



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

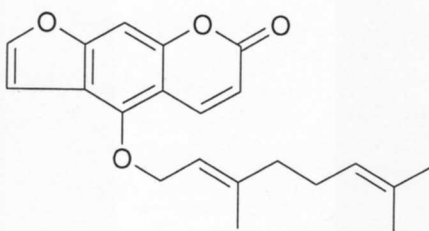
website: www.indofinechemical.com

e-mail: chemical@indofinechemical.com

CERTIFICATE OF ANALYSIS

CAT. No.: 19-335

<u>Product Name:</u>	BERGAMOTIN
<u>CAS No.:</u>	[7380-40-7]
<u>Lot Number:</u>	1204210
<u>Chemical Formula:</u>	C ₂₁ H ₂₂ O ₄
<u>Molecular Weight:</u>	338.4
<u>Melting Point:</u>	49-51°C
<u>Appearance:</u>	White powder
<u>Solubility:</u>	Soluble in Chloroform
<u>TLC:</u>	Hexane:Ethyl acetate (7:3)
<u>Storage:</u>	+2-8°C
<u>Moisture(KF):</u>	0.39%
<u>Purity (HPLC):</u>	99.18%





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

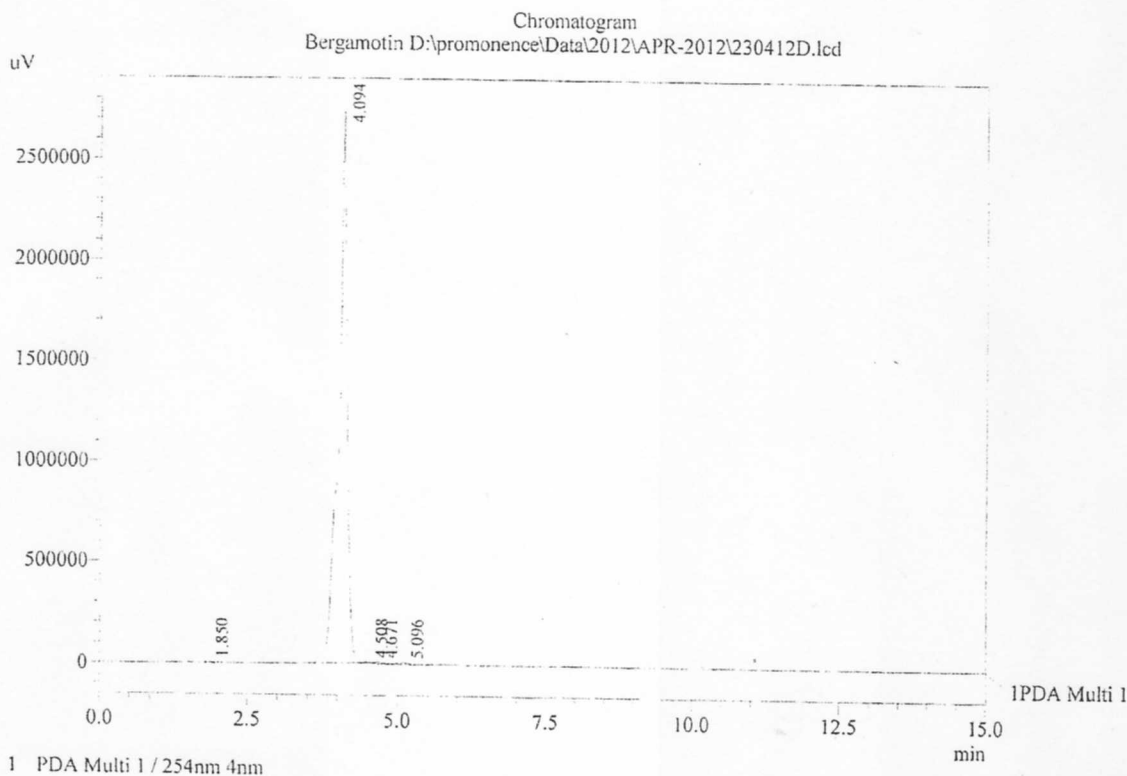
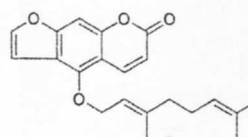
e-mail: chemical@indofinechemical.com

HPLC ANALYSIS

Acquired by : Sanjeev
Sample Name : Bergamotin
Sample ID : 145 gms Lot
Injection Volume : 20 uL
Data Filename : 230412D.lcd
Method Filename : Linear Isocratic.M.lcm

Catalog No.: 19-335
Product name: Bergamotin
Lot No.: 1204210

Date Acquired : 4/23/2012 12:25:38 PM
Data Processed : 4/23/2012 12:50:38 PM
Column : Inertsil ODS-3V, (150mm x4.6mm 5.0μ)
Flow : 1.200 mL/min.
Mobile Phase : A(10% water) B(90% of Acetonitrile)



PDA Ch1 254nm 4nm

PeakTable

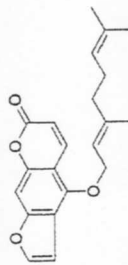
Peak#	Name	Ret. Time	Area	Area %	Relative Retention Time
1	RT:1.850	1.850	22652	0.09	0.45
2	Bergamotin	4.094	26300288	99.18	1.00
3	RT:4.508	4.508	32323	0.12	1.10
4	RT:4.671	4.671	57575	0.22	1.14
5	RT:5.096	5.096	104031	0.39	1.24
Total			26516869	100.00	



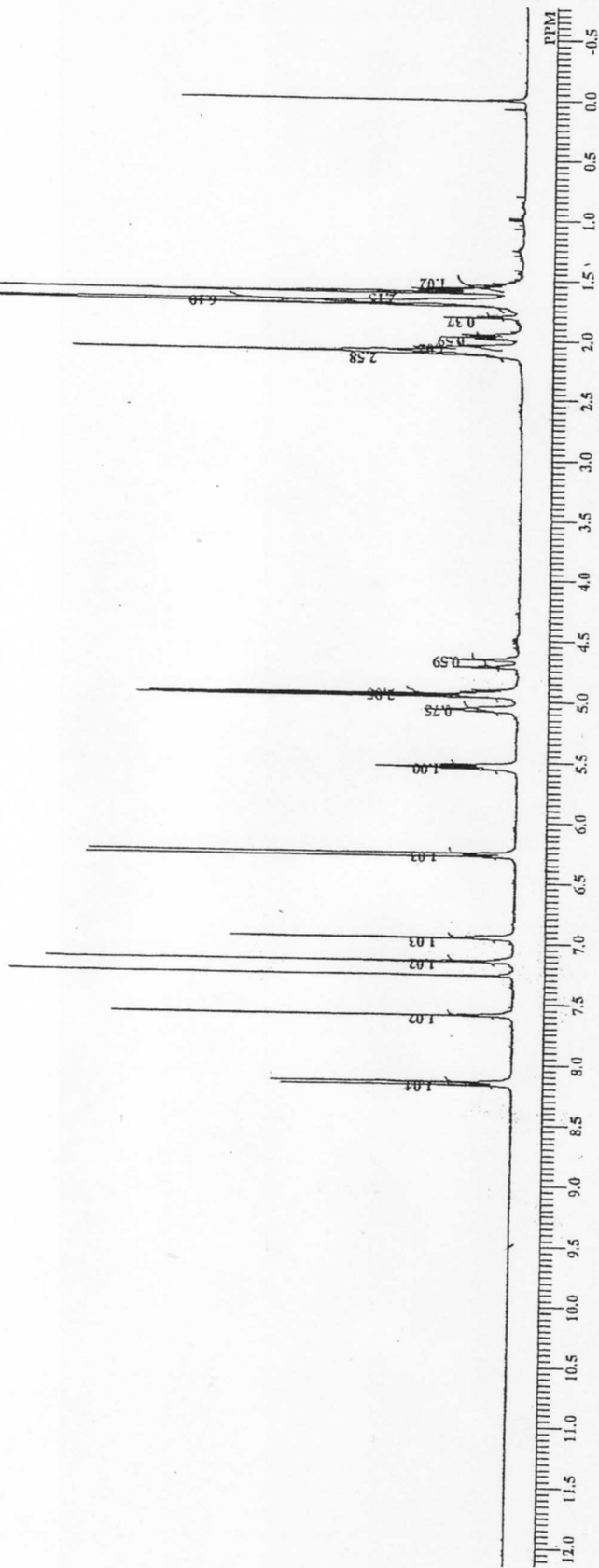
INDOFINE Chemical Company, Inc.
121 STRYKER LANE
BLDG. 30, SUITE 1
HILLSBOROUGH, NJ 08844

Catalog No.: 19-335
Product name: Bergamotin
Lot No.: 1204210

Brgt-145 1H NMR CDC13



DFILE Brgt-145 1H.als
COMNT Brgt-145 1H NMR CDC13
DATIM Mon Apr 23 14:52:12 2012
OBNUC 1H
EXMOD NON
OBFRQ 399.65 MHz
OBSET 124.00 KHz
OBFIN 10500.00 Hz
POINT 65536
FREQU 8000.00 Hz
SCANS 16
ACQIM 8.1920 sec
PD 3.0000 sec
PW1 5.60 usec
IRNUC 1H
CTEMP 15.7 c
SLVNT CDCL3
EXREF 0.00 ppm
RF 0.30 Hz
RGAIN 16

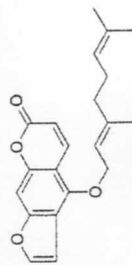




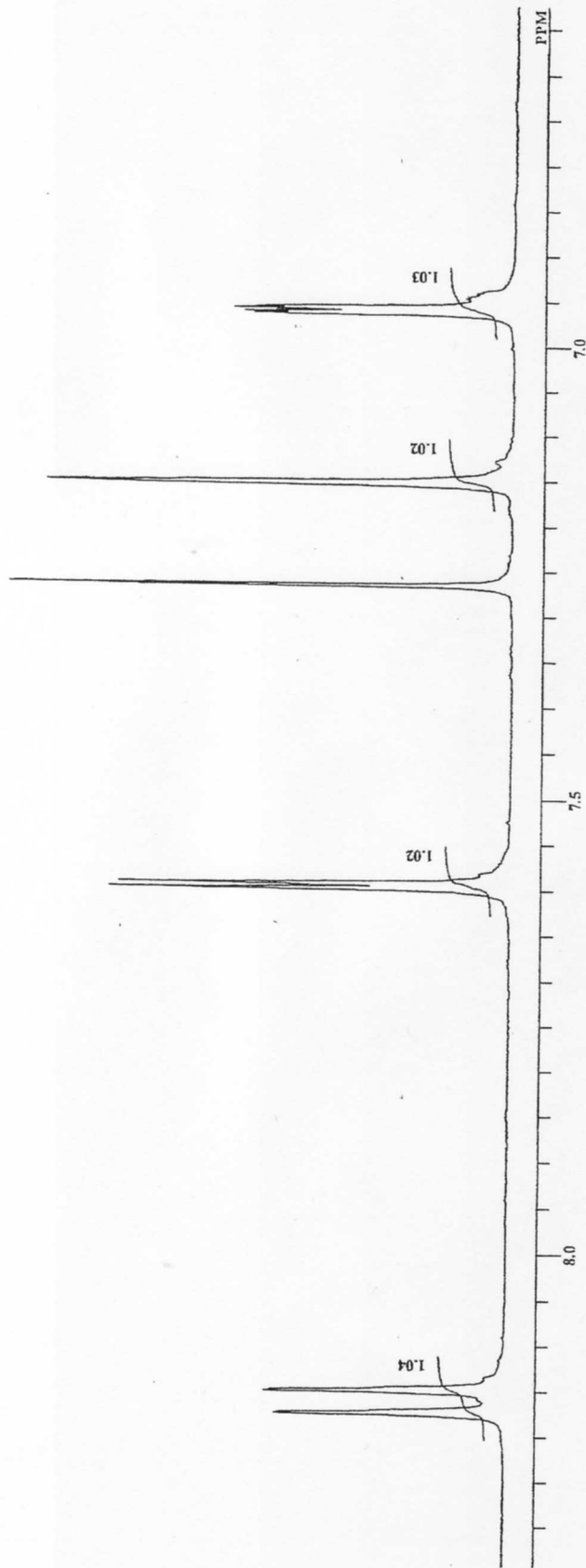
INDOFINE Chemical Company, Inc.
121 STRYKER LANE
BLDG. 30, SUITE 1
HILLSBOROUGH, NJ 08844

Catalog No.: 19-335
Product name: Bergamotin
Lot No.: 1204210

Brgt-145 1H NMR CDC13



DFILE Brgt-145 1H.als
COMNT Brgt-145 1H NMR CDC13
DATIM Mon Apr 23 14:52:12 2012
OBNUC 1H
EXMOD NON
OBERQ 399.65 MHz
OBSET 124.00 KHz
OBFIN 10500.00 Hz
POINT 65536
FREQU 8000.00 Hz
SCANS 16
ACQTM 8.1920 sec
PD 3.0000 sec
PVI 5.60 usec
IRNUC 1H 15.7 c
CTEMP CDCL3
SLVNT 0.00 ppm
EXREF 0.30 Hz
DF 16
RGAIN 16

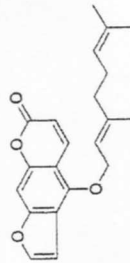




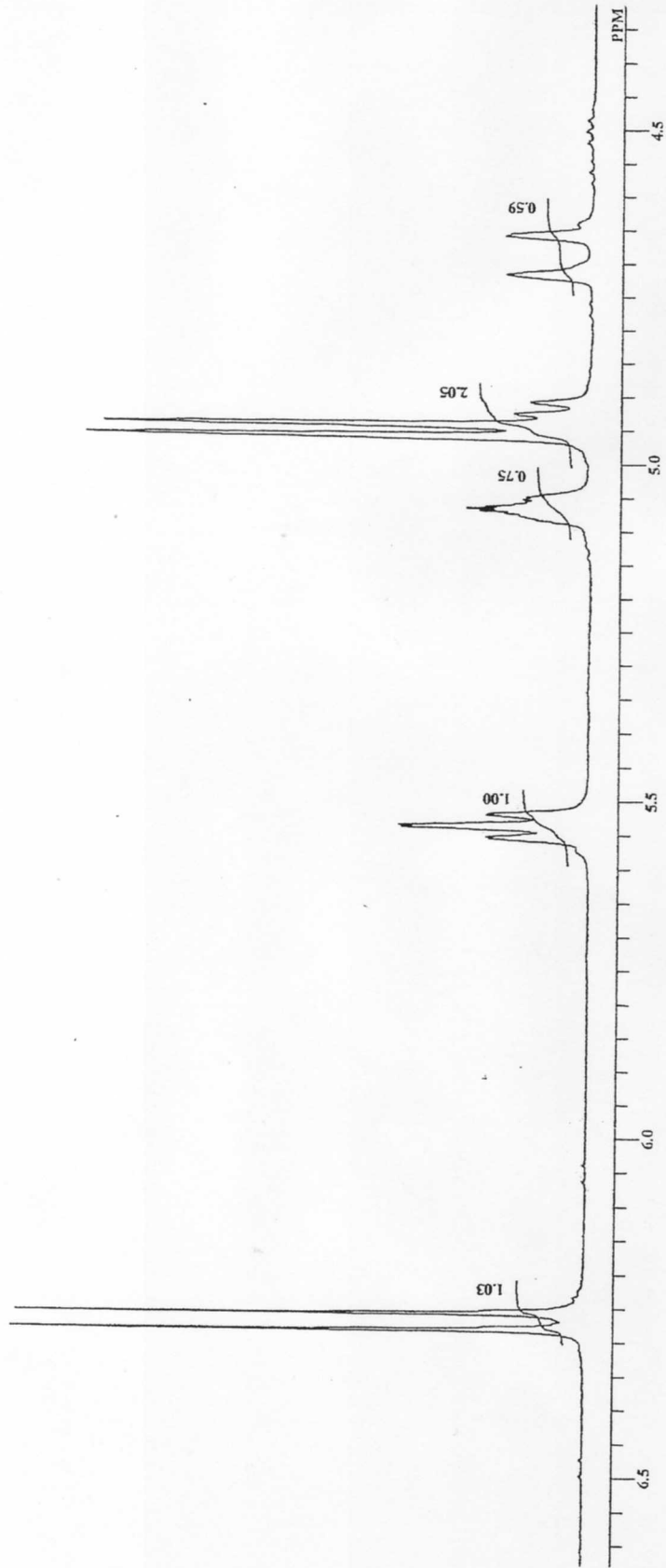
INDOFINE Chemical Company, Inc.
121 STRYKER LANE
BLDG. 30, SUITE 1
HILLSBOROUGH, NJ 08844

Catalog No.: 19-335
Product name: Bergamotin
Lot No.: 1204210

Brgt-145 1H NMR CDCl3



DFILE Brgt-145 1H.nls
COMNT Brgt-145 1H NMR CDCl3
DATIM Mon Apr 23 14:52:12 2012
OBNUC 1H
EXMOD NON
OBFRQ 399.65 MHz
OBSET 124.00 KHz
OBFIN 10500.00 Hz
POINT 65536
FREQU 80001.00 Hz
SCANS 16
ACQTM 8.1920 sec
PD 3.0000 sec
PWI 5.60 usec
IRNUC 1H
CTEMP 15.7 c
SLVNT CDCl3
EXREF 0.00 ppm
BF 0.30 Hz
RGAIN 16

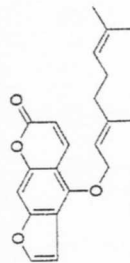




INDOFINE Chemical Company, Inc.
121 STRYKER LANE
BLDG. 30, SUITE 1
HILLSBOROUGH, NJ 08844

Catalog No.: 19-335
Product name: Bergamotin
Lot No.: 1204210

Brgt-145 1H NMR CDC13



DFILE Brgt-145 1H.nls
COMNT Brgt-145 1H NMR CDC13
DATIM Mon Apr 23 14:52:12 2012
OBNUC 1H
EXMOD NON
OBFRQ 399.65 MHz
OBSET 124.00 KHz
OBFIN 10500.00 Hz
POINT 65536
FREQU 8000.00 Hz
SCANS 16
ACQTM 8.1920 sec
PD 3.0000 sec
PWI 5.60 usec
IRNUC 1H
CTEMP 15.7 c
SLVNT CDCL3
EXREF 0.00 ppm
BF 0.30 Hz
RGAIN 16

