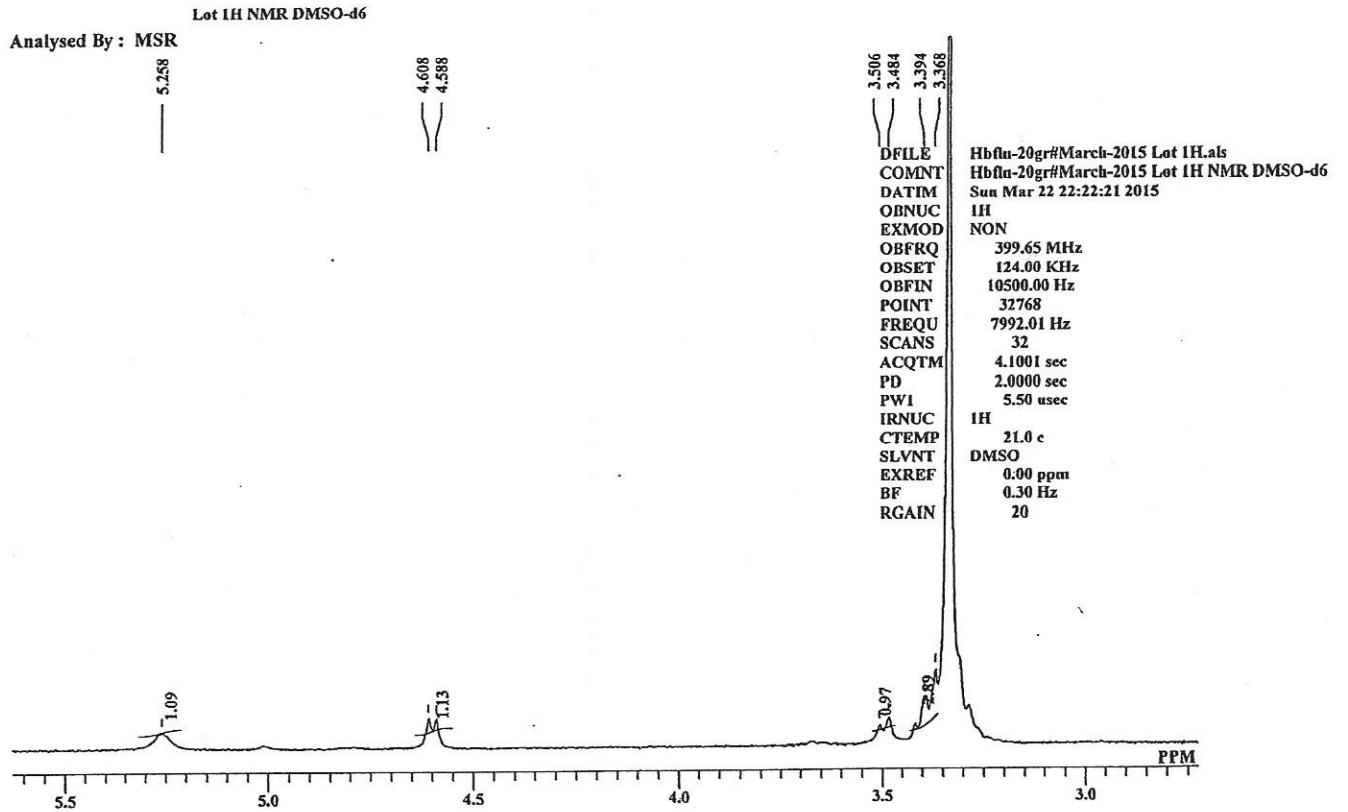
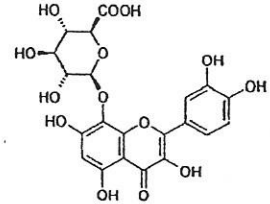
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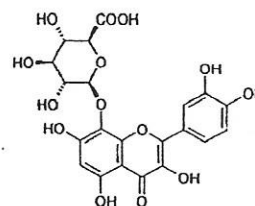
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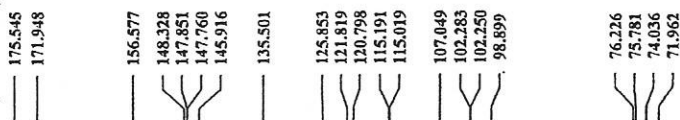
e-mail: chemical@indofinechemical.com

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Lot No.: 1503569

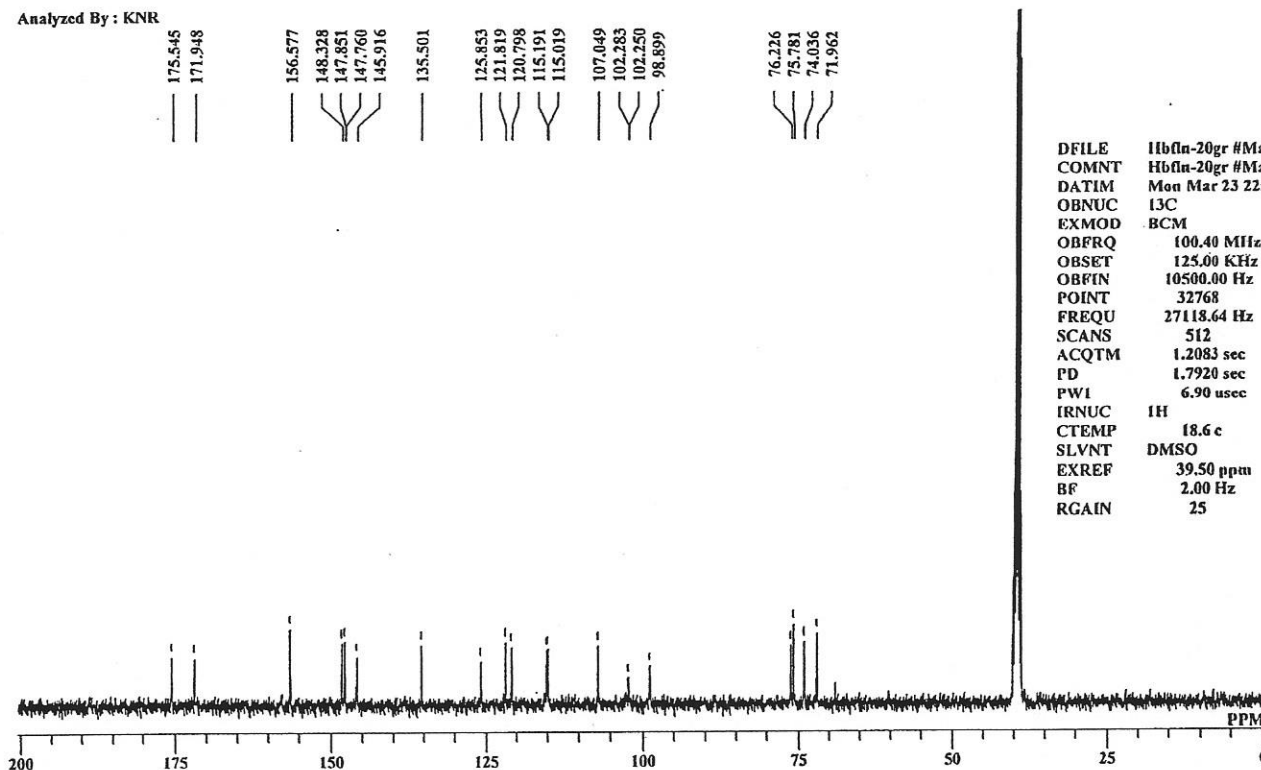


Lot 13C NMR DMSO-d6

Analyzed By: KNR



DFILE Hbfln-20gr #March-2015 Lot 13C
COMNT Hbfln-20gr #March-2015 Lot 13C
DATIM Mon Mar 23 22:26:48 2015
I3C
OBNUC 13C
EXMOD BCM
OBFRQ 100.40 MHz
OBSET 125.00 KHz
OBFIN 10500.00 Hz
POINT 32768
FREQU 27118.64 Hz
SCANS 512
ACQTM 1.2083 sec
PD 1.7920 sec
PWI 6.90 usec
IRNUC 1H
CTEMP 18.6 c
SLVNT DMSO
EXREF 39.50 ppm
BF 2.00 Hz
RGAIN 25





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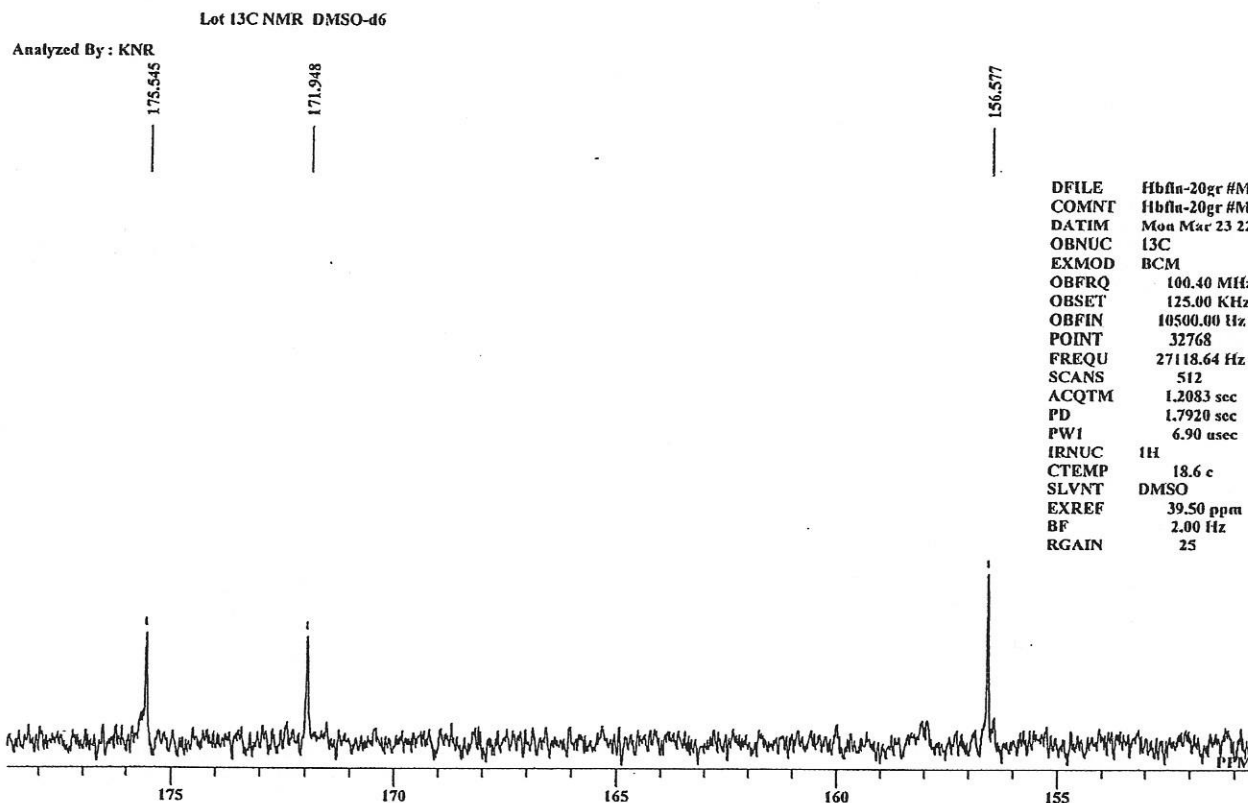
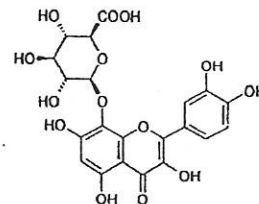
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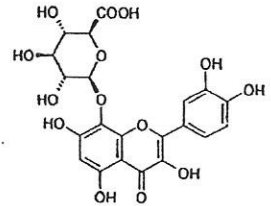
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Lot 13C NMR DMSO-d6

Analyzed By: KNR

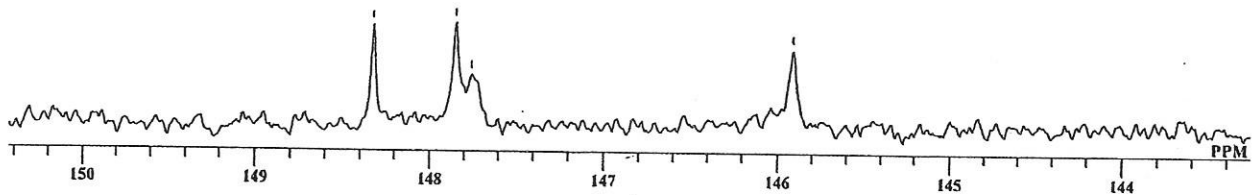
148.328

147.851

147.760

146.216

DFILE	Hbfln-20gr #March-2015 Lot 13C
COMNT	Hbfln-20gr #March-2015 Lot 13C
DATIM	Mon Mar 23 22:26:48 2015
OBNUC	13C
EXMOD	BCM
OBFRQ	100.40 MHz
OBSET	125.00 kHz
OBFIN	10500.00 Hz
POINT	32768
FREQU	27118.64 Hz
SCANS	512
ACQTM	1.2083 sec
PD	1.7920 sec
PWI	6.90 usec
IRNUC	1H
CTEMP	18.6 c
SLVNT	DMSO
EXREF	39.50 ppm
BF	2.00 Hz
RGAIN	25





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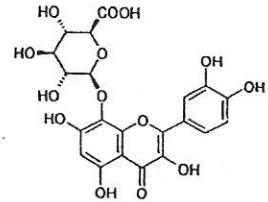
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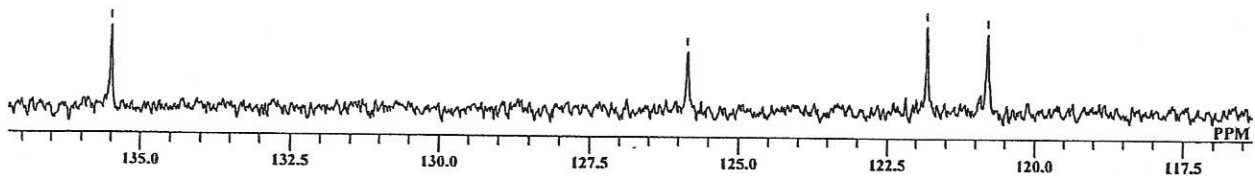
135.501

125.853

121.819

120.798

DFILE	Hbfln-20gr #March-2015 Lot 13C
COMNT	Hbfln-20gr #March-2015 Lot 13C
DATIM	Mon Mar 23 22:26:48 2015
OBNUC	13C
EXMOD	BCM
OBFRQ	100.40 MHz
OBSET	125.00 KHz
OBFIN	10500.00 Hz
POINT	32768
FREQU	27118.64 Hz
SCANS	512
ACQTM	1.2083 sec
PD	1.7920 sec
PW1	6.90 usec
IRNUC	1H
CTEMP	18.6 c
SLVNT	DMSO
EXREF	39.50 ppm
BF	2.00 Hz
RGAIN	25





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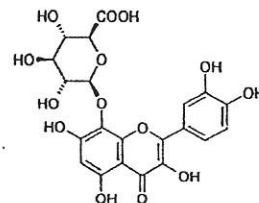
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Sample Information
Sample Name : HBFLN-20gr
Batch No : March 2015 Lot
Data File : HBFLN-20gr.tcd
Method File : Test1(ESI).lcm
Acquired by : KKiran

MS Spectrum Graph

