



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: 020107S

Product Name: **GINSENSIDE Rf with HPLC**

Chemical Family: Saponins

Cas Number: [52286-58-5]

Lot Number: 1309388

Chemical Formula: $C_{42}H_{72}O_{14}$

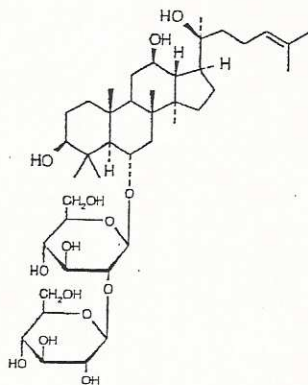
Molecular Weight: 801.03

Appearance: White powder

NMR Spectrum: Enclosed

Storage: This product is stable at ambient temperature for several weeks. However, optimum long-term storage may require lower temperature (<-18°C). Place in a desiccator under vacuum before use.

Purity(HPLC): 99.85%





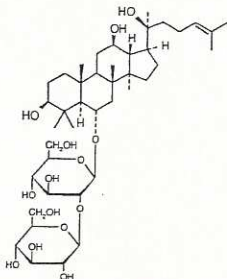
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HPLC ANALYSIS

Catalog No.: 020107S

Product Name: Ginsenoside Rf

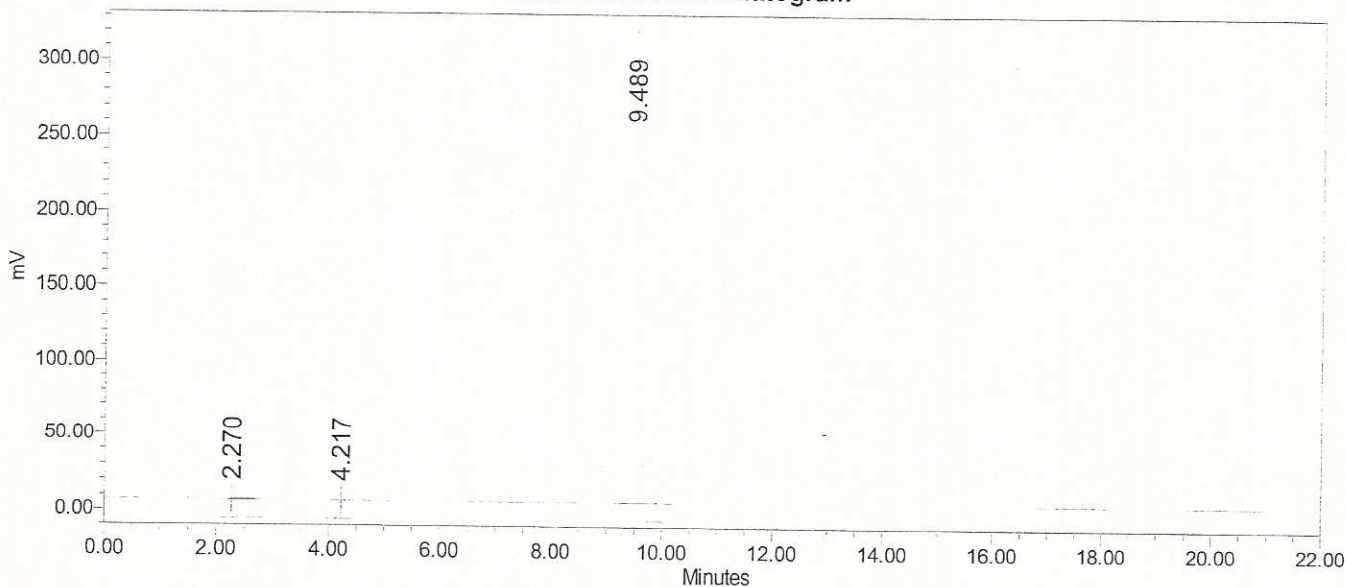
Lot No.: 1309388

SAMPLE INFORMATION

Sample Name: Ginsenoside Rf
Sample Type: Unknown
Vial: 1:A,5
Injection #: 1
Injection Volume: 10.00 ul
Run Time: 22.0 Minutes

Sample Set Name:
Acq. Method Set: Ginsenoside Rf
Processing Method: Samples
Channel Name: SATIN
Proc. Chnl. Descr.:

Auto-Scaled Chromatogram



Peak Results

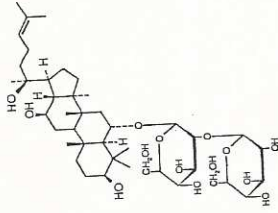
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2	4.217	1416	0.05	2268.98	4.56
3	9.489	2714743	99.85	25665.25	24.86



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 121 STRYKER LANE
 BLDG. 30, SUITE 1
 HILLSBOROUGH, NJ 08844

Catalog No.: 020107S
 Product Name: Ginsenoside Rf
 Lot No.: 1309388

GRF
 PROTON Pyr {E:\nmrdata\lizeyun} lzy 8



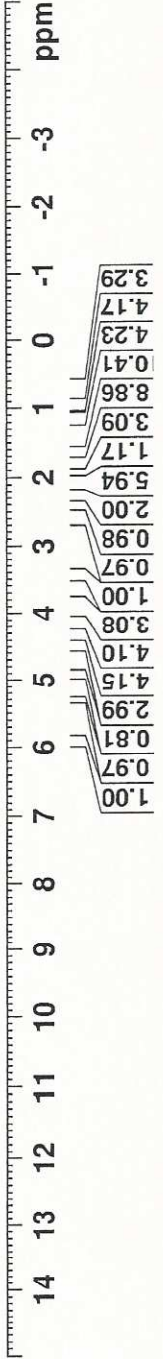
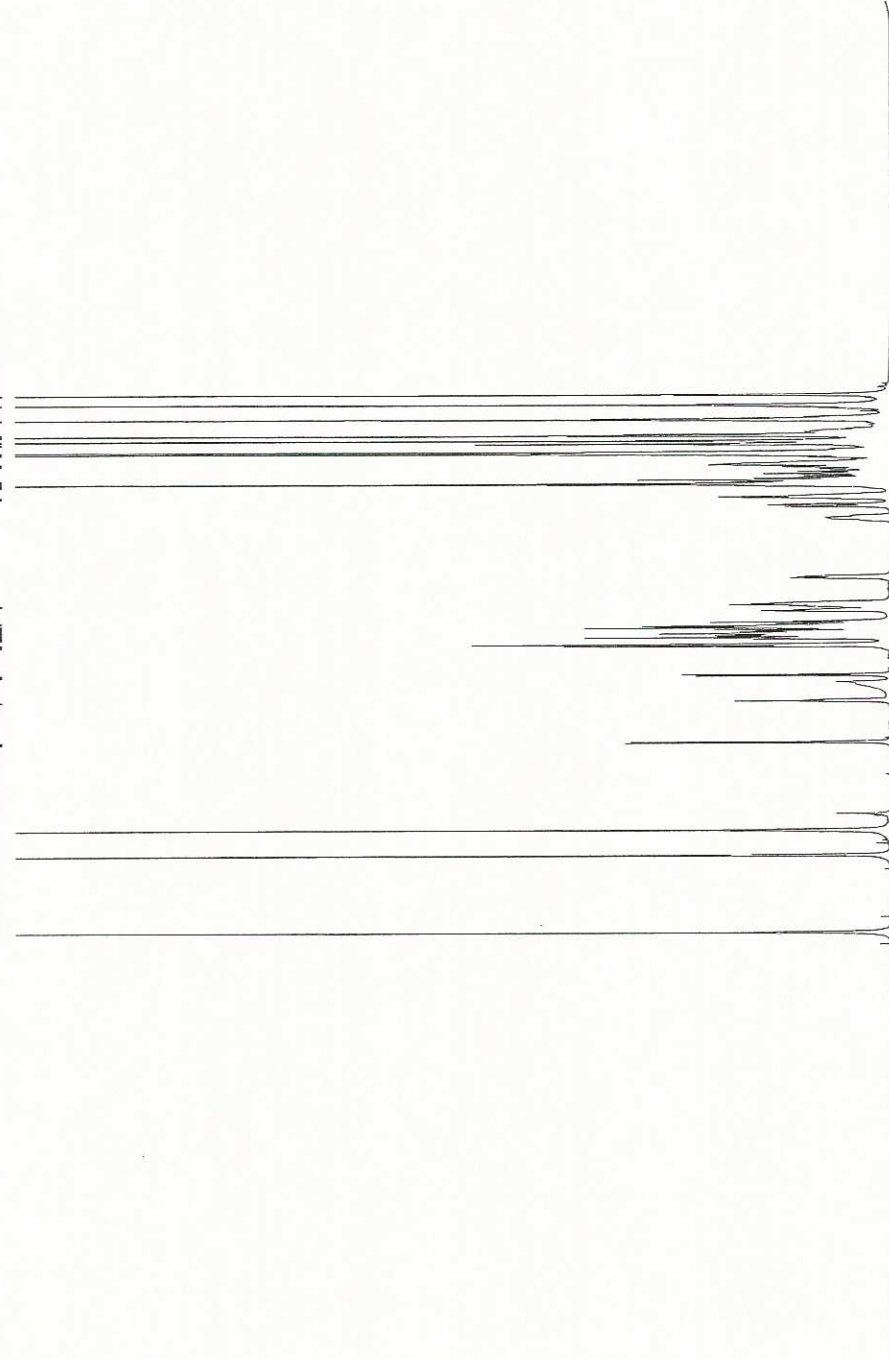
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 1.1398
 1.3562
 1.3824
 1.4522
 1.4961
 1.6134
 1.6301
 1.6429
 1.7825
 1.7941
 1.8034
 2.0139
 2.0400
 2.0705
 2.0994
 2.2657
 2.2836
 3.8467
 3.8524
 4.1169
 4.1716
 4.1844
 4.1947
 4.2027
 4.2136
 4.2349
 4.2647
 4.2929
 4.3078
 4.3207
 4.3324
 4.3513
 4.3624
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 4.4844
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 4.9206
 5.3136
 9.003
 9.189

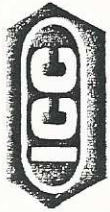
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 EXPNO 9
 PROCNO 1

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 Time 16.44
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zgpr
 TD 65536
 SOLVENT Pyr
 NS 32
 DS 2
 SWH 8012.820 Hz
 FIDRES 0.122266 Hz
 AQ 4.0894465 sec
 RG 90.5
 DM 62.400 usec
 DE 6.50 usec
 TE 298.2 K
 D1 1.00000000 sec
 D12 0.00002000 sec
 TDO 1

==== CHANNEL f1 =====
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 NUC1 1H
 P1 12.95 usec
 PLW1 15.0000000 W
 PLW9 0.00001000 W

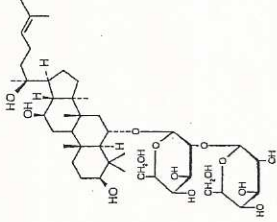
F2 - Processing parameters
 SI 65536
 SF 400.1300000 MHz
 WDW EM
 SSB 0
 LB 0
 GB 0
 PC 1.00





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 HILLSBOROUGH, NJ 08844

GRF
 PROTON Pyr {E:\nmrdata\lizzeyun} lzy 8



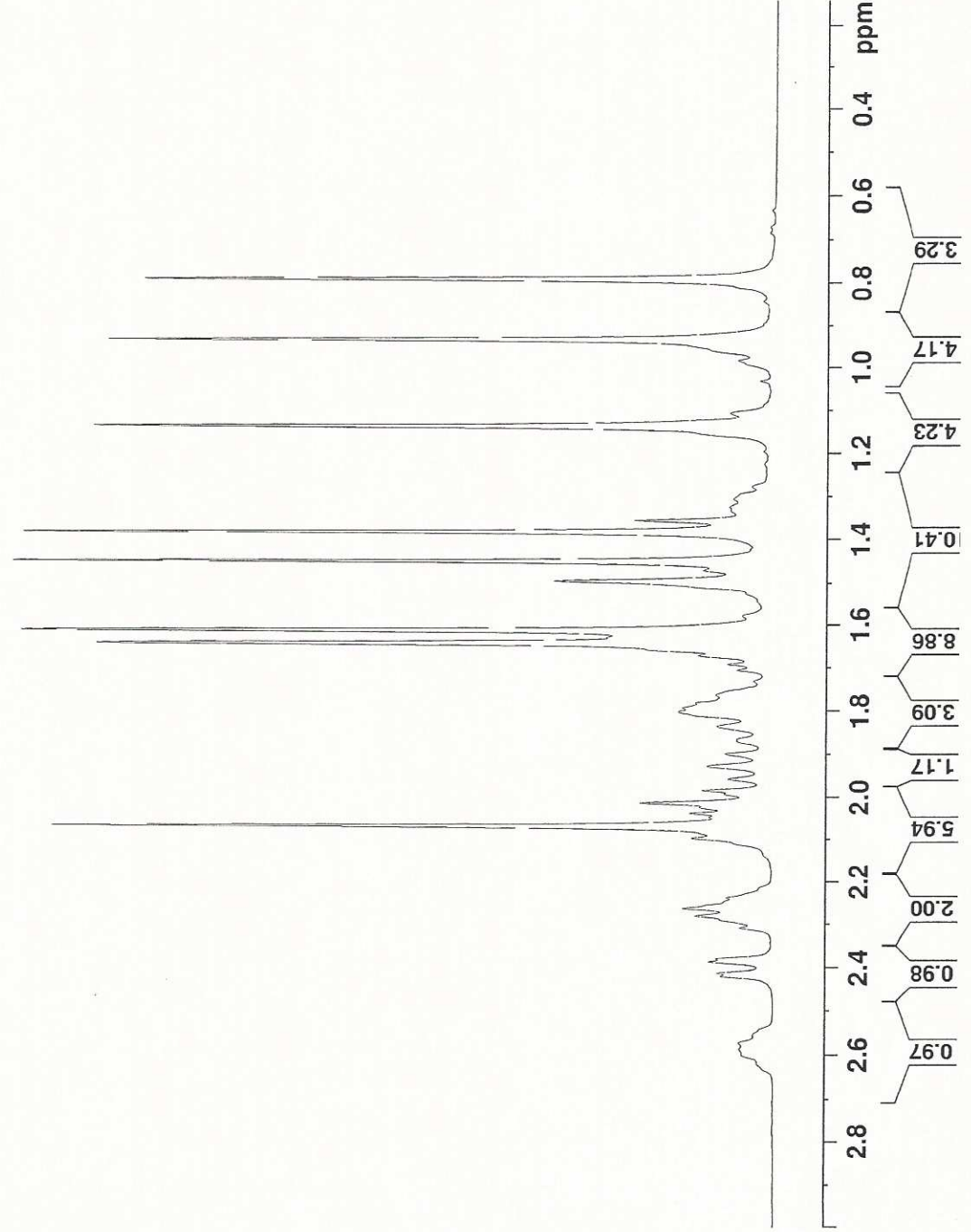
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 2.0139
 1.9947
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 1.9599
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 1.8366
 1.8034
 1.7941
 1.7825
 1.7631
 1.6936
 1.6737
 1.6429
 1.6301
 1.6134
 1.4961
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 1.3257
 1.1398
 1.1084
 0.9342
 0.7922

Current Data Parameters
 NAME 09142013
 EXPNO 9
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20130914
 Time 16.44
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zgpr
 ID 65536
 SOLVENT Pyr
 NS 32
 DS 2
 SWH 8012.820 Hz
 FIDRES 0.122266 Hz
 AQ 4.0894465 sec
 RG 90.5
 DW 62.400 usec
 DE 6.50 usec
 TE 298.2 K
 D1 1.0000000 sec
 D12 0.0000200 sec
 TDO 1

==== CHANNEL f1 =====
 SFO1 400.1320005 MHz
 NUC1 1H
 P1 12.95 usec
 PLW1 15.0000000 W
 PLW9 0.00001000 W

F2 - Processing parameters
 SI 65536
 SF 400.1300000 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00





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Catalog No.: 020107S
 Product Name: Ginsenoside Rf
 Lot No.: 1309388

GRF

PROTON Pyr {E:\nmrdata\lizeyun} lzy 8



Current Data Parameters
 NAME 09142013
 EXPNO 9
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20130914
 Time 16.44
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zgpr
 TD 65536
 SOLVENT Pyr
 NS 32
 DS 2
 SWH 8012.820 Hz
 FIDRES 0.122266 Hz
 AQ 4.0894465 sec
 RG 90.5
 DW 62.400 usec
 DE 6.50 usec
 TE 298.2 K
 D1 1.00000000 sec
 D12 0.00002000 sec
 TDO 1

==== CHANNEL f1 =====
 SFO1 400.1320005 MHz
 NUC1 1H
 P1 12.95 usec
 PLW1 15.00000000 W
 PLW9 0.00001000 W

F2 - Processing parameters
 SI 65536
 SF 400.1300000 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

