



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.: N-101

Product: **NARINGENIN**
(5,7,4'-Trihydroxyflavanone)

Cas Number: [480-41-1]

Lot Number: 0406219

Chemical Formula: C₁₅H₁₂O₅

Molecular Weight: 272.26

Melting Point: 251-253°C

Appearance: Off white powder

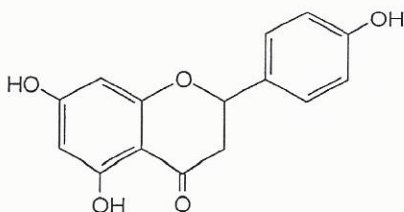
Solubility: Soluble in DMSO

TLC: Hexane: Ethyl acetate (1:1)

NMR Spectrum: Enclosed

Storage: Cool dry place

Purity (HPLC): 99.50%





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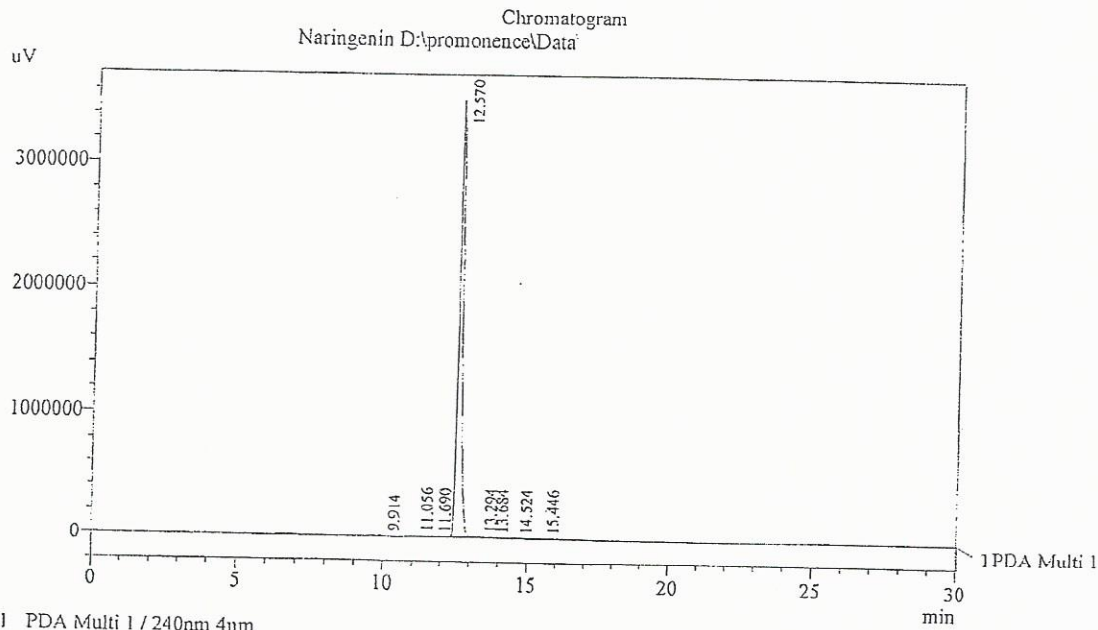
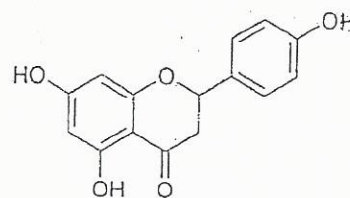
HPLC ANALYSIS

Acquired by : Sanjeev
 Sample Name : Naringenin
 Sample ID : Lot No:-0406219
 Injection Volume : 20 uL
 Data Filename : 191012K.lcd
 Method Filename : Linear Gradient.M.lcm

Catalog no.: N-101
 Product name: Naringenin
 Lot No.: 0406219

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



1 PDA Multi 1 / 240nm 4nm

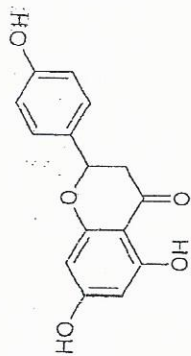
PeakTable

Peak#	Name	Ret. Time	Area	Area %	Relative Retention Time
1	RT:9.914	9.914	77086	0.21	0.79
2	RT:11.056	11.056	47708	0.13	0.88
3	RT:11.690	11.690	3331	0.01	0.93
4	Naringenin	12.570	36453762	99.50	1.00
5	RT:13.294	13.294	20290	0.06	1.06
6	RT:13.684	13.684	6234	0.02	1.09
7	RT:14.524	14.524	4632	0.01	1.16
8	RT:15.446	15.446	22168	0.06	1.23
Total			36635210	100.00	



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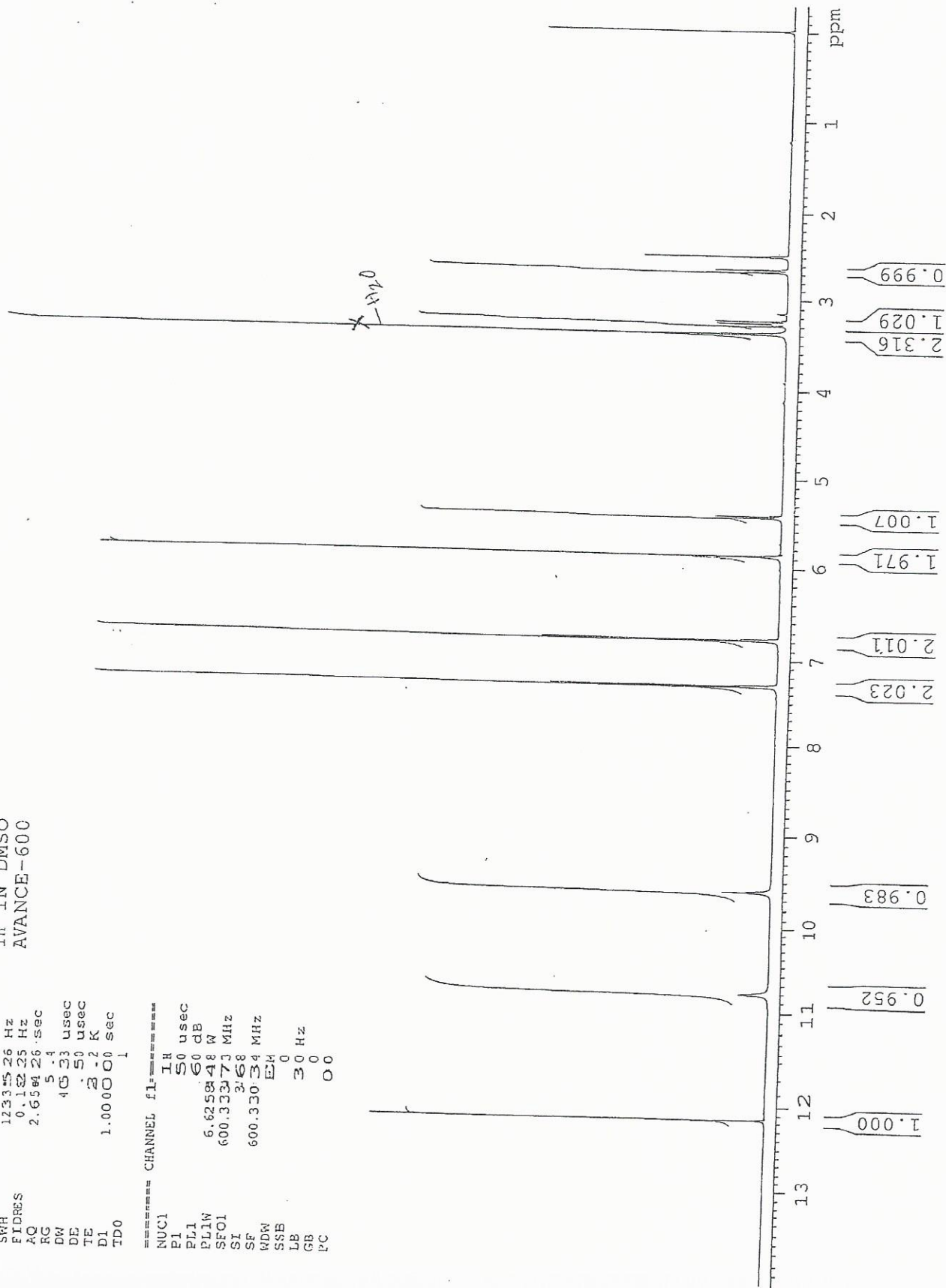
Catalog no.: N-101
 Product name: Naringenin
 Lot No.: 0406219



SOLVENT MISO
 NS 16
 DS 2
 SWH 12335.26 Hz
 FIDRES 0.18235 Hz
 AQ 2.658126 sec
 RG 5.4
 DW 40.33 usec
 DE 1.50 usec
 TE 3.2 K
 D1 1.000000 sec
 TD0 1

ICC-OCT-03
 1H IN DMSO
 AVANCE-600

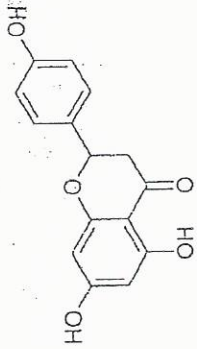
===== CHANNEL f1 =====
 NUC1 IR
 P1 50 usec
 PL1 60 dB
 PL1W 6.625848 W
 SF01 600.33373 MHz
 SI 3.68
 SF 600.33034 MHz
 E2H
 SSB 0
 LB 30 Hz
 GB 0
 PC 00





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Catalog no.: N-101
 Product name: Naringenin
 Lot No.: 0406219



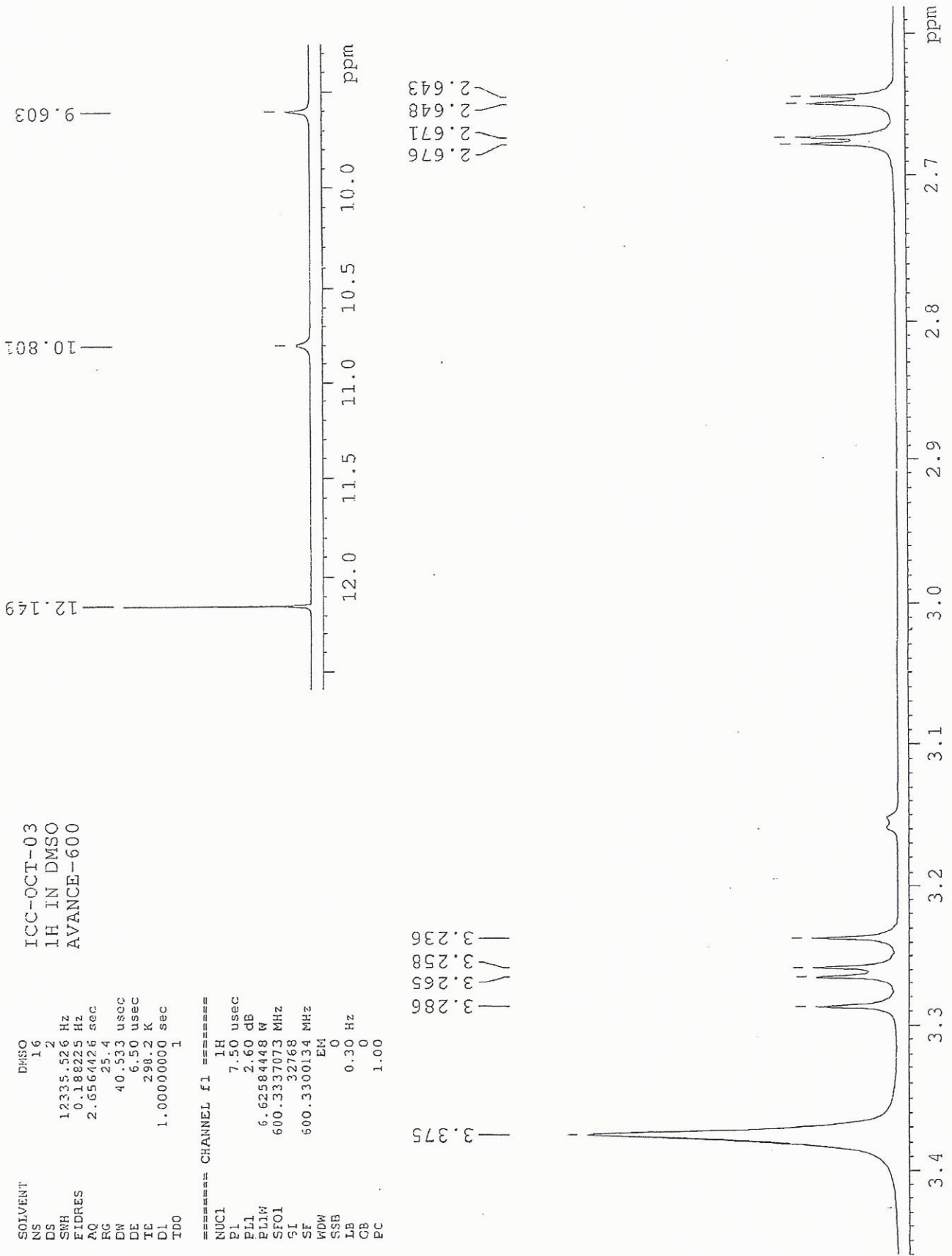
SOIVENT DMSO
 NS 16
 DS 2
 SMH 12335.526 Hz
 FIDRES 0.188225 Hz
 AQ 2.6564426 sec
 RG 25.4
 DW 40.533 usoc
 DE 6.50 usec
 TE 298.2 K
 D1 1.00000000 sec
 TDO 1

===== CHANNEL f1 =====
 NUC1 1H
 P1 7.50 usec
 PL1 2.60 dB
 PL1W 6.62584448 W
 SF01 600.3337073 MHz
 S1 32768
 SF 600.3300134 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

12.149
 10.801
 9.603

3.375
 3.285
 3.265
 3.258
 3.236

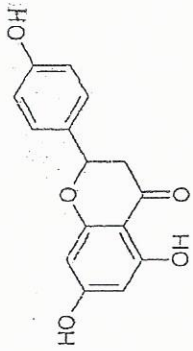
2.676
 2.671
 2.648
 2.643





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ICC-OCT-03
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SI 327.64
SE 600.33300134 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

