



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.: 06-031

Product:

URSOLIC ACID

(3b-Hydroxyurs-12-en-28-oic acid)

CAS Number:

[77-52-1]

Lot No.:

0406232

Molecular Formula:

$C_{30}H_{48}O_3$

Molecular Weight:

456.68

Melting Point:

>270°C

Appearance:

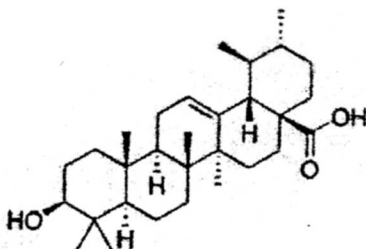
White fine powder

Solubility:

Soluble in DMSO

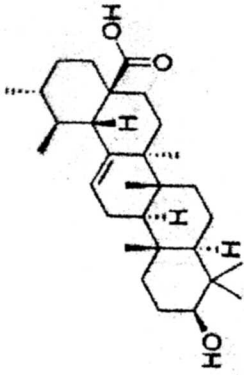
TLC:

Chloroform:Methanol (9:1) Iodine dip





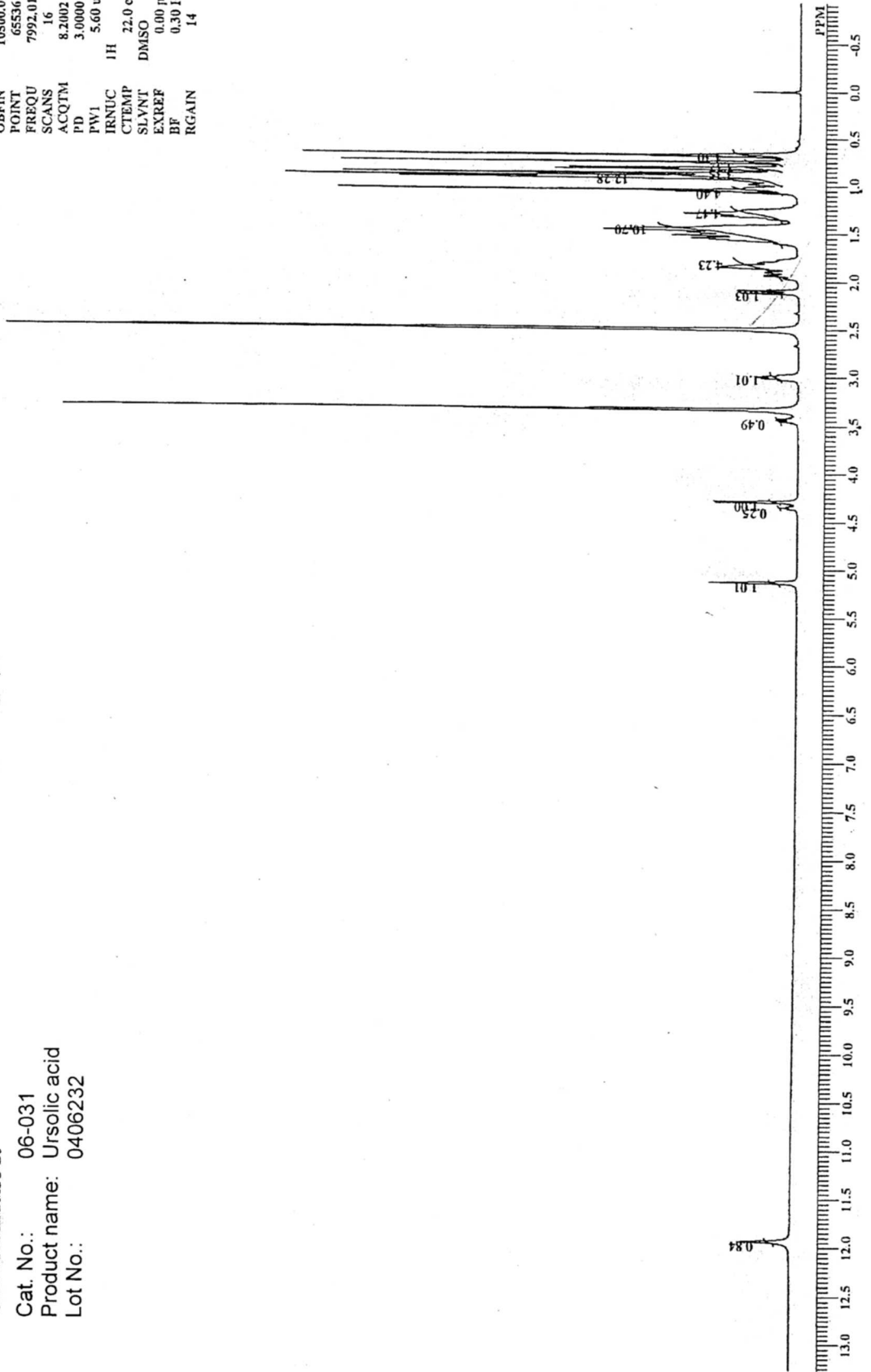
INDOFINE Chemical Company, Inc.
121 STRYKER LANE
BLDG. 30, SUITE 1
HILLSBOROUGH, NJ 08844



IFC-8 1H NMR DMSO-D6

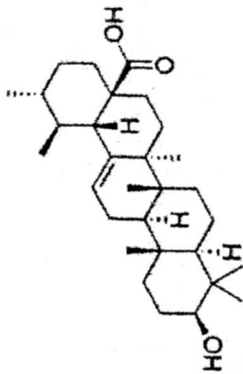
Cat. No.: 06-031
Product name: Ursolic acid
Lot No.: 0406232

DFILE IFC-8.als
COMNT IFC-8 1H NMR DMSO-D6
DATIM Tue Nov 22 21:10:52 2011
ORNUC 1H
EXMOD NON
OBFRQ 399.65 MHz
OBSET 124.00 KHz
OBFIN 10500.00 Hz
PPOINT 65536
FREQU 7992.01 Hz
SCANS 16
ACQTM 8.2002 sec
PD 3.0000 sec
PW1 5.60 usec
IRNUC 1H
CTEMP 22.0 c
SLVNT DMSO
EXREF 0.00 ppm
BF 0.30 Hz
RGAIN 14





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



1FC-8 1H NMR DMSO-D6

Cat. No.: 06-031

Product name: Ursolic acid

Lot No.: 0406232

DFILE 1FC-8.als
COMNT 1FC-8 1H NMR DMSO-D6
DATIM Tue Nov 22 21:10:52 2011
OBNUC 1H
EXMOD NON
OBFRQ 399.65 MHz
OBSET 124.00 KHz
OBFIN 10500.00 Hz
POINT 65536
FREQU 7992.01 Hz
SCANS 16
ACQTM 8.2002 sec
PD 3.0000 sec
PWI 5.60 usec
IRNUC 1H
CTEMP 22.0 c
SLVNT DMSO
EXREF 0.00 ppm
BF 0.30 Hz
RGAIN 14

