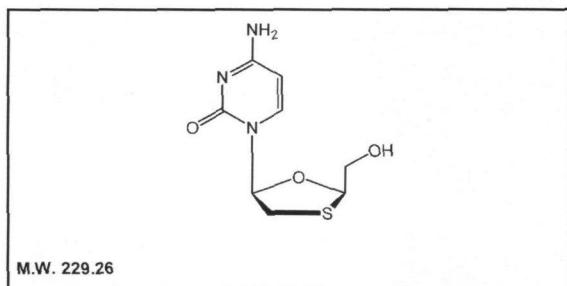




## Product Data Sheet

**M-975**

### (-)- $\beta$ -L-2',3'-Dideoxy-3'-thiacytidine

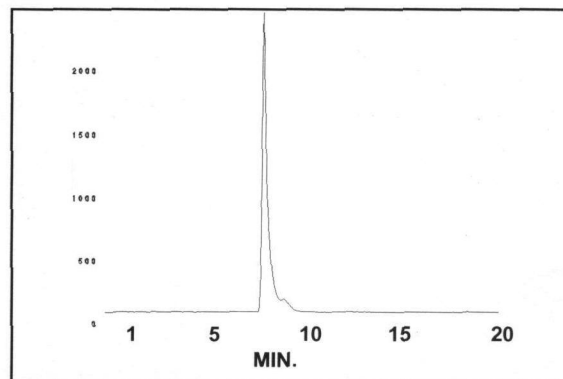


**Lot #:** 208-126-000-A-20010201-Q

**Packaged as:** Solid

**Date of Analysis:** May 26, 2009

**Chemical Purity @ 271nm:** 98.7%



HPLC ANALYSIS LOT 208-126-000-A-20010201-Q  
File Name: int30389 Date and Time: 5/26/2009 4:05:44 PM  
Unit 3 UV

Peak #	Area %	Time	Area
1	98.71	8.11330	4628.31505
2	1.29	9.14330	60.44462
Totals	100.00		4688.75967

**Stability and Storage Recommendation:** The rate of decomposition is approximately .1%/month for the first six months after purification when stored at 0-5°C.

**Product Warranty:** Stated on the reverse side of this Product Data Sheet.

**Caution:** Not For Use In Humans Or Clinical Diagnosis. This product is intended for investigational or manufacturing use only. It is pharmaceutically unrefined and is not intended for use in humans. Responsibility for its use in humans, as a diagnostic reagent, and compliance with federal laws rests solely with the purchaser.

**M-975**

**(-)-β-L-2',3'-Dideoxy-3'-thiacytidine**

**Lot 208-126-000-A-20010201-Q**

**A) All chromatograms were run using the HPLC method described on the Product Data Sheet.**

**Concentrations and volumes:**

(-)-β-L-2',3'-Dideoxy-3'-thiacytidine concentration was 0.5 mg/ml.

Volume of (-)-β-L-2',3'-Dideoxy-3'-thiacytidine injection was 30 μl.

Volume of blank injection was 30 μl.

**B) Mass spectrometry - Positive mode**

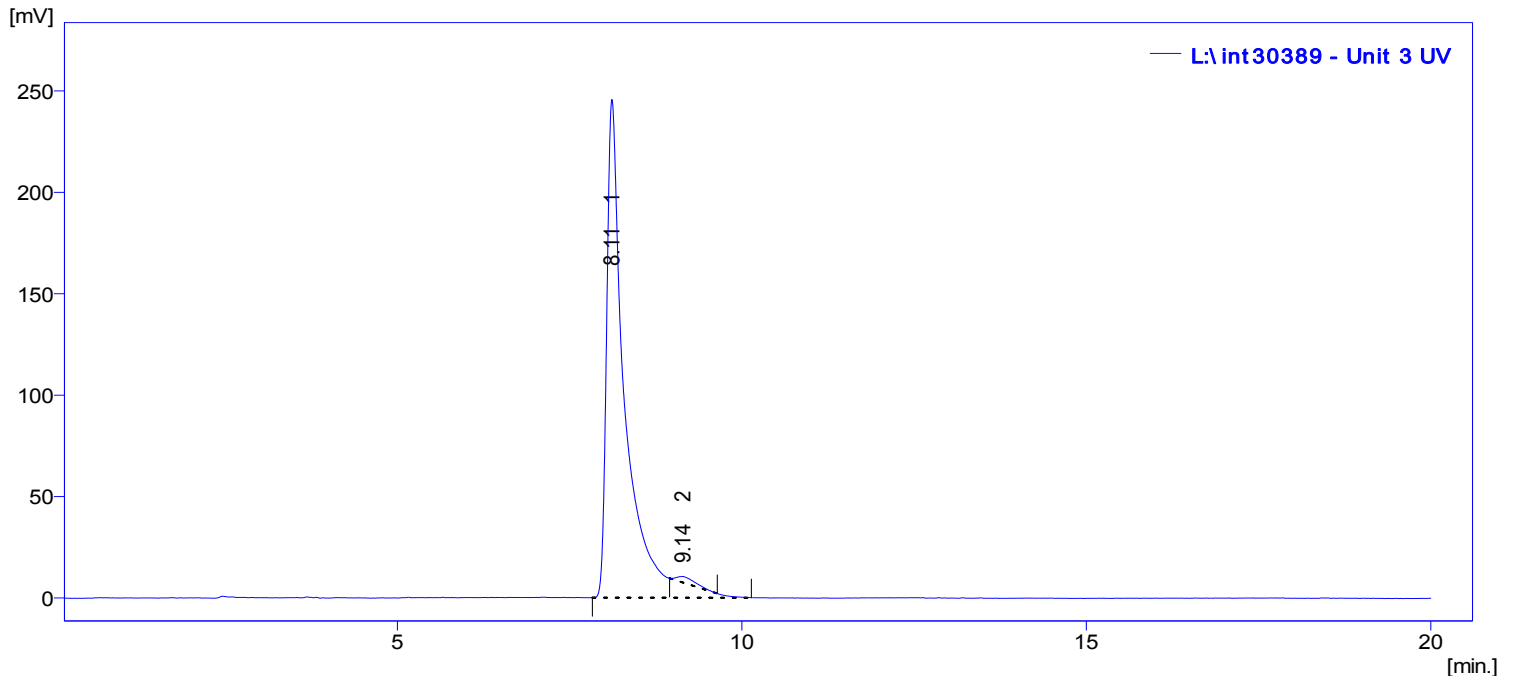
**C) NMR**

**D) UV spectrum**

**M-975**  
**(-)-β-L-2',3'-Dideoxy-3'-thiacytidine**  
**Lot 208-126-000-A-20010201-Q**

Chromatogram Info:

File Name	: L:\int30389	File Created	: 4/22/2014 3:20:40 PM
Origin	: Acquired, Acquisition started 5/26/2009 3:45:46 PM	Acquired Date	: 5/26/2009 4:05:44 PM
Project	: Work1	By	: Administrator
Method	: unit3-20minrun	By	: Administrator
Description	: UV trace of (-)-β-L-2',3'-Dideoxy 3'-thiacytidine	Modified	: 4/22/2014 3:26 PM
Created	: 6/26/2007 10:29 AM		
Column	:	Detection	: UV 271nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



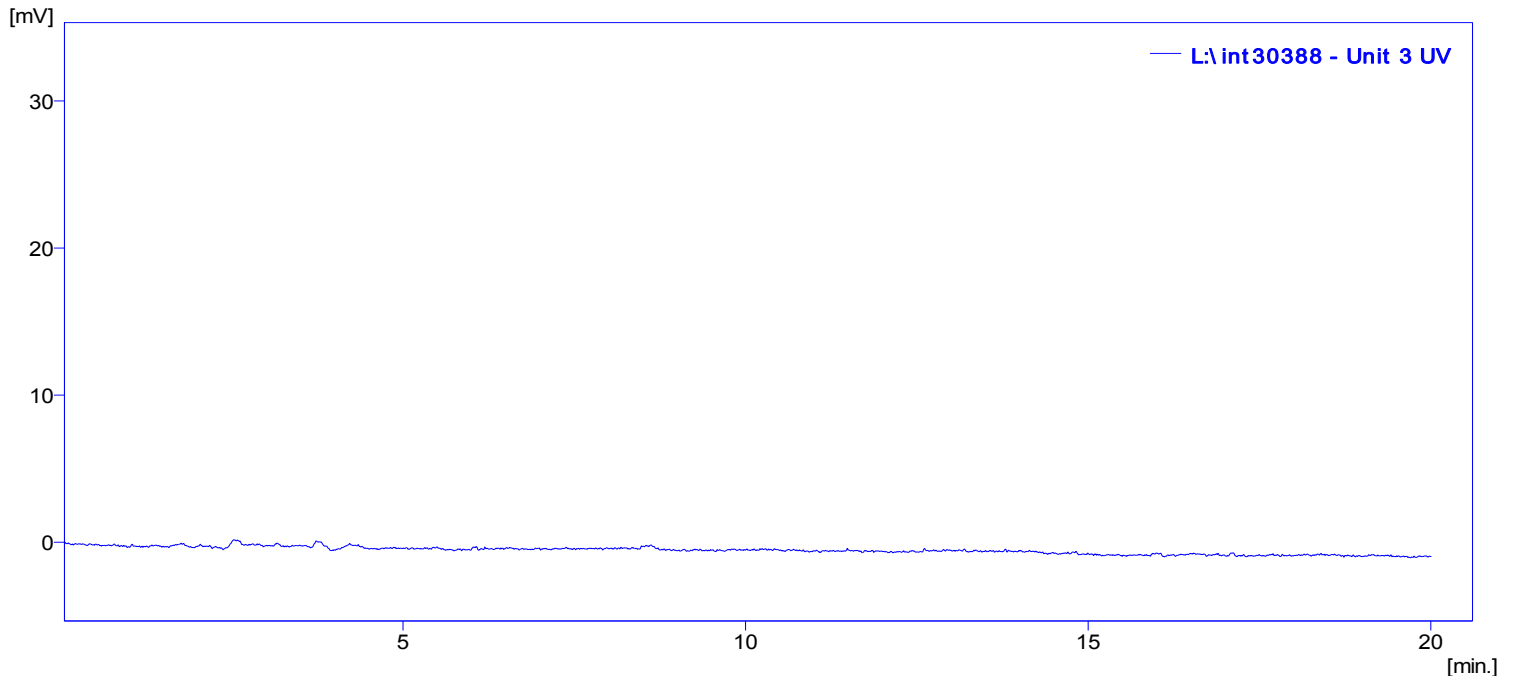
Result Table (Uncal - L:\int30389 - Unit 3 UV)

Compound Name	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	W05 [min]	Efficiency [th.pl]	Eff/I [t.p./m]	Resolution [-]	Symmetry/Tailing [-]	Response Factor
1	8.11	4627.658	245.63	98.71	98.8	0.22	7535	150693		4.07	
2	9.14	60.696	3.05	1.29	1.2	0.30	5146	102922	2.34	1.69	
Total		4688.354	248.68	100.00	100.0						

**M-975**  
**(-)-β-L-2',3'-Dideoxy-3'-thiacytidine**  
**Lot 208-126-000-A-20010201-Q**

Chromatogram Info:

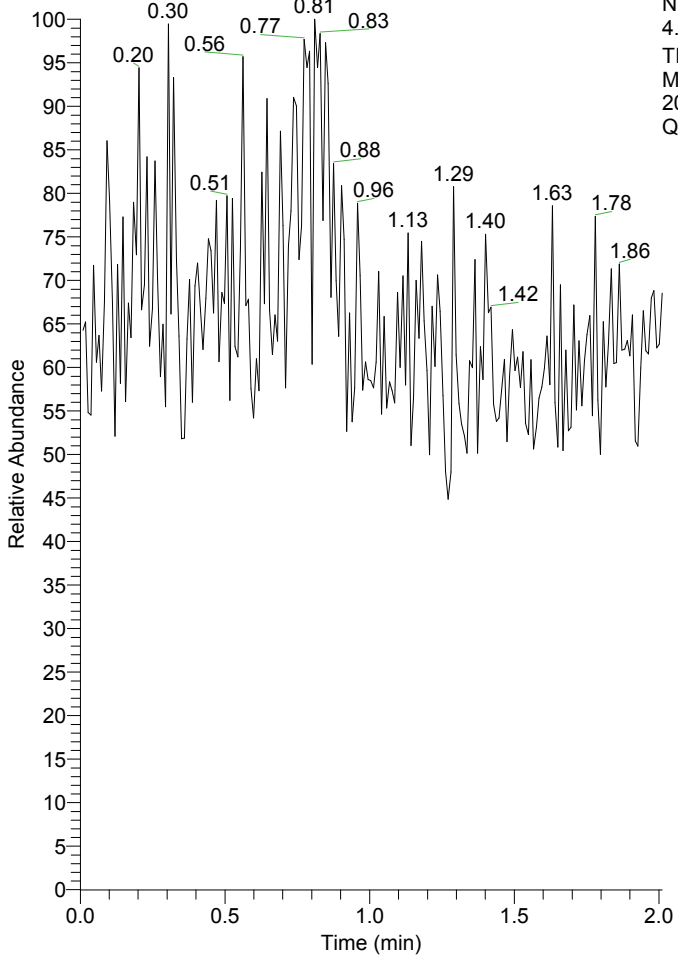
File Name	: L:\int30388	File Created	: 4/22/2014 3:20:40 PM
Origin	: Acquired, Acquisition started 5/26/2009 3:07:03 PM	Acquired Date	: 5/26/2009 3:27:02 PM
Project	: Work1	By	: Administrator
Method	: unit3-20minrun	By	: Administrator
Description	: UV trace of blank injection	Modified	: 4/22/2014 3:27 PM
Created	: 6/26/2007 10:29 AM		
Column	:	Detection	: UV 271nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



*Result Table (Uncal - L:\int30388 - Unit 3 UV)*

Compound Name	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	W05 [min]	Efficiency [th.pl]	Eff/l [t.p./m]	Resolution [-]	Symmetry/Tailing [-]	Response Factor
No peak to report											

RT: 0.00 - 2.01



NL: 4.35E8  
TIC MS  
M975-20010201-Q

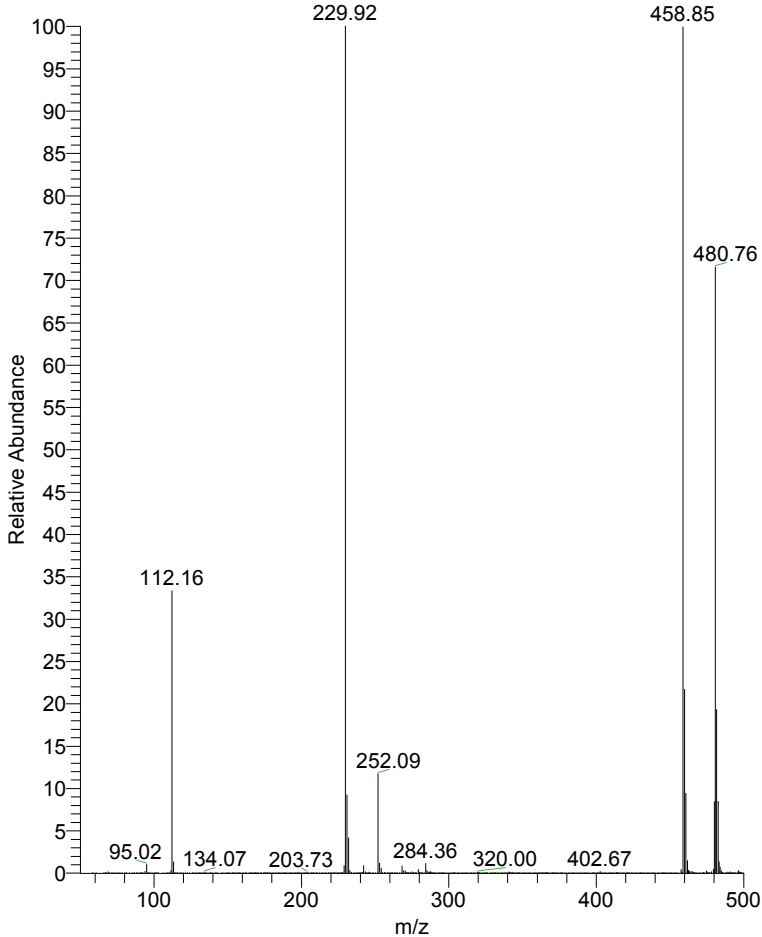
M975-20010201-Q#1-218 RT: 0.01-2.01 AV:

T: + c NSI Full ms [50.00-500.00]

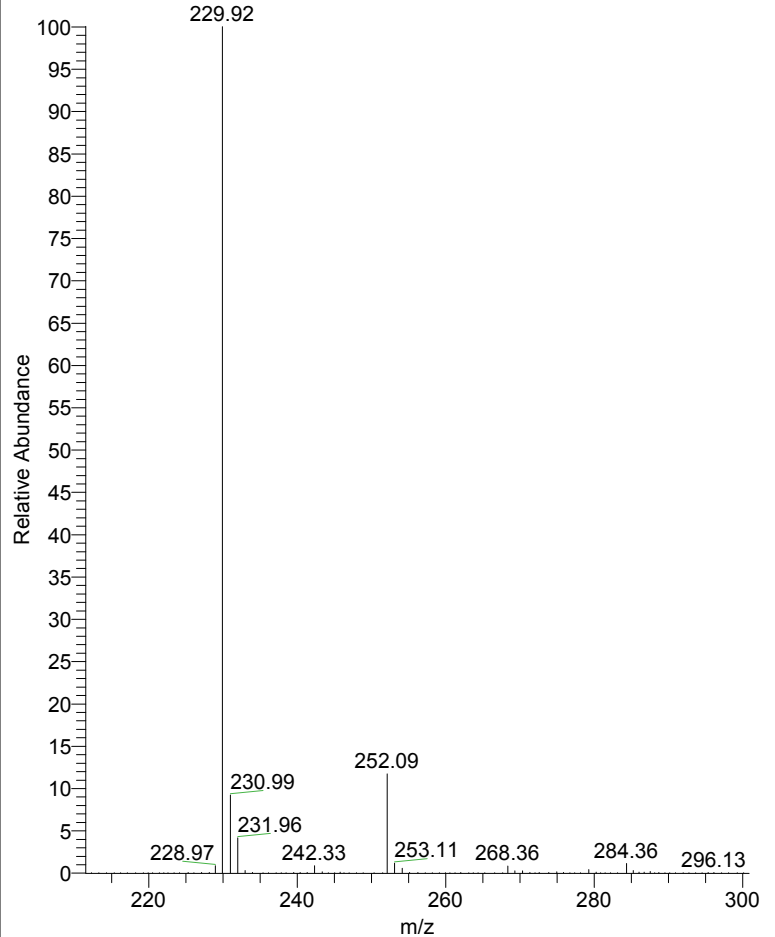
m/z = 219.82-268.13

m/z	Intensity	Relative
228.97	567487.4	0.84
229.92	67900472.3	100.00
230.99	6240668.4	9.19
231.96	2818092.7	4.15
232.96	182452.9	0.27
233.97	35801.8	0.05
240.38	49033.0	0.07
241.35	41323.3	0.06
242.33	583664.8	0.86
243.38	94405.9	0.14
245.76	61949.0	0.09
252.09	7954427.4	11.71
253.11	778573.4	1.15
254.13	370177.1	0.55
255.13	46916.1	0.07
256.23	35401.7	0.05
262.02	30585.9	0.05

M975-20010201-Q #1-218 RT: 0.01-2.01 AV: 218 NL: 6.79E7  
T: + c NSI Full ms [50.00-500.00]



M975-20010201-Q #1-218 RT: 0.01-2.01 AV: 218 NL: 6.79E7  
T: + c NSI Full ms [50.00-500.00]



M975 1H NMR in D2O  
Batch 20010201-Q



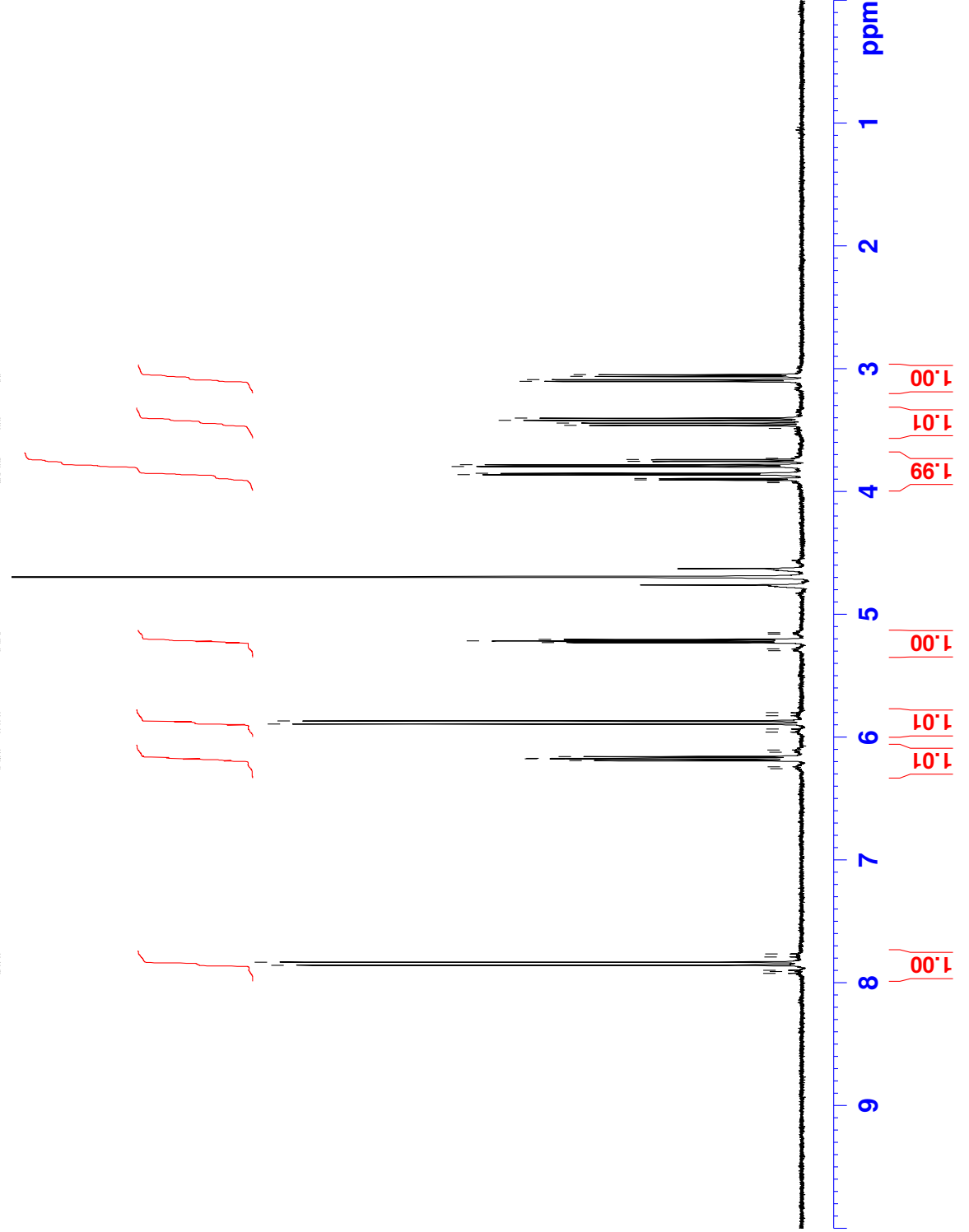
7.224  
7.909  
7.899  
7.859  
7.833  
7.791  
7.766  
6.258  
6.242  
6.192  
6.177  
6.173  
6.159  
6.124  
6.106  
5.959  
5.934  
5.894  
5.869  
5.826  
5.801  
5.297  
5.282  
5.231  
5.217  
5.205  
5.162  
5.150  
3.929  
3.917  
3.906  
3.894  
3.863  
3.852  
3.797  
3.782  
3.755  
3.740  
3.730  
3.486  
3.462  
3.443  
3.421  
3.402  
3.103  
3.089  
3.063  
3.048

Current Data Parameters  
NAME M975  
EXPNO 1  
PROCNO 1

F2 - Acquisition Parameter  
Date\_ 20090302  
Time 12.35  
INSTRUM spect  
PROBHD 5 mm DUX 3H-1H  
PULPROG zg30  
TD 65536  
SOLVENT D2O  
NS 500  
DS 2  
SWH 6172.839 Hz  
FIDRES 0.094190 Hz  
AQ 5.3084660 se  
RG 362  
DW 81.000 us  
DE 6.00 us  
TE 300.0 K  
D1 1.00000000 se  
TD0 1

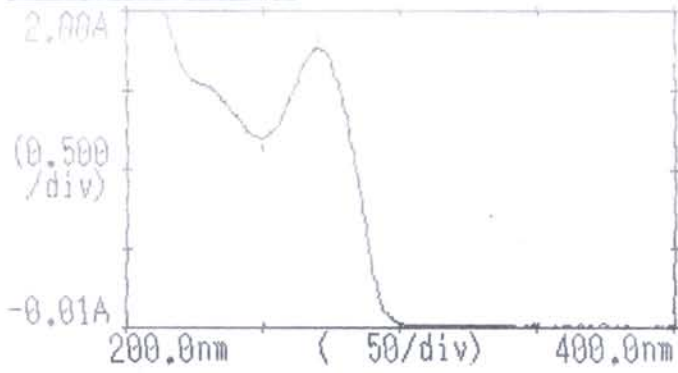
==== CHANNEL f1 =====  
NUC1 1H  
P1 10.25 us  
PL1 0.00 dB  
SFO1 300.1318534 MH

F2 - Processing parameters  
SI 32768  
SF 300.1300000 MH  
WDW no  
SSB 0  
LB 0.00 Hz  
GB 0  
PC 1.00



26/May/09 15:34:00

Data Processing



PrintOut Peak Valley

26/May/09 15:34:36

Peak detection

Abscis.	ABS	Abscis.	ABS
271.0	1.769		

Graph PrintOut Valley