



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

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CERTIFICATE OF ANALYSIS

Catalog Number: 021128S

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

CAS Number: [480-41-1]

Lot Number: 0704036

Chemical Formula: C₁₅H₁₂O₅

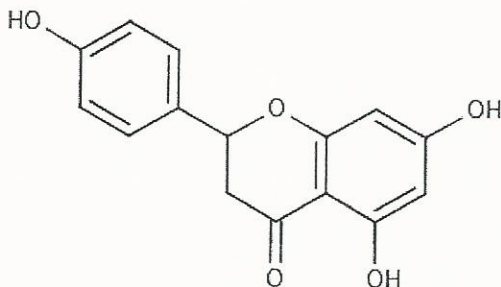
Molecular Weight: 272.27

Appearance: White powder

Melting Point: 249-251°C

Storage: Store in a cool, dry place. Protected from light.

Purity(HPLC): 99.68%





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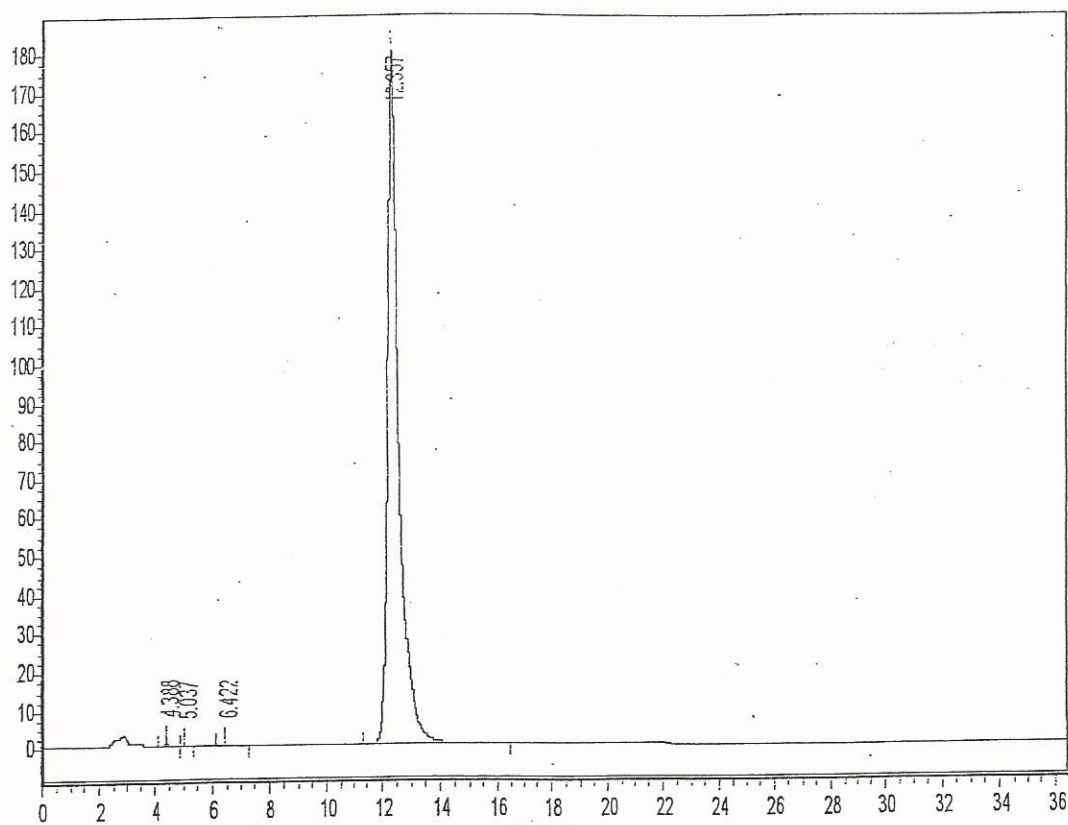
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Product Name: Naringenin Chrom-Column: Arcus EP-C8
Lot Number: 0704036 Mobile Phase:
Catalog No.: 021128S Wavelength: 288 nm
Inject Vol: 5.0 µL
Analyst: Flow: 1.00 ml/min



No.	Ret. Time min	Height mAU	Area mAU*min	Rel. Area %
1	4.388	456.712	7777.237	0.1601
2	5.037	83.627	1921.976	0.0396
3	6.422	162.264	5362.680	0.1104
4	12.357	180041.766	4841429.000	99.6899
Total:			4856490.893	100.0000

CNMR REPORT

Catalog No.: 0211285
 Name: Naringenin
 Lot No.: 0704036

Current Date Parameters
 NAME 1053-N7
 EXPNO 2
 PROCNO 1

F2 - Acquisition Parameters

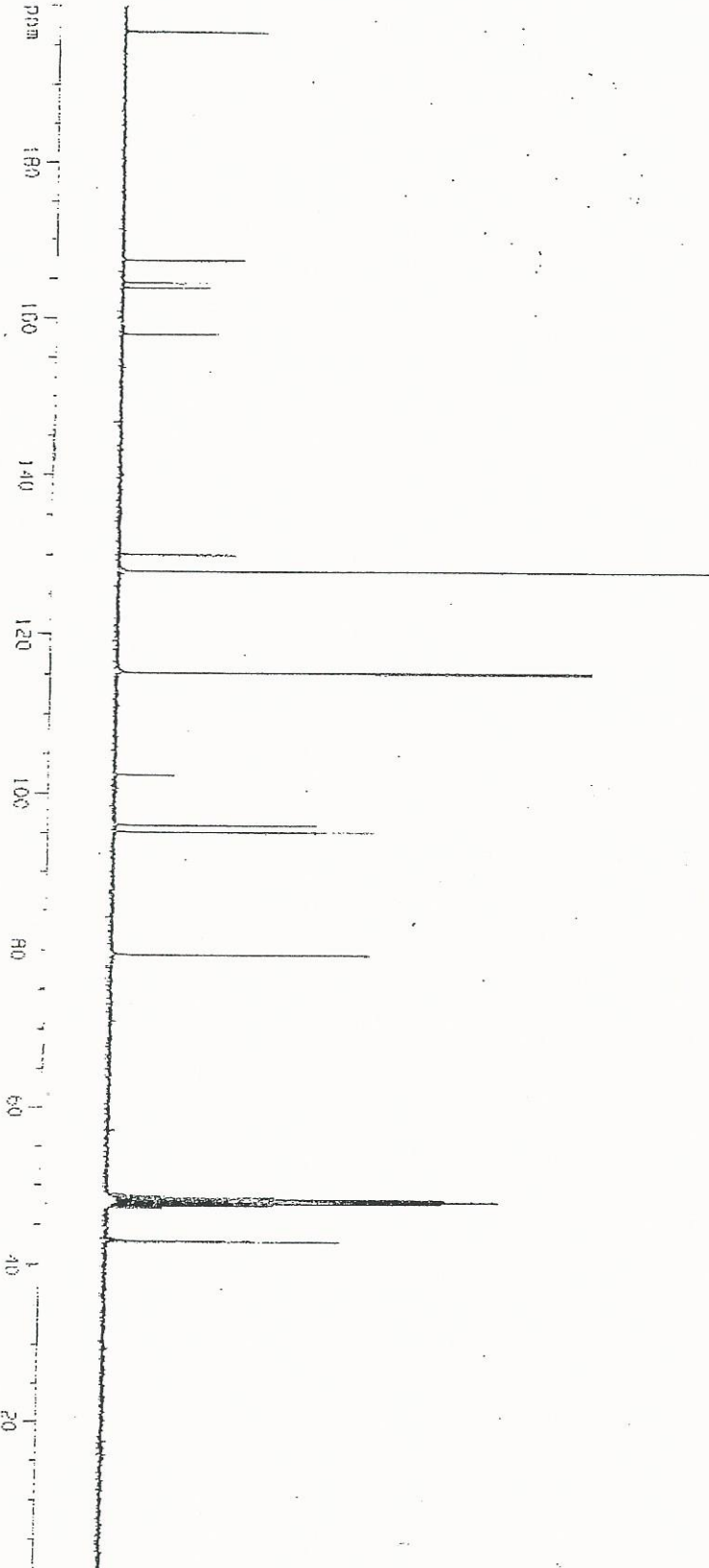
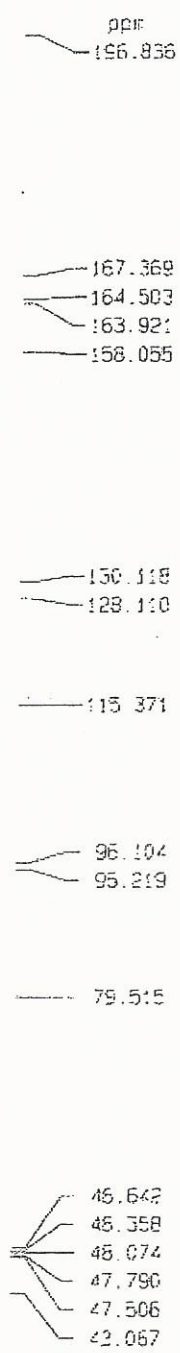
INSTROM DPX300
 PULPROG zgpg30
 TO 32768
 SOLVENT H2O
 NS 1047
 DS 0
 SWH 21929.824
 FIDRES 0.1669245
 AQ 0.7471604
 RG 9155.2
 TR 22.800
 TE 300.2
 D1 3.00000000
 D11 0.03000000
 D12 0.00020000

***** CHANNEL f1 *****
 NUC1 13C
 P1 3.00
 PL1 -6.00
 SFO1 75.4755345

***** CHANNEL f2 *****
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 80.00
 PL2 120.00
 PL12 14.00
 PL13 14.00
 SFO2 300.1313115

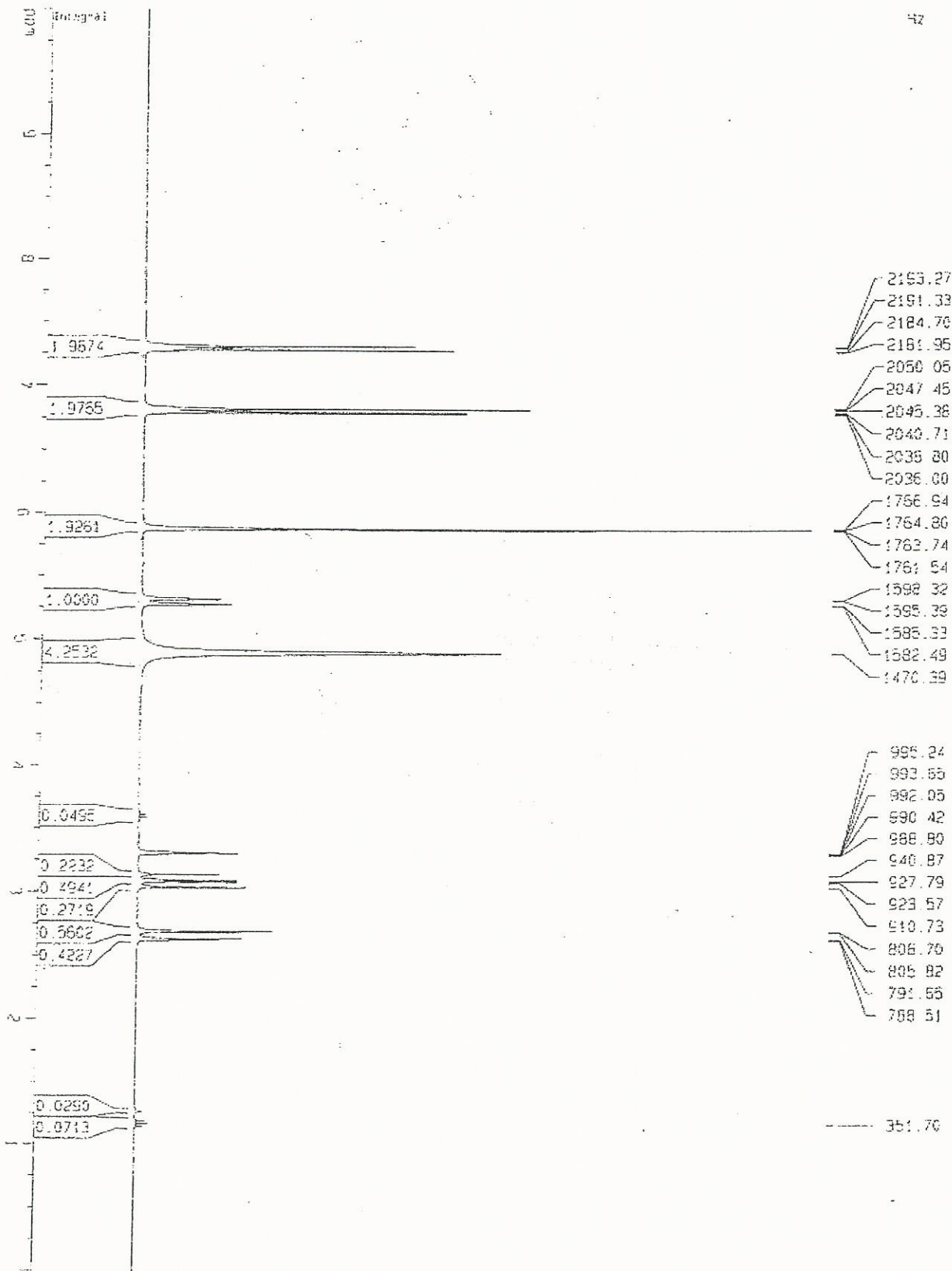
F2 PROCESSING PARAMETERS
 SI 32768
 SF 75.4677150
 N 8
 SSB 0
 EB 0
 LB 1.00
 GB 0
 PC 1.40

1D NMR P101 PARAMETERS
 F1 23.00
 F1 200.000
 F1 15093.84
 F2 0.000
 F2 0.0011
 SFO1 75.4677150
 SFO2 300.1313115



Catalog No.: 021128S
 Name: Naringenin
 Lot No.: 0704036

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Current Data Parameters
 NAME: 1089-N7
 EXNO: 1
 PROCNO: 1

*2 - Acquisition Parameters
 INSTRUM: QNP300
 PULPROG: zgpg30
 TD: 32768
 SOLVENT: MeOH
 NS: 6
 DS: 2
 SWH: 8992.806 Hz
 FIDRES: 0.250009 Hz
 RG: 1.9999920
 INJ: 258
 CH: 5h 600 usi
 IL: 0.00 usi
 IE: 300.0 K
 CI: 5.00000000 sel

----- CHANNEL f1 -----
 NUC1: 1H
 P1: 2.00 usi
 PL1: -E.00 dB
 SFO1: 300.1313113 MHz

F2 - Processing parameters
 SI: 16384
 SF: 300.130059 MHz
 AQ: no
 RM: 0
 SS: 0
 LB: 0.00 Hz
 GB: 0
 PC: 1.00

10 XMR plot parameters
 CX: 03.00 cm
 rfu: 10.000 dB
 F1: 3821.00 Hz
 F2: -0.000000 Hz
 Z2: -0.00 Hz
 SFOF1: 0.0278 MHz
 WZCM: 150.05150 MHz