



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.: 020535

COUMESTROL

Product:

Cas Number:

[479-13-0]

Lot Number:

1301295

Chemical Formula:

C₁₅H₈O₅

Molecular Weight:

268.22

Melting Point:

>300°C

Appearance:

Pale yellow powder

Solubility:

Soluble in DMSO

TLC:

Hexane:Ethyl acetate (6:4)

NMR Spectrum:

Enclosed

Mass Spec:

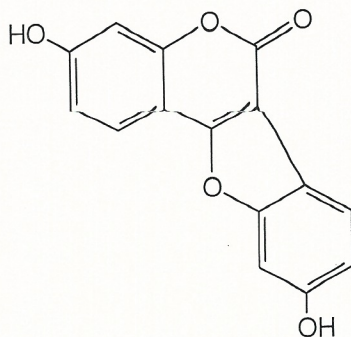
Complies (M⁻¹=267.2)

Storage:

Cool dry place

Purity (HPLC):

99.14%





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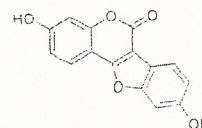
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HPLC ANALYSIS

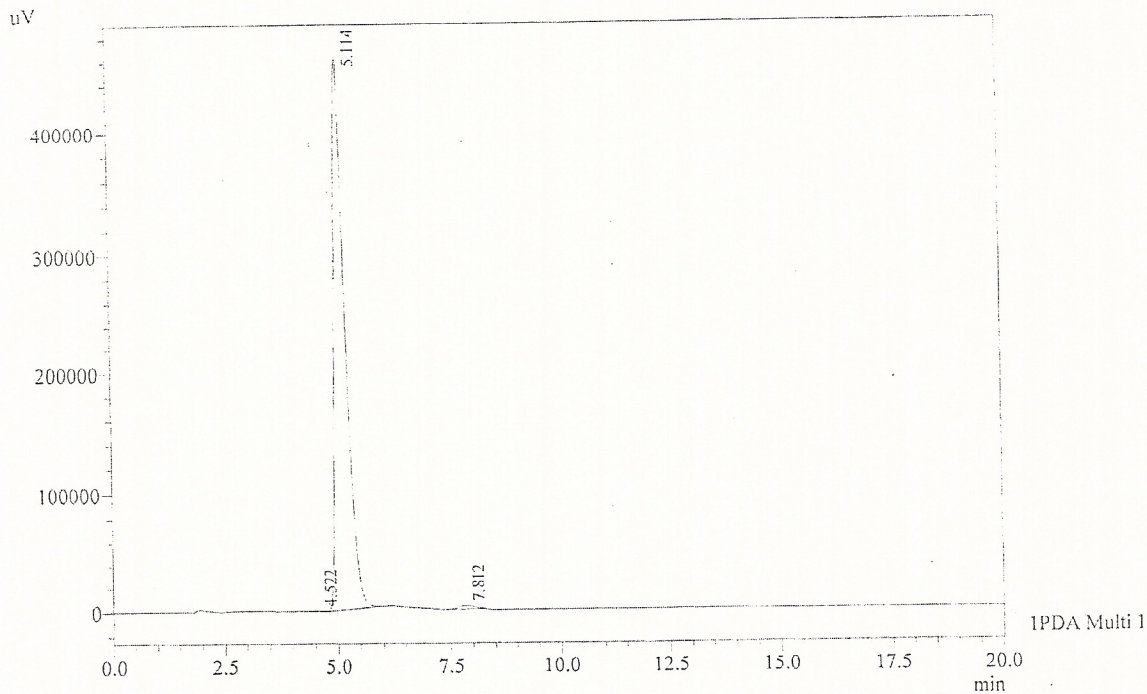
Acquired by : Sanjeev
Sample Name : Coumestrol
Sample ID : 10 gm Uniform Lot
Injection Volume : 20 uL
Data Filename : 250113F.lcd
Method Filename : Linear Isocratic.M.lcm

Catalog no.: 020535
Product name: Coumestrol
Lot No.: 1301295



Column : LUNA C-18(2), (250mm x4.6mm 5.0µ)
Flow : 1.000 mL/min.
Mobile Phase : A(50% of 0.05% TFA in water) B(50% of Acetonitrile)

Chromatogram
Coumestrol D:\promonence\Data\2013\JAN-2013\250113F.lcd



1 PDA Multi 1 / 254nm 4nm

PeakTable

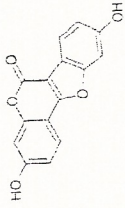
PDA Ch1 254nm 4nm

Peak#	Name	Ret. Time	Area	Area %	Relative Retention Time
1	RT:4.522	4.522	5431	0.07	0.88
2	Coumestrol	5.114	8203881	99.14	1.00
3	RT:7.812	7.812	66095	0.80	1.53
Total			8275407	100.00	



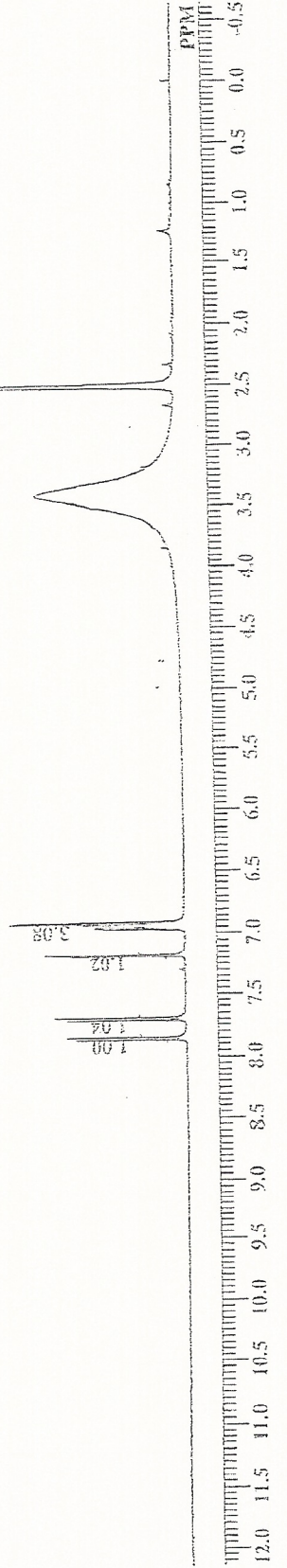
INDOFINE Chemical Company, Inc.
121 STRYKER LANE
BLDG. 30, SUITE 1
HILLSBOROUGH, NJ 08844

Catalog no.: 020535
Product name: Coumestrol
Lot No.: 1301295



COUMESTROL 1H NMR DMSO-d6
Analysed By : TJR

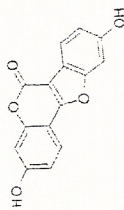
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COMNT COUMESTROL 1H NMR
DATIM Sat Jan 26 02:34:41 2013
OBNUC 1H
EXMOD NON
OBFRQ 399.65 MHz
OBSET 124.00 KHz
OBTIN 10500.00 Hz
POINT 65536
FREQU 7992.04 Hz
SCANS 16
ACQTM 8.2002 sec
PD 3.0000 sec
PVI 6.00 08sec
IRNUC 11
CTEMP 21.6 C
SLVNT DMSO
EXREF 0.00 ppm
BF 0.30 Hz
RGAIN 17





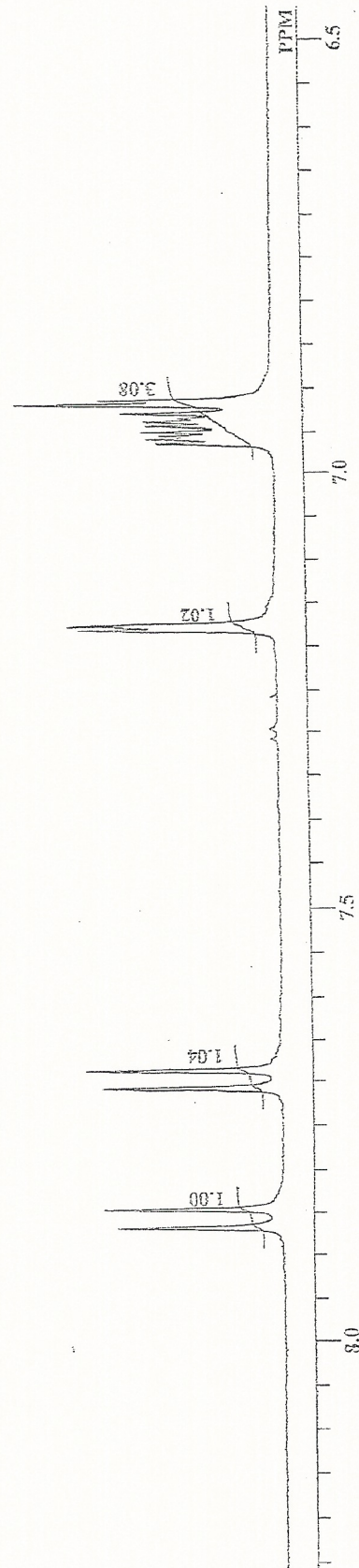
INDOFINE Chemical Company, Inc.
121 STRYKER LANE
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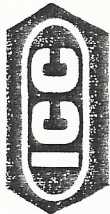
Catalog no.: 020535
Product name: Coumestrol
Lot No.: 1301295



COUMESTROL 1H NMR DMSO-d6
Analysed By: TJR

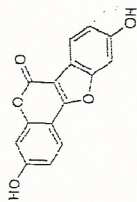
DPFILE COUMESTROL 1H.n1s
COMNT COUMESTROL 1H NMR DMSO
DATIM Sat Jan 26 02:34:41 2013
ORNUC 1H
EXMOD NON
OBPRQ 399.65 MHz
OBSET 124.00 KHz
OBPIN 10500.00 Hz
POINT 65536
FREQU 7992.01 Hz
SCANS 16
ACQTM 8.2002 sec
PD 3.0000 sec
PWI 6.00 user
IRNUC 1H
CTEMP 21.6 c
SLVNT DMSO
EXREF 0.00 ppm
BF 0.30 Hz
RGAIN 17





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Catalog no.: 020535
Product name: Coumestrol
Lot No.: 1301295



Sample Information
Sample Name : COU-FINAL
B.No. :
Data File : COU-FINAL.icd
Method File : A1SIN-APCI.lcm
Acquired by : ESK:ran
Date Acquired : 1/25/2013 10:40:47

Probe : APCI
Polarity: Neg

MS Spectrum Graph

