



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: C-002

Product Name: **CHLOROGENIC ACID**
(Caffeoylquinic acid)

CAS Number: [327-97-9]

Lot No.: 98001

Molecular Formula: C₁₆H₁₈O₉

Molecular Weight: 354.31

Melting Point: 203-207°C

Appearance: Off white powder

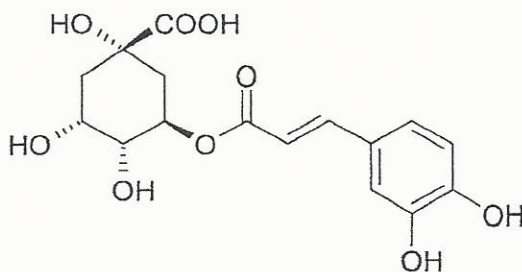
Solubility: Soluble in DMSO

TLC: Acetic acid:n-Butanol (1:1)

NMR Spectrum: Enclosed

Storage: Store in a cool, dry place

Purity(HPLC): 99.61%





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

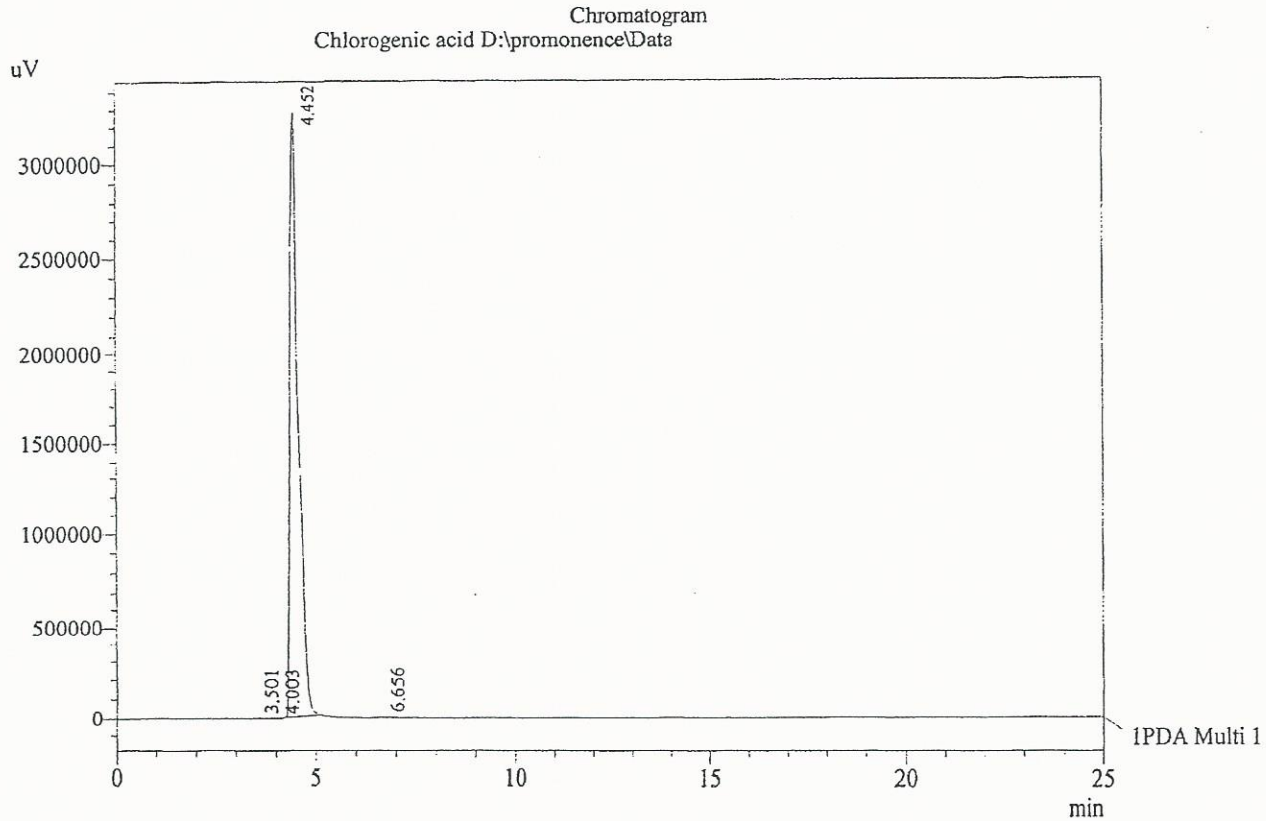
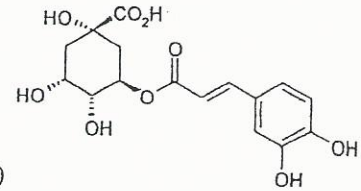
e-mail: chemical@indofinechemical.com

HPLC ANALYSIS

Acquired by : Sanjeev
Sample Name : Chlorogenic acid
Sample ID : Lot No:-98001
Injection Volume : 20 uL
Data Filename : 160413G.lcd
Method Filename : Linear Isocratic.M.lcm

Catalog No.: C-002
Product name: Chlorogenic acid
Lot No.: 98001

Column : LUNA C-18(2), (250mm x4.6mm 5.0μ)
Flow : 0.600 mL/min.
Mobile Phase : A(10% of 0.1% TFA in water) B(90% of Methanol)

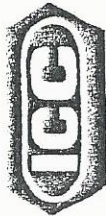


1 PDA Multi 1 / 225nm 4nm

PeakTable

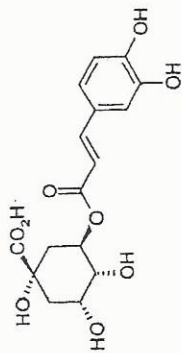
PDA Ch1 225nm 4nm

Peak#	Name	Ret. Time	Area	Area %	Relative Retention Time
1	RT:3.501	3.501	8942	0.02	0.79
2	RT:4.003	4.003	3889	0.01	0.90
3	Chlorogenic acid	4.452	48426565	99.61	1.00
4	RT:6.656	6.656	175312	0.36	1.50
Total			48614708	100.00	



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

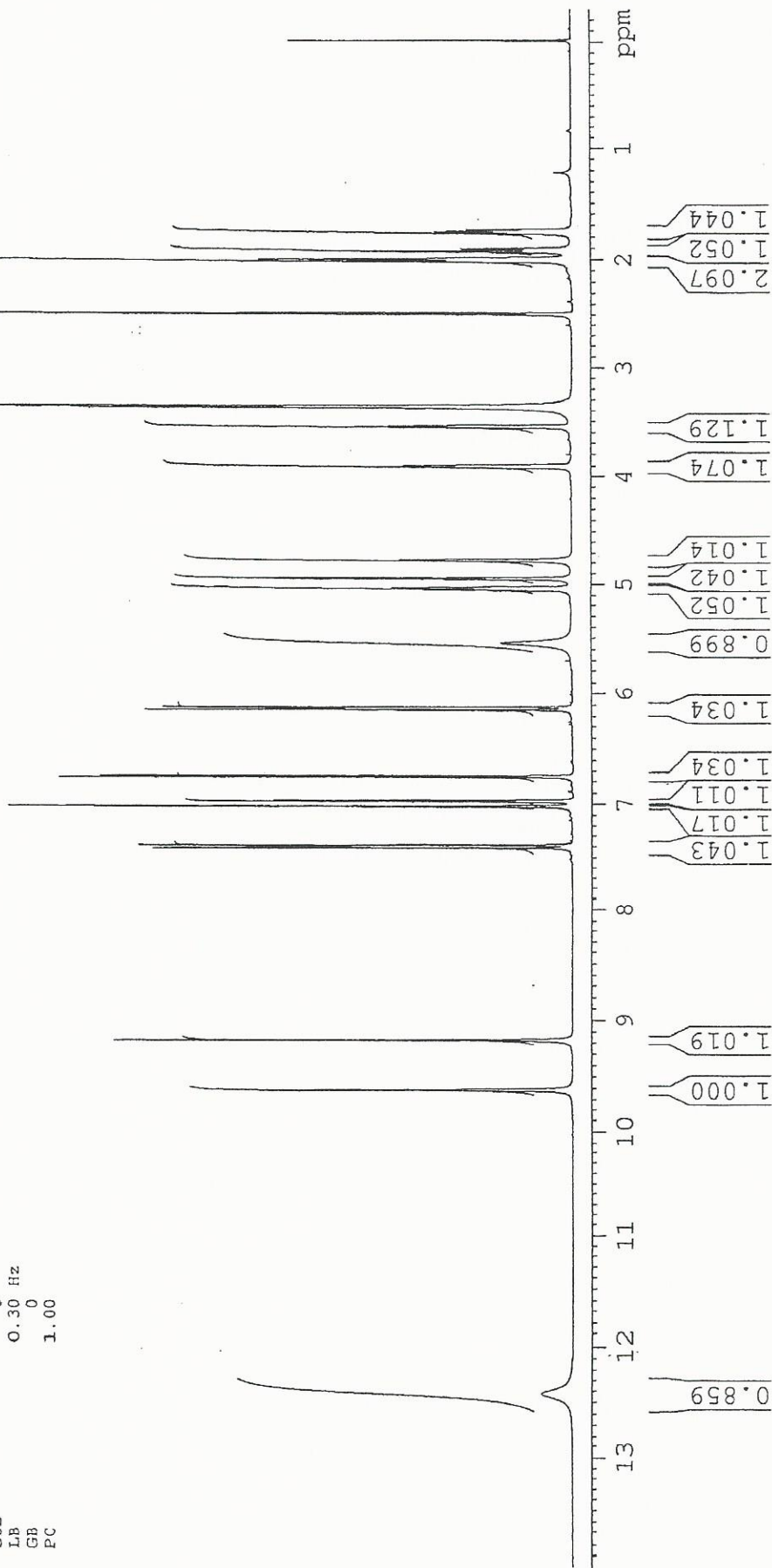
Catalog No.: C-002
Product name: Chlorogenic acid
Lot No.: 98001



SOLVENT DMSO
NS 16
DS 0
SWH 9803.922 Hz
FIDRES 0.326819 Hz
AQ 1.5299480 sec
RG 22.6
DW 51.000 usec
DE 6.00 usec
TE 298.2 K
D1 1.5000000 sec
TD0 1

1H IN DMSO
AVANCE-600

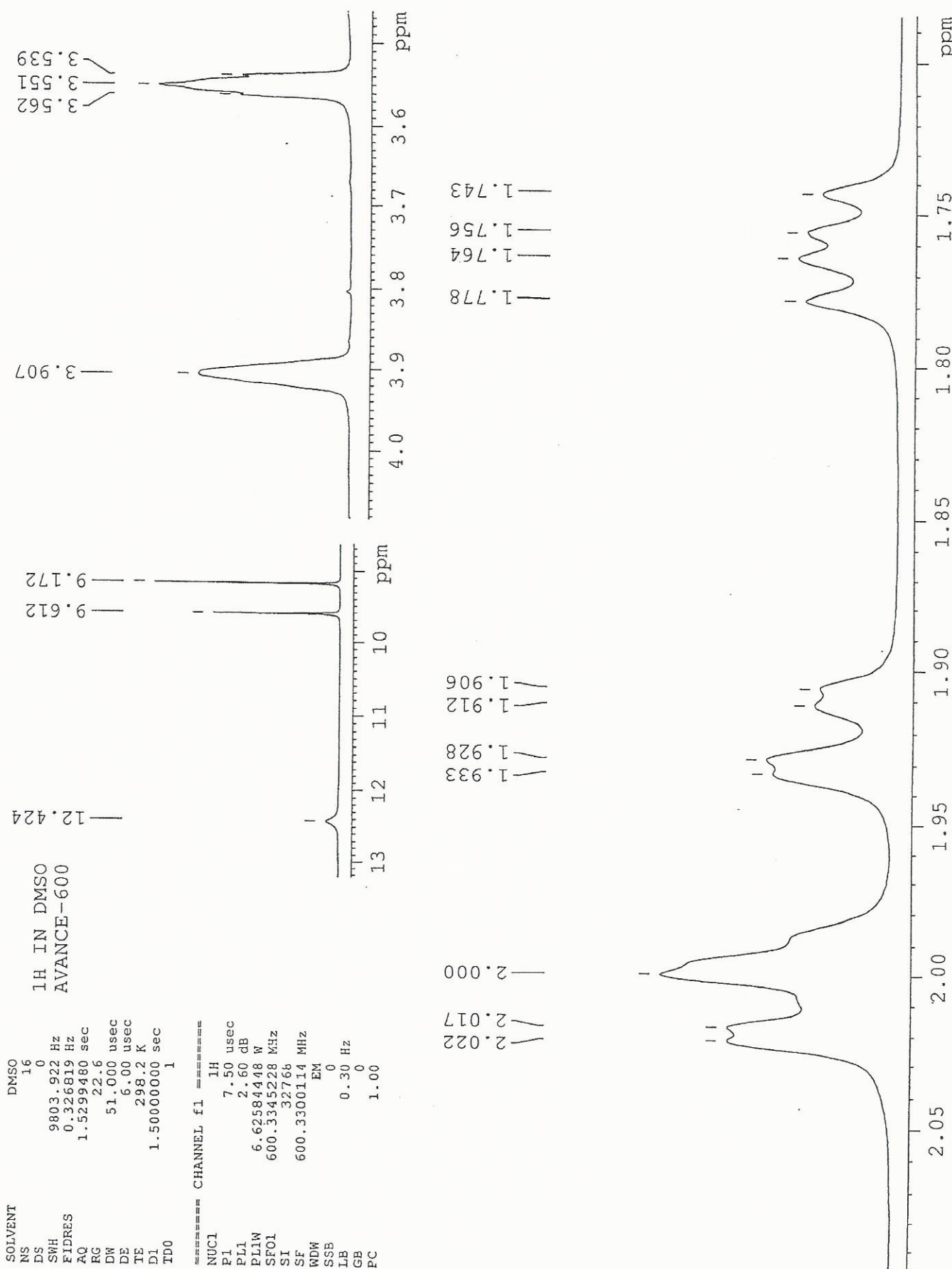
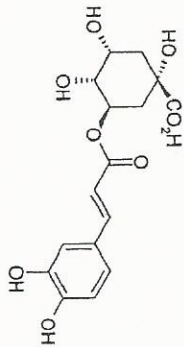
===== CHANNEL f1 =====
NUC1 1H
P1 7.50 usec
PL1 2.60 dB
PL1W 6.62584448 W
SF01 600.3345228 MHz
SI 32768
SF 600.3300114 MHz
EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00





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

Catalog No.: C-002
 Product name: Chlorogenic acid
 Lot No.: 98001



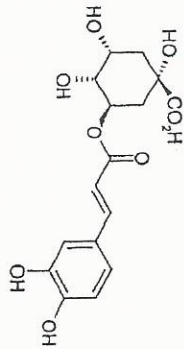
SOLVENT DMSO
 NS 16
 DS 0
 SWH 9803.922 Hz
 FIDRES 0.326819 Hz
 AQ 1.5299480 sec
 RG 22.6
 DR 51.000 usec
 DE 6.00 usec
 TE 298.2 K
 D1 1.50000000 sec
 TD0 1

===== CHANNEL f1 =====
 NUC1 1H
 P1 7.50 usec
 PL1 2.60 dB
 PL1W 6.62584448 W
 SF01 600.3345228 MHz
 SI 32766
 SF 600.3300114 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00



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

Catalog No.: C-002
 Product name: Chlorogenic acid
 Lot No.: 98001



SOLVENT DMSO
 NS 16
 DS 0
 SWH 9803.922 Hz
 FIDRES 0.326819 Hz
 AQ 1.5299480 sec
 RG 22.6
 DW 51.000 usec
 DE 6.00 usec
 TE 298.2 K
 D1 1.5000000 sec
 TD0 1

1H IN DMSO
 AVANCE-600

==== CHANNEL f1 =====
 NUC1 1H
 P1 7.50 usec
 PL1 2.60 dB
 PL1W 6.62584448 W
 SF01 600.3345228 MHz
 SI 32768
 SF 600.3300114 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

