



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: D-118

Product Name: **5,4'-DIHYDROXY-7-METHOXYISOFLAVONE**
(Prunetin)

CAS Number: [552-59-0]

Lot Number: 1307357

Chemical Formula: C₁₆H₁₂O₅

Molecular Weight: 284.27

Melting Point: 239-241°C

Appearance: Off white powder

Water Content(KF): 0.2%

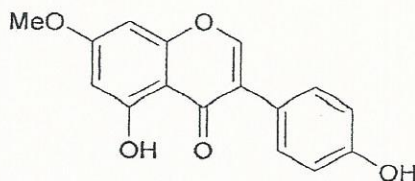
Solubility: Soluble in DMSO

TLC: Hexane : Ethyl acetate (7:3)

NMR Spectrum: Enclosed (Confirms to the structure)

Storage: Store at -0°C

Purity (HPLC): 99.64%





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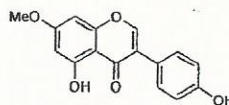
e-mail: chemical@indofinechemical.com

HPLC ANALYSIS

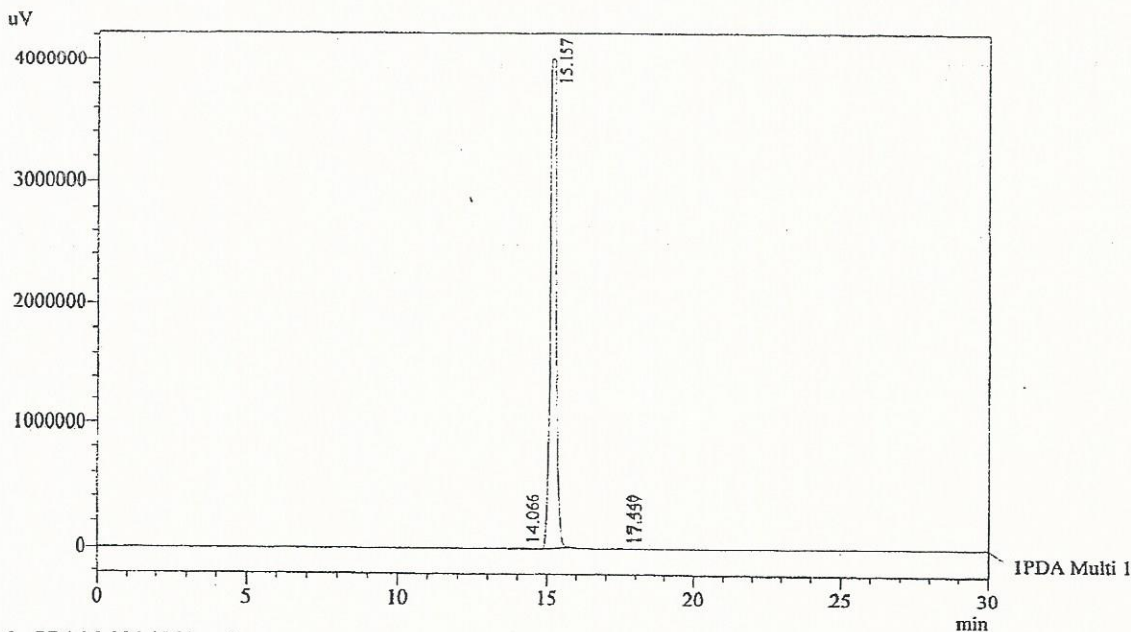
Acquired by : Sanjeev
 Sample Name : Prunetin
 Sample ID : 10 gms Lot
 Injection Volume : 20 uL
 Data Filename : 090713J.lcd
 Method Filename : Linear Gradient.M.lcm

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Column : LUNA C-18(2), (250mm x4.6mm 5.0µ)
 Flow : 1.000 mL/min.
 Mobile Phase : A(0.05% TFA in water) B(Acetonitrile)
 0.01 90 10
 12.0 10 90
 20.0 10 90
 23.0 90 10
 30.0 90 10
 Diluent : Methanol



Chromatogram



1 PDA Multi 1 / 254nm 4nm

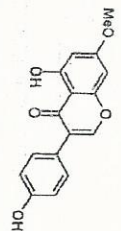
PeakTable

PDA Ch1 254nm 4nm

Peak#	Name	Ret. Time	Area	Area %	Relative Retention Time
1	RT:14.066	14.066	83756	0.14	0.93
2	Prunetin	15.157	60054781	99.64	1.00
3	RT:17.440	17.440	74905	0.12	1.15
4	RT:17.537	17.537	55623	0.09	1.16
Total			60269065	100.00	

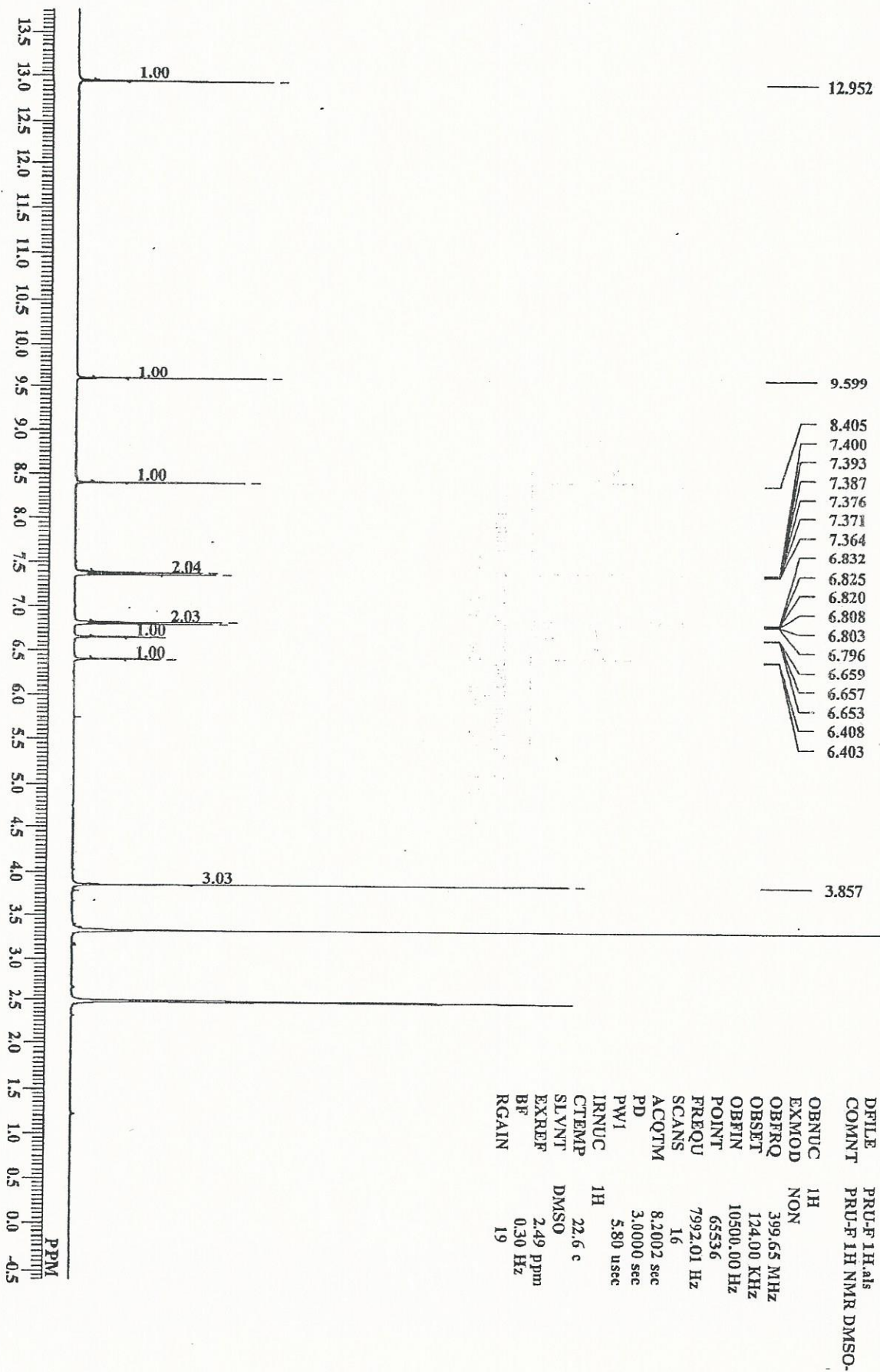


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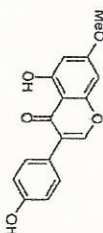
PRU-F 1H NMR DMSO-d6
 Analysed By: TJR



DFILE	PRU-F 1H.a1s
COMNT	PRU-F 1H NMR DMSO-
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	22.6 c
SLVNT	DMSO
EXREF	2.49 ppm
BF	0.30 Hz
RGAIN	19



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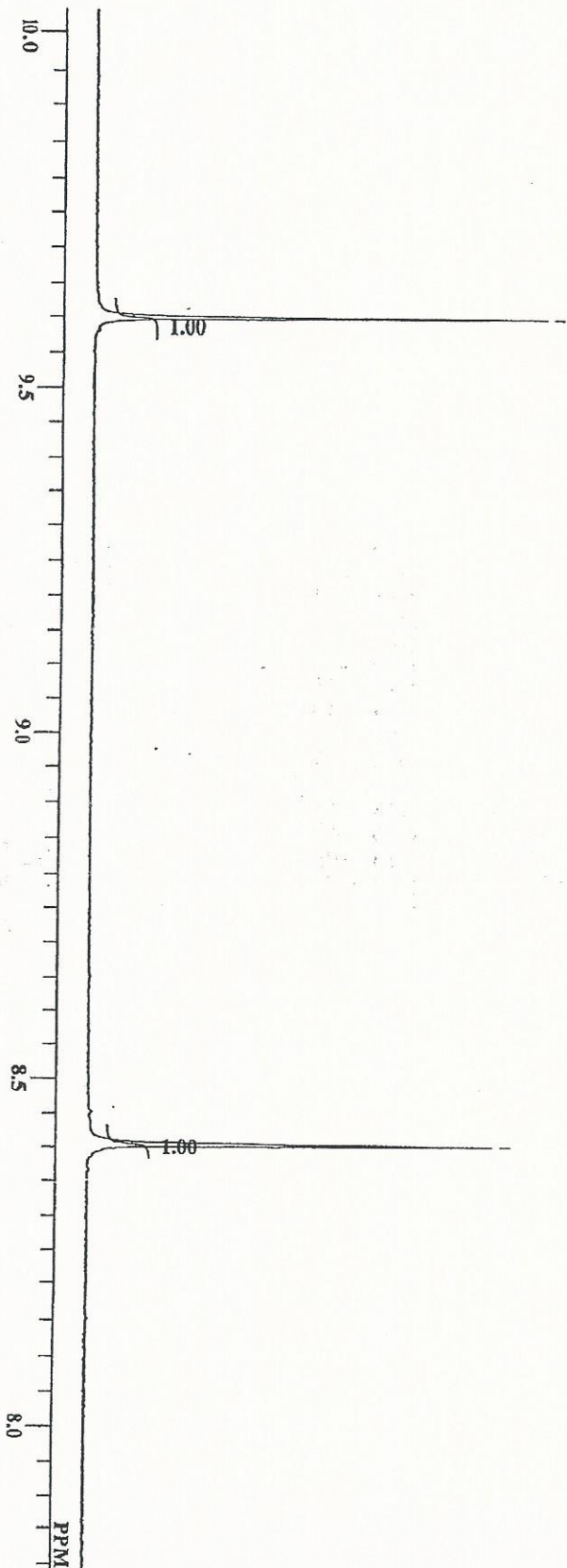


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PRU-F 1H NMR DMSO-d6
 Analysed By: TJR

9.599

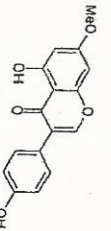
8.405



DPFILE	PRU-F 1H.a1s
COMNT	PRU-F 1H NMR DMSO
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	22.6 c
SLVNT	DMSO
EXREF	2.49 ppm
BF	0.30 Hz
RGAIN	19



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PRU-F 1H NMR DMSO-d6

Analysed By: TJR

7.400
 7.393
 7.387
 7.376
 7.371
 7.364

6.832
 6.825
 6.820
 6.808
 6.803
 6.796

6.659
 6.657
 6.653

6.408
 6.403

DRPLE	PRU-F 1H,als
COMNT	PRU-F 1H NMR DMSO-
OBNUC	1H
EXMOD	NON
OBFRQ	399.65 MHz
OBSET	124.00 KHz
OBFIN	10500.00 Hz
POINT	65536
FREQU	7992.01 Hz
SCANS	16
ACQIM	8.2002 sec
PD	3.0000 sec
PWI	5.80 usec
IRNUC	1H
CTEMP	22.6 c
SLVNT	DMSO
EXREF	2.49 ppm
BF	0.30 Hz
RGAIN	19

