



# 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](http://www.indofinechemical.com)

e-mail: [chemical@indofinechemical.com](mailto:chemical@indofinechemical.com)

## CERTIFICATE OF ANALYSIS

Catalog Number: A-003

Product Name: **ANDROGRAPHOLIDE**

CAS Number: [5508-58-7]

Lot Number: 0407182

Chemical Formula: C<sub>20</sub>H<sub>30</sub>O<sub>5</sub>

Molecular Weight: 350.46

Melting Point: 230-234°C

Appearance: White crystalline powder

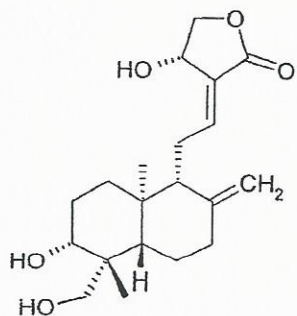
Solubility: Soluble in DMSO

TLC: Chloroform:Methanol (9:1)

NMR Spectrum: Enclosed (Confirms to the structure)

Storage: Cool dry place

Purity (HPLC): 99.60%





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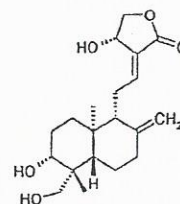
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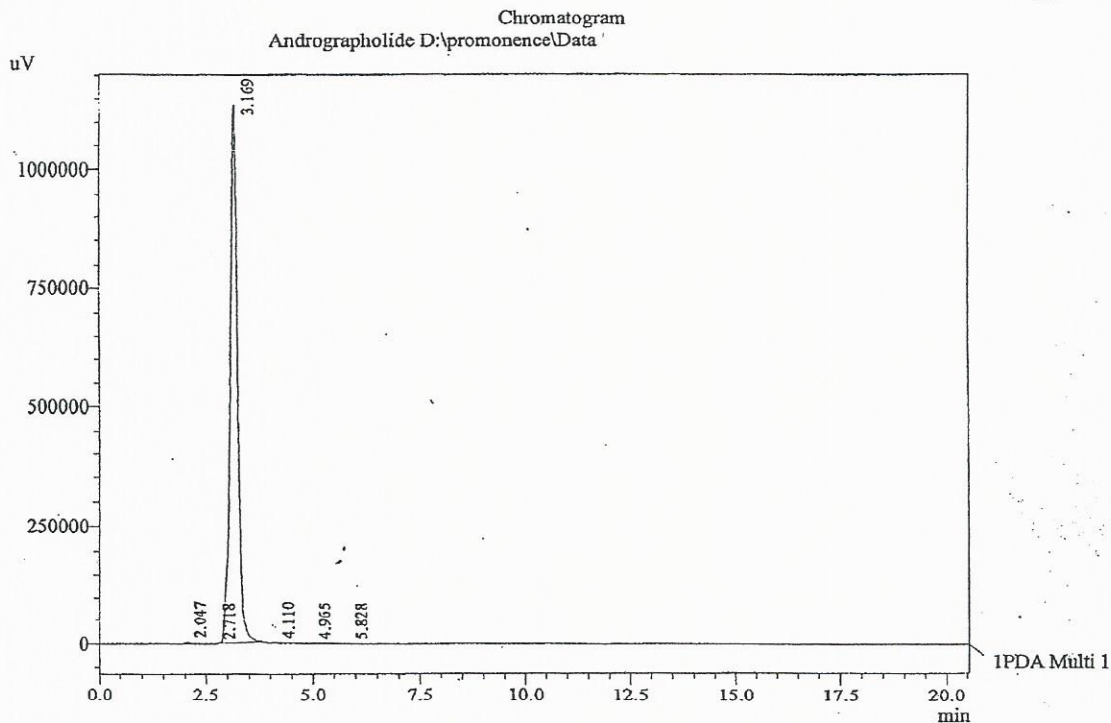
## HPLC ANALYSIS

Acquired by : Sanjeev  
Sample Name : Andrographolide  
Sample ID : Lot No: 0407182  
Injection Volume : 20 uL  
Data Filename : 130813H.lcd  
Method Filename : Linear Isocratic.M.lcm

Catalog No.: A-003  
Product Name: Andrographolide  
Lot No.: 0407182



Column : LUNA C-18(2), (250mm x4.6mm 5.0μ)  
Flow : 1.000 mL/min.  
Mobile Phase : A(10% of 0.1% OPA in water) B(90% of Methanol)



1 PDA Multi 1 / 230nm 4nm

PeakTable

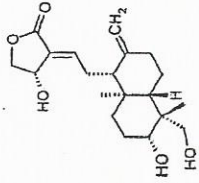
PDA Ch1 230nm 4nm

Peak#	Name	Ret. Time	Area	Area %	Relative Retention Time
1	RT:2.047	2.047	21678	0.16	0.65
2	RT:2.718	2.718	1646	0.01	0.86
3	Andrographolide	3.169	13334189	99.60	1.00
4	RT:4.110	4.110	14974	0.11	1.30
5	RT:4.965	4.965	12183	0.09	1.57
6	RT:5.828	5.828	3065	0.02	1.84
Total			13387736	100.00	



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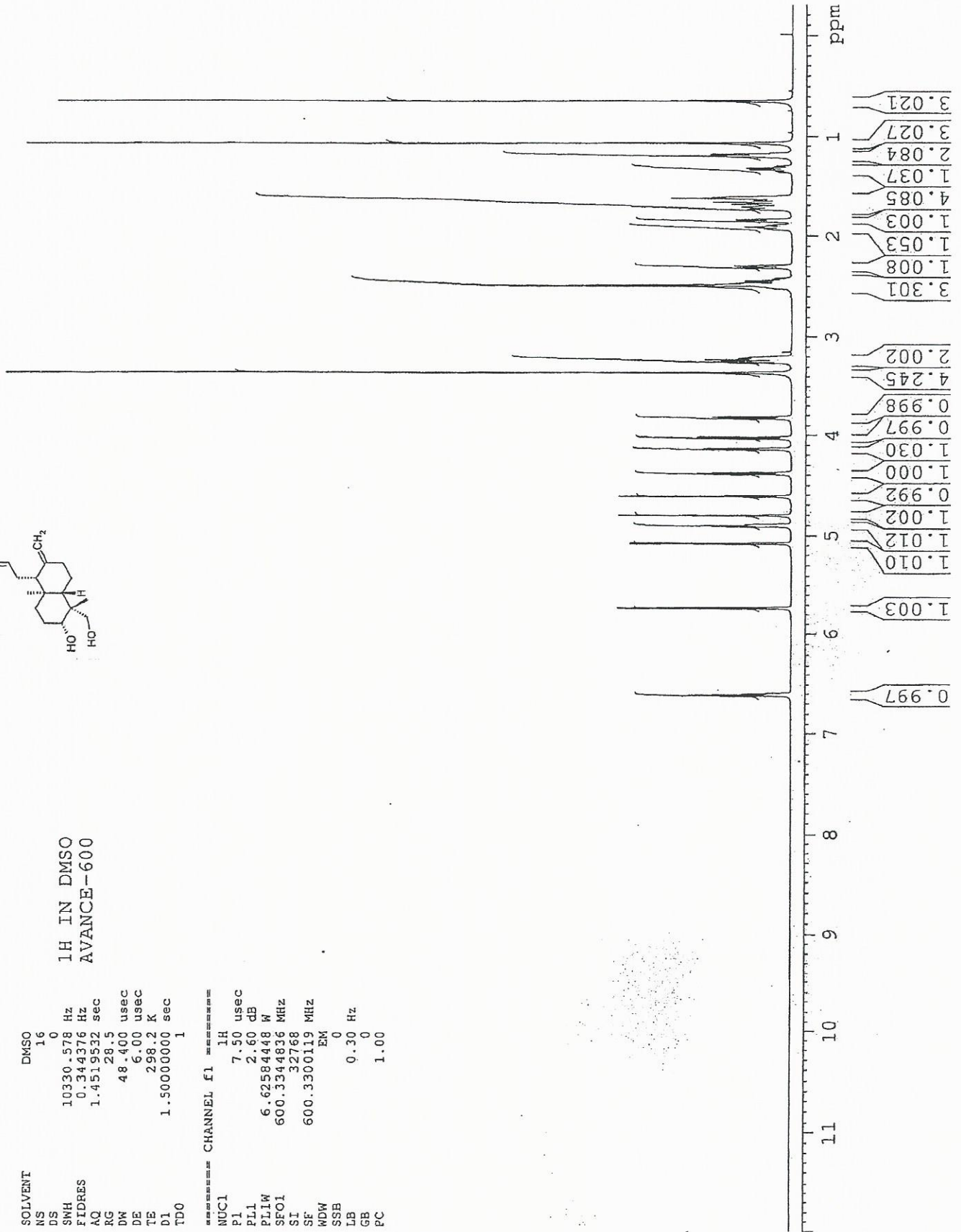
Catalog No.: A-003  
 Product Name: Andrographolide  
 Lot No.: 0407182



SOLVENT DMSO  
 NS 16  
 DS 0  
 SMH 10330.578 Hz  
 FIDRES 0.344376 Hz  
 AQ 1.4519532 sec  
 RG 28.5  
 DW 48.400 usec  
 DE 6.00 usec  
 TE 298.2 K  
 D1 1.50000000 sec  
 TDO 1

1H IN DMSO  
 AVANCE-600

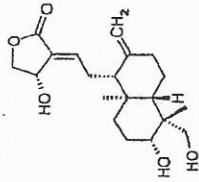
\*\*\*\*\* CHANNEL f1 \*\*\*\*\*  
 NUC1 1H  
 P1 7.50 usec  
 PL1 2.60 dB  
 PL1W 6.62584448 W  
 SFO1 600.3344836 MHz  
 SI 32768  
 SF 600.3300119 MHz  
 WDW EM  
 SSB 0  
 LB 0.30 Hz  
 GB 0  
 PC 1.00



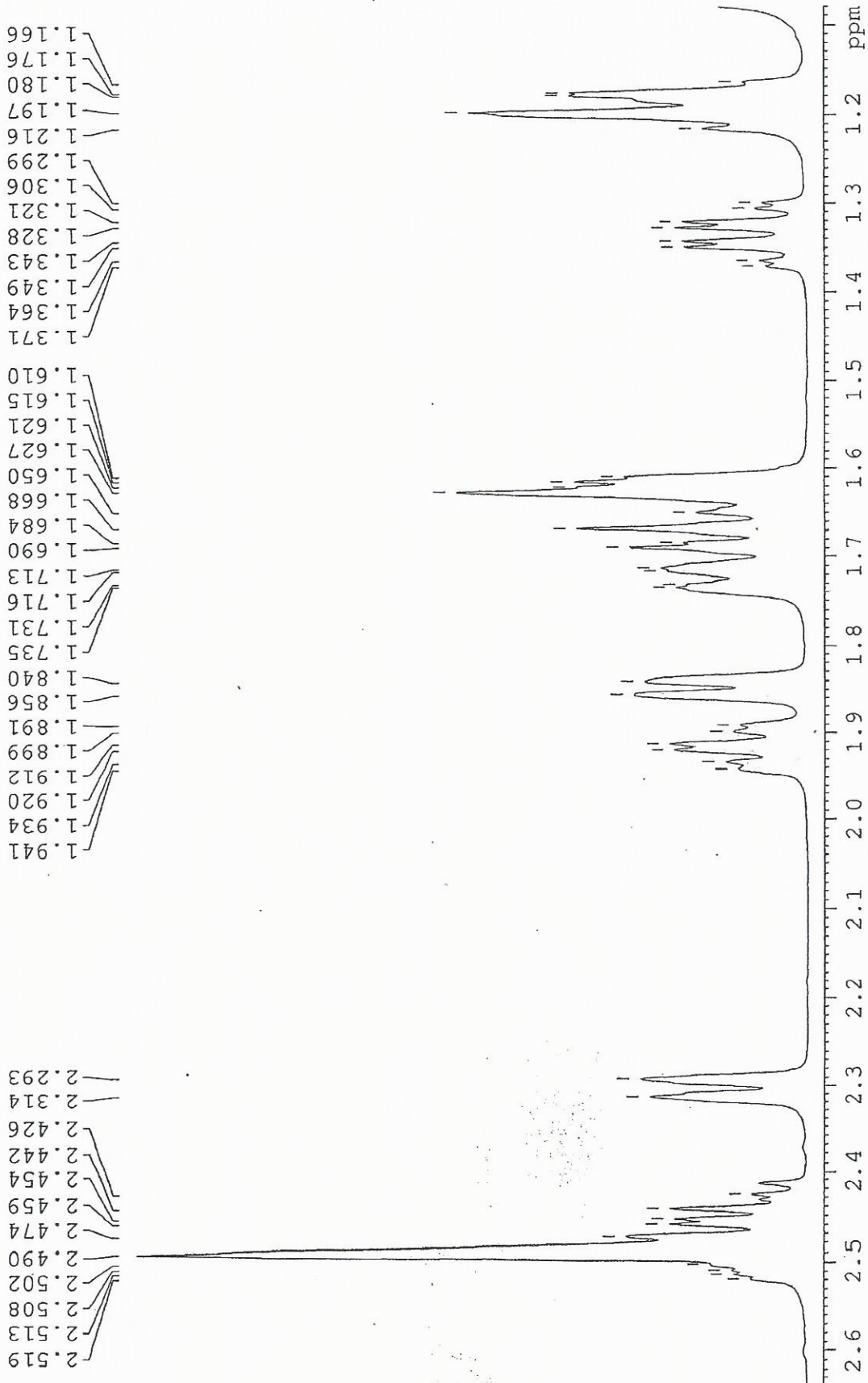


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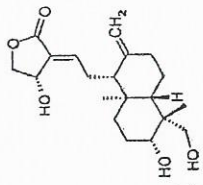
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