



INDOFINE Chemical Company, Inc.

121 Stryker Lane, Bldg. 30, Suite 1 • Hillsborough, NJ 08844 • U.S.A.

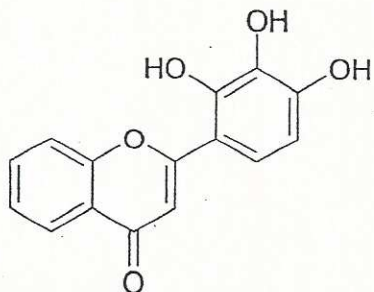
Phone: (908) 359-6778 • FAX: (908) 359-1179

website: www.indofinechemical.com

e-mail: chemical@indofinechemical.com

CERTIFICATE OF ANALYSIS

<u>Catalog Number:</u>	19-923
<u>Product Name:</u>	2',3',4'-TRIHIDROXYFLAVONE
<u>Lot Number:</u>	1309375
<u>Chemical Formula:</u>	C ₁₅ H ₁₀ O ₅
<u>Molecular Weight:</u>	270.25
<u>Melting point:</u>	252-255°C
<u>Appearance:</u>	Pale yellow powder
<u>Solubility:</u>	Soluble in DMSO
<u>TLC:</u>	Hexane:Ethyl acetate (1:1)
<u>NMR Spectrum:</u>	Enclosed (Conforms to the structure)
<u>Moisture content:</u>	0.2%
<u>Storage:</u>	Cool dry place
<u>Purity(HPLC):</u>	99.29%





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Product Name: **2',3',4'-TRIHYDROXYFLAVONE**

Lot Number: 1309375

Chemical Formula: C₁₅H₁₀O₅

Molecular Weight: 270.25

Melting point: 252-255°C

Appearance: Pale yellow powder

Solubility: Soluble in DMSO

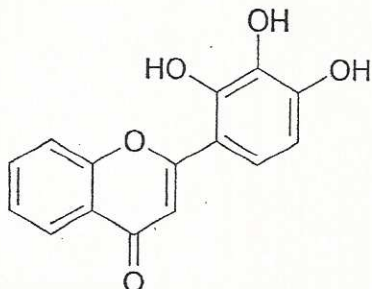
TLC: Hexane:Ethyl acetate (1:1)

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Moisture content: 0.2%

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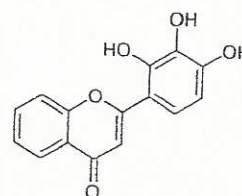
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HPLC ANALYSIS

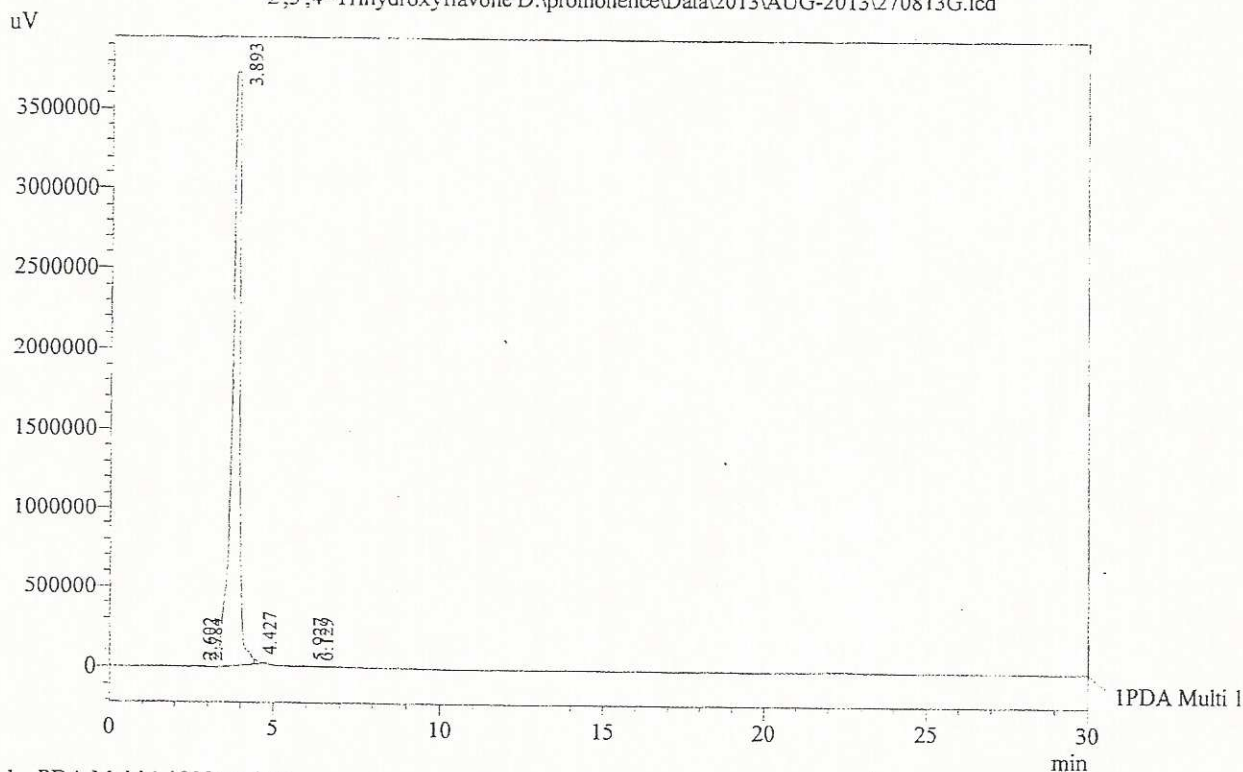
Acquired by : Sanjeev
Sample Name : 2',3',4'-Trihydroxyflavone
Sample ID : 6.5gm Lot
Injection Volume : 20 uL
Data Filename : 270813G.lcd
Method Filename : Linear Isocratic.M.lcm

Catalog No.: 19-923
Product Name: 2',3',4'-Trihydroxyflavone
Lot No.: 1309375

Column : LUNA C-18(2), (250mm x4.6mm 5.0μ)
Flow : 0.800 mL/min.
Mobile Phase : A(10% of 0.05% TFA in water) B(20% of Acetonitrile)
B(70% of Methanol)



Chromatogram
2',3',4'-Trihydroxyflavone D:\promonence\Data\2013\AUG-2013\270813G.lcd



1 PDA Multi 1 / 220nm 4nm

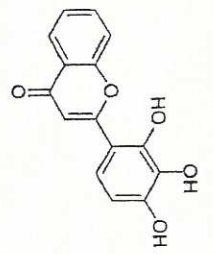
PeakTable

PDA Ch1 220nm 4nm

Peak#	Name	Ret. Time	Area	Area %	Relative Retention Time
1	RT:2.602	2.602	65376	0.11	0.67
2	RT:2.784	2.784	45133	0.07	0.72
3	2',3',4'-Trihydroxyflavone	3.893	61378036	99.29	1.00
4	RT:4.427	4.427	164379	0.27	1.14
5	RT:5.927	5.927	48804	0.08	1.52
6	RT:6.129	6.129	112162	0.18	1.57
Total			61813891	100.00	



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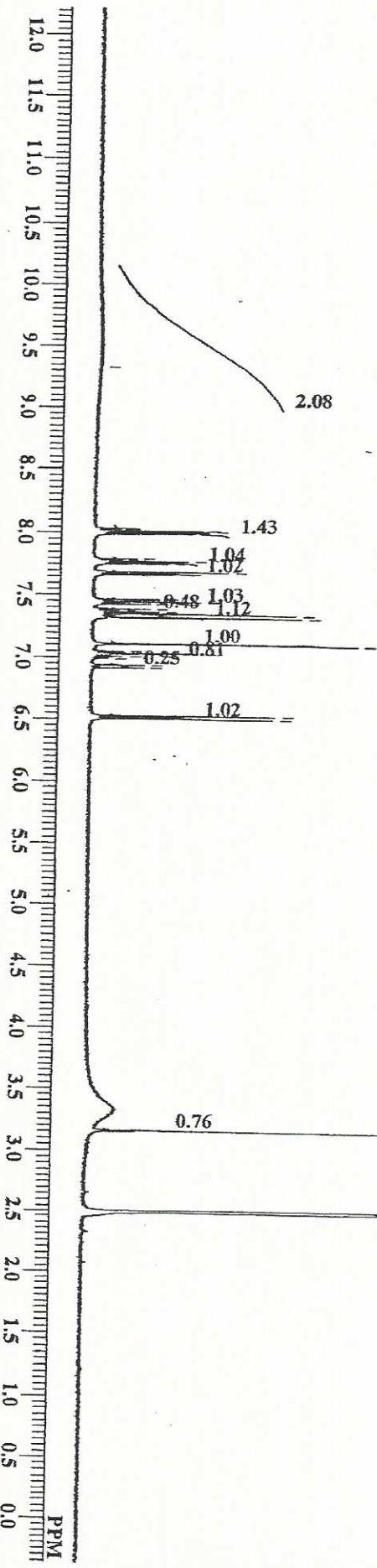
Catalog No.: 19-923
 Product Name: 2,3,4-Trihydroxyflavone
 Lot No.: 1309375

FLV-Final(RC) 1H NMR DMSO-d6
 Analysed By : MSR

- 9.324
- 8.033
- 8.029
- 8.012
- 8.008
- 7.992
- 7.988
- 7.792
- 7.787
- 7.774
- 7.770
- 7.766
- 7.753
- 7.749
- 7.686
- 7.666
- 7.462
- 7.444
- 7.427
- 7.424
- 7.381
- 7.359
- 7.346
- 7.324
- 7.102
- 7.045
- 7.030
- 7.024
- 7.003
- 6.986
- 6.935
- 6.913
- 6.523
- 6.501

3.157

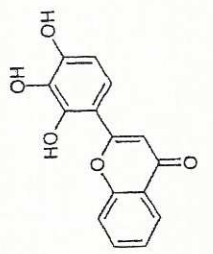
DFILE	FLV-Final(RC) 1Hals
COMNT	FLV-Final(RC) 1H NMR
DATIM	Mon Aug 26 18:11:46 2013
OBNUC	1H
EXMOD	NON
OBFRQ	399.65 MHz
OBSET	124.00 KHz
OBFIN	10500.00 Hz
POINT	65536
FREQU	8000.00 Hz
SCANS	32
ACQTM	8.1920 sec
PD	3.0000 sec
PW1	5.80 usec
IRNUC	1H
CTEMP	23.3 c
SLVNT	DMSO
EXREF	2.49 ppm
BF	0.30 Hz
RGAIN	24





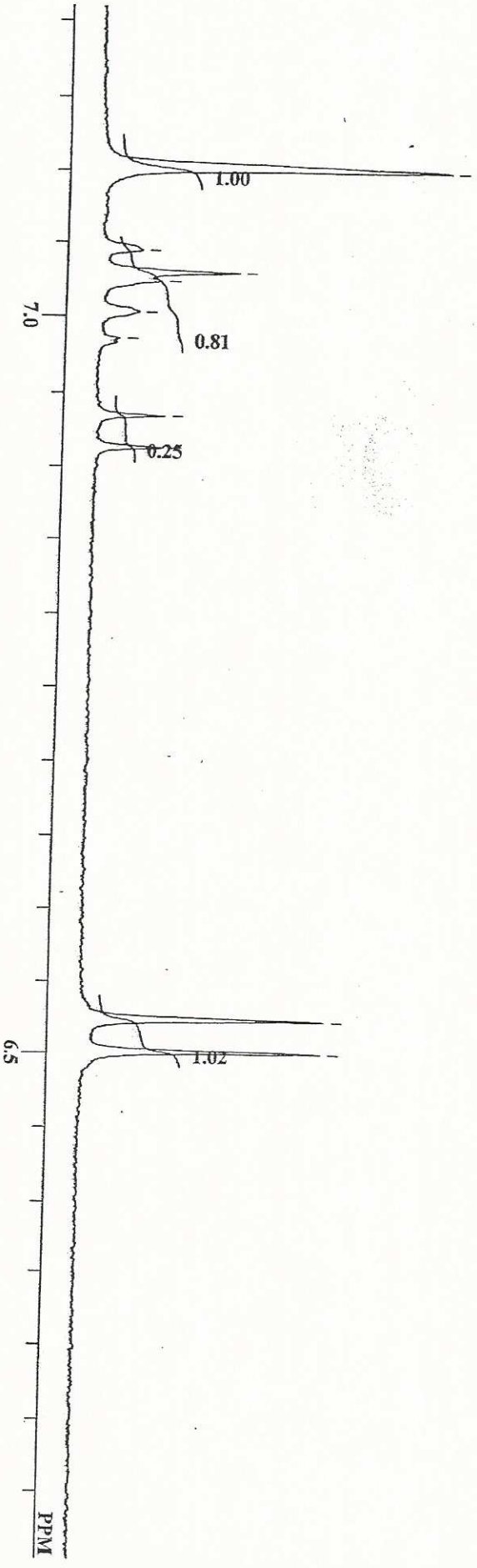
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FLV-Final(RC) 1H NMR DMSO-d6
 Analysed By : MSR



- 7.102
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- 7.030
- 7.024
- 7.003
- 6.986
- 6.935
- 6.913

- 6.523
- 6.501

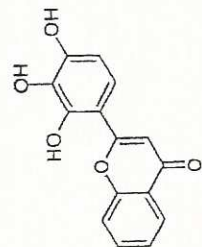


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COMNT	FLV-Final(RC) 1H NMR
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SCANS	32
ACQTM	8.1920 sec
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IRNUC	1H
CTEMP	23.3 c
SLVNT	DMSO
EXREF	2.49 ppm
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RGAIN	24



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Catalog No.: 19-923
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 Lot No.: 1309375

FLV-Final(RC) 1H NMR DMSO-d6
 Analysed By: MSR

8.033
 8.029
 8.012
 8.008
 7.992
 7.988

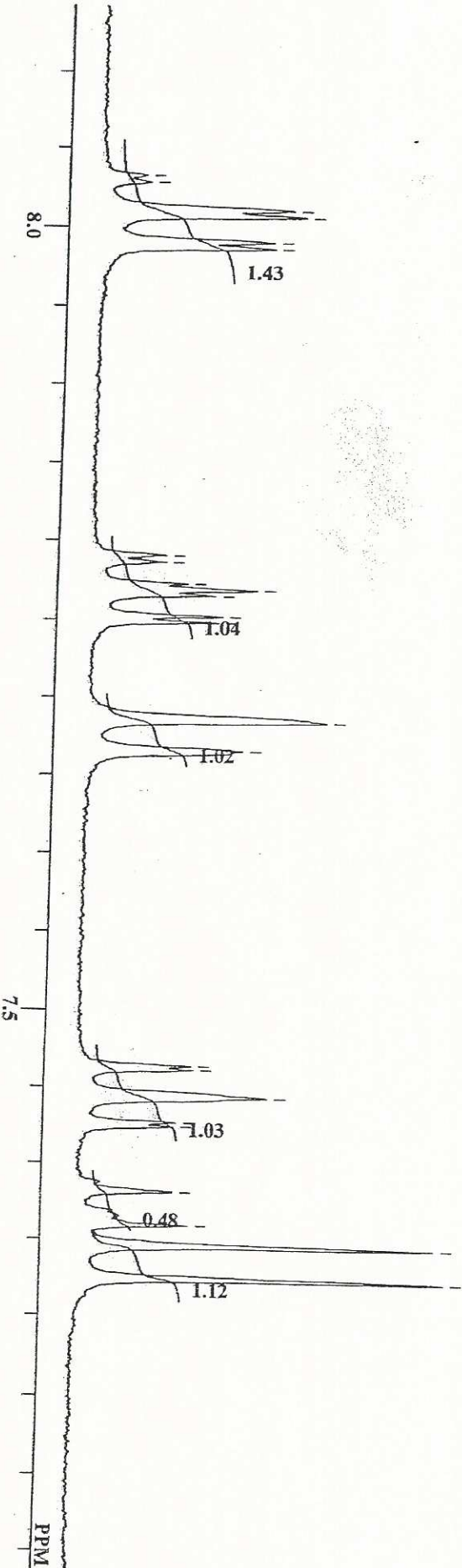
7.792
 7.787
 7.774
 7.770
 7.766
 7.753
 7.749

7.686
 7.666

7.464
 7.462
 7.444
 7.427
 7.424

7.381
 7.359
 7.346
 7.324

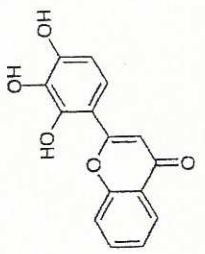
DFILE	FLV-Final(RC) 1H.a1s
COMNT	FLV-Final(RC) 1H NMR D
DATEM	Mon Aug 26 18:11:46 2013
OBNUC	1H
EXMOD	NON
OBFRQ	399.65 MHz
OBSET	124.00 KHz
OBFIN	10500.00 Hz
POINT	65536
FREQU	8000.00 Hz
SCANS	32
ACQTM	8.1920 sec
PD	3.0000 sec
PWI	5.80 usec
IRNUC	1H
CTEMP	23.3 c
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RGAIN	24





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Catalog No.: 19-923
Product Name: 2',3',4'-Trihydroxyflavone
Lot No.: 1309375



Sample Information
Sample Name : FLY-FINAL-Forcible
Batch No :
Data File : FLY-FINAL-Forcible.lcd
Method File : Test1(ESI).lcm
Acquired by : KKIran
Date Acquired : 8/24/2013 11:28:31

Probe : ESI
Polarity: Pos

MS Spectrum Graph

