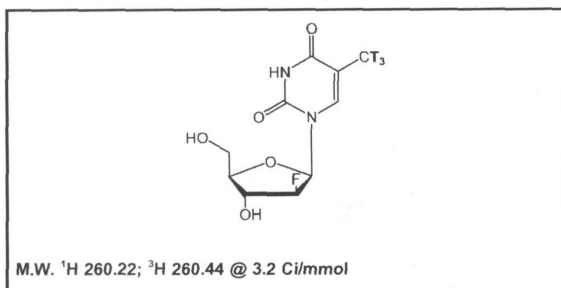




Product Data Sheet

MT-1769

1-(2-Deoxy-2-fluoro-β-D-arabinofuranosyl)-5-methyluracil, [methyl-³H]-



Lot #: 237-001-0032-A-20080416-TN

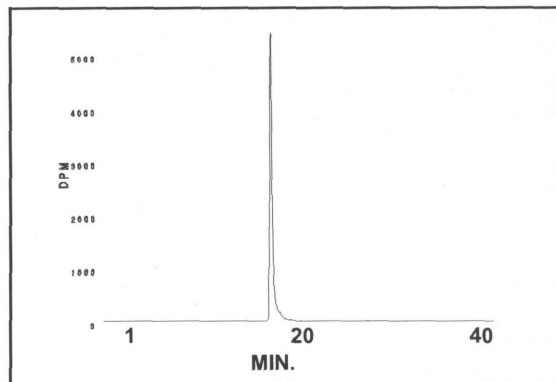
Specific Activity: 3.2 Ci/mmol

Concentration: 1.0 mCi/ml; 81.39 μg/ml

Packaged in: Ethanol : water (1 : 1) solution

Date of Analysis: February 20, 2012

Radiochemical Purity: 99.2%



HPLC ANALYSIS LOT 237-001-0032-A-20080416-TN
File Name: int21521 Date and Time: 2/20/2012 10:26:43 A
Unit 2 Radio

Peak #	Area %	Time	Area
1	0.14	14.69330	14.73723
2	99.27	17.14670	10415.48312
3	0.17	18.08000	17.60563
4	0.14	18.61330	14.24885
5	0.29	19.18670	29.99462
Totals	100.00		10492.06945

Stability and Storage Recommendation: The rate of decomposition is approximately 1%/month for the first six months after purification when stored at -20°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.

MT-1769

1-(2-Deoxy-2-fluoro-β-D-arabinofuranosyl)-5-methyluracil, [methyl-³H(N)]-

Lot 237-001-0032-A-20080416-TN

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

Concentrations and volumes:

Standard solution concentration was 1.0 mg/ml.

³H Material concentration was 0.2 mCi/ml.

Volume of standard alone injection was 1.0 µl.

Volume of ³H Material alone injection was 1.0 µl.

Co-injection solution consisted of 1.5 µl ³H Material + 1.0 µl standard.

Volume of co-injection was 2.5 µl.

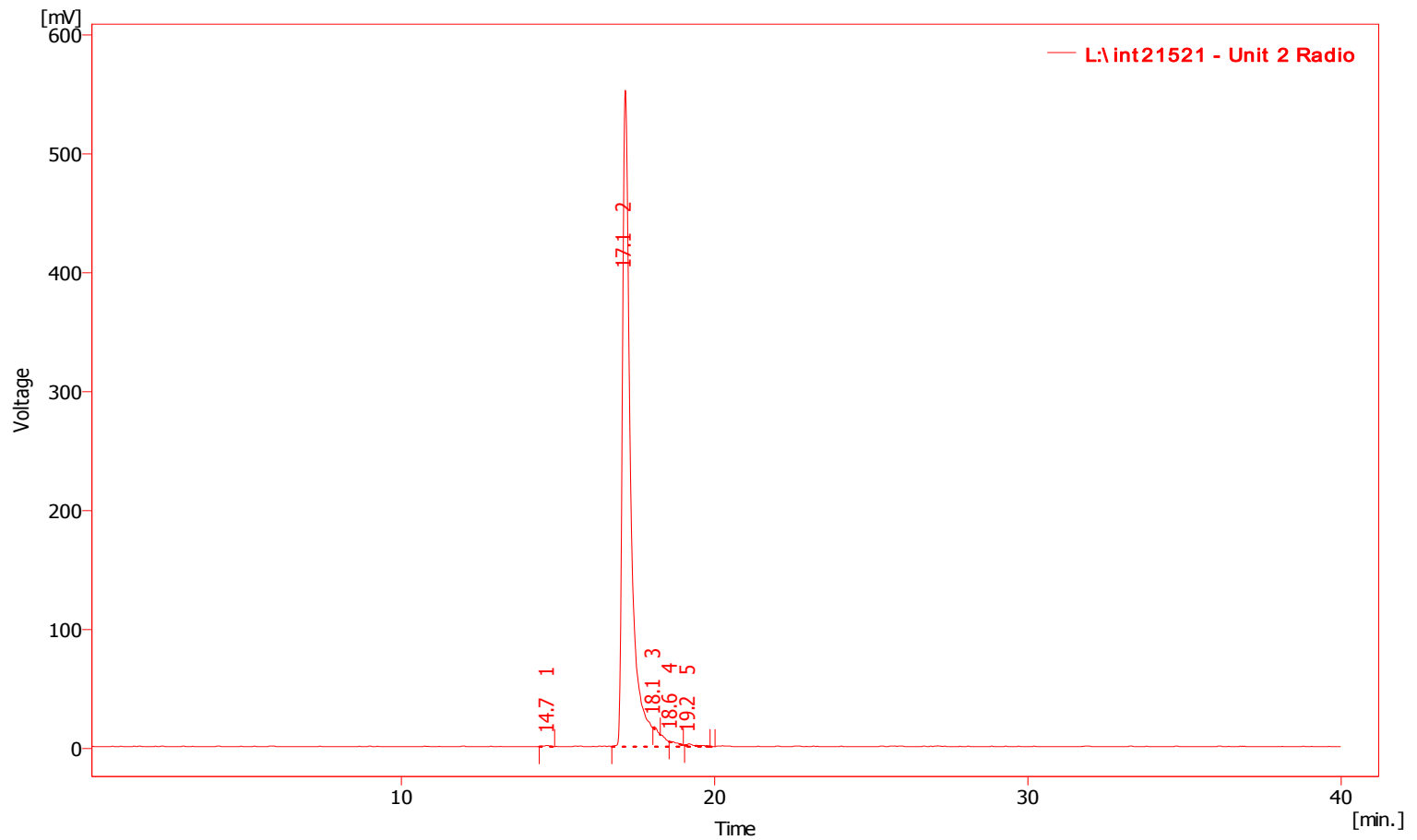
B) Mass spectrometry – Positive mode

C) NMR

MT-1769
1-(2-Deoxy-2-fluoro-β-D-arabinofuranosyl)-5-methyluracil, [methyl-3H(N)]-
Lot 237-001-0032-A-20080416-TN

Chromatogram Info:

File Name	: L:\int21521	File Created	: 4/2/2014 9:09:20 AM
Origin	: Acquired, Acquisition started 2/20/2012 9:46:44 AM	Acquired Date	: 2/20/2012 10:26:43 AM
Project	: Test	By	: Administrator
Method	: Unit2-40minrun	By	: Administrator
Description	: Radiochemical trace of 3H material alone	Modified	: 4/2/2014 9:22 AM
Created	: 6/16/2007 8:19 AM		
Column	:	Detection	: Radiochemical
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



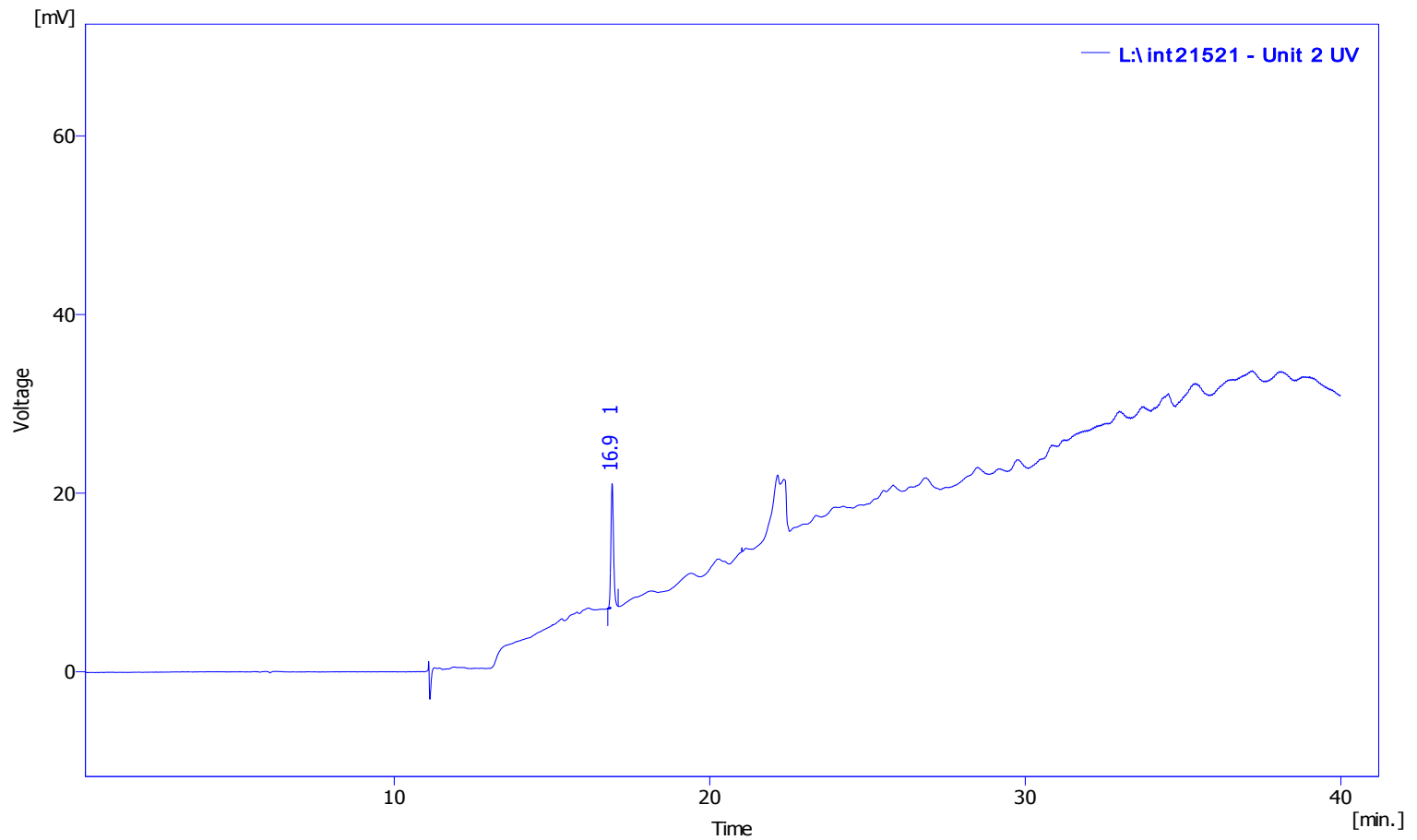
Result Table (Uncal - L:\int21521 - Unit 2 Radio)

Compound Name	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	Efficiency [th.pl]	Eff/l [t.p./m]	Symmetry/Tailing [-]	Response Factor	Resolution [-]
1	14.69	14.737	0.97	0.14	0.17	23279.58	465591.57	0.76		
2	17.15	10415.483	551.84	99.27	99.04	25379.58	507591.68	3.73		6.0
3	18.08	17.606	2.14	0.17	0.38	207889.74	4157794.87	2.00		3.2
4	18.61	14.249	0.67	0.14	0.12	74975.28	1499505.64	3.40		2.5
5	19.19	29.995	1.58	0.29	0.28	58529.56	1170591.26	3.50		2.0
Total		10492.069	557.20	100.00	100.00					

MT-1769
1-(2-Deoxy-2-fluoro-β-D-arabinofuranosyl)-5-methyluracil, [methyl-3H(N)]-
Lot 237-001-0032-A-20080416-TN

Chromatogram Info:

File Name	: L:\int21521	File Created	: 4/2/2014 9:09:20 AM
Origin	: Acquired, Acquisition started 2/20/2012 9:46:44 AM	Acquired Date	: 2/20/2012 10:26:43 AM
Project	: Test	By	: Administrator
Method	: Unit2-40minrun	By	: Administrator
Description	: UV trace of 3H material alone	Modified	: 4/2/2014 9:21 AM
Created	: 6/16/2007 8:19 AM		
Column	:	Detection	: UV 267nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



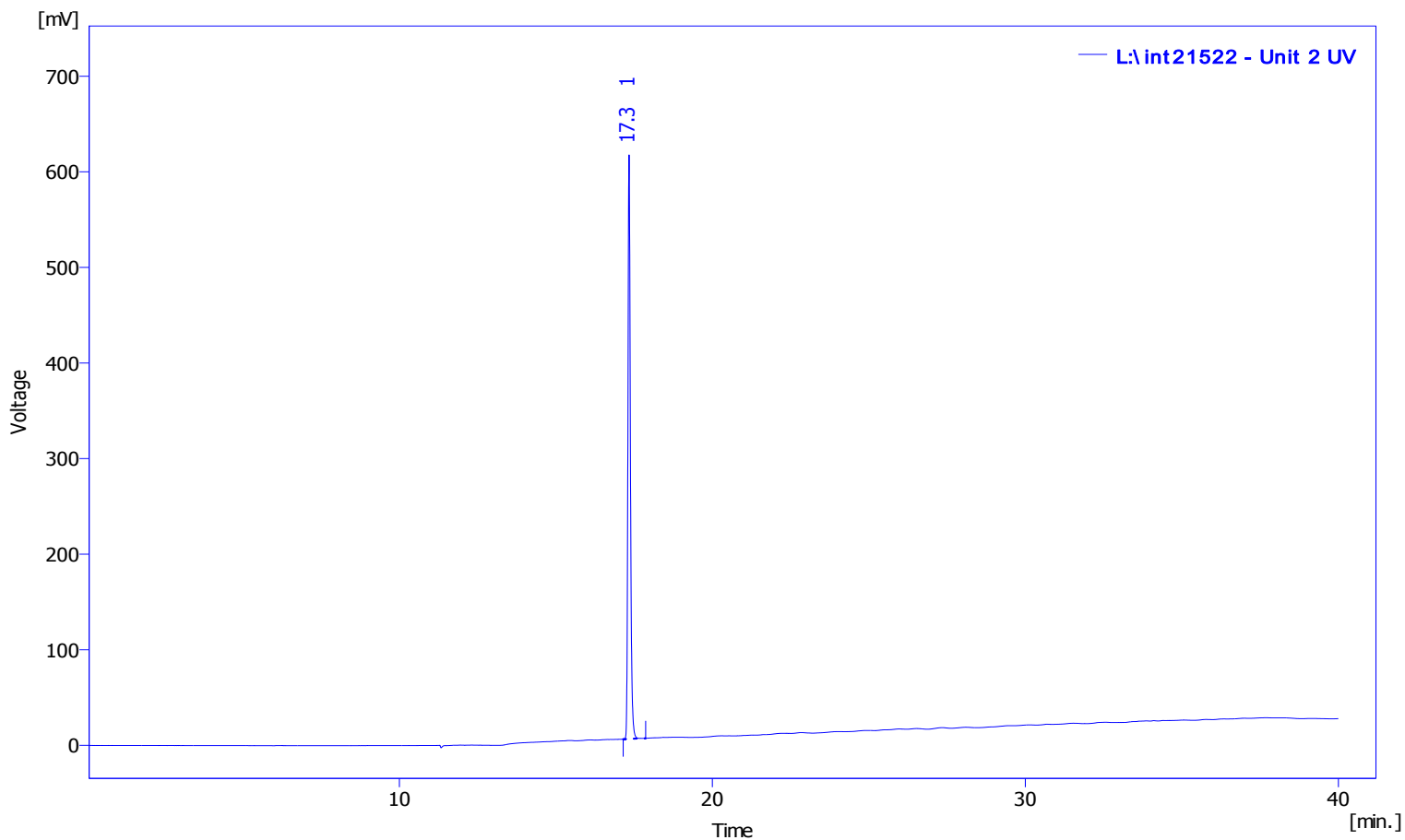
Result Table (Uncal - L:\int21521 - Unit 2 UV)

	Compound Name	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	Efficiency [th.pl]	Eff/I [t.p./m]	Symmetry/Tailing [-]	Response Factor	Resolution [-]
1		16.91	80.247	13.89	100.00	100.00	195497.28	3909945.66	1.15		
		Total	80.247	13.89	100.00	100.00					

MT-1769
1-(2-Deoxy-2-fluoro-β-D-arabinofuranosyl)-5-methyluracil, [methyl-3H(N)]-
Lot 237-001-0032-A-20080416-TN

Chromatogram Info:

File Name	: L:\int21522	File Created	: 4/2/2014 9:09:20 AM
Origin	: Acquired, Acquisition started 2/20/2012 10:51:55 AM	Acquired Date	: 2/20/2012 11:31:54 AM
Project	: Test	By	: Administrator
Method	: Unit2-40minrun	By	: Administrator
Description	: UV trace of standard material alone	Modified	: 4/2/2014 9:24 AM
Created	: 6/16/2007 8:19 AM		
Column	:	Detection	: UV 267nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



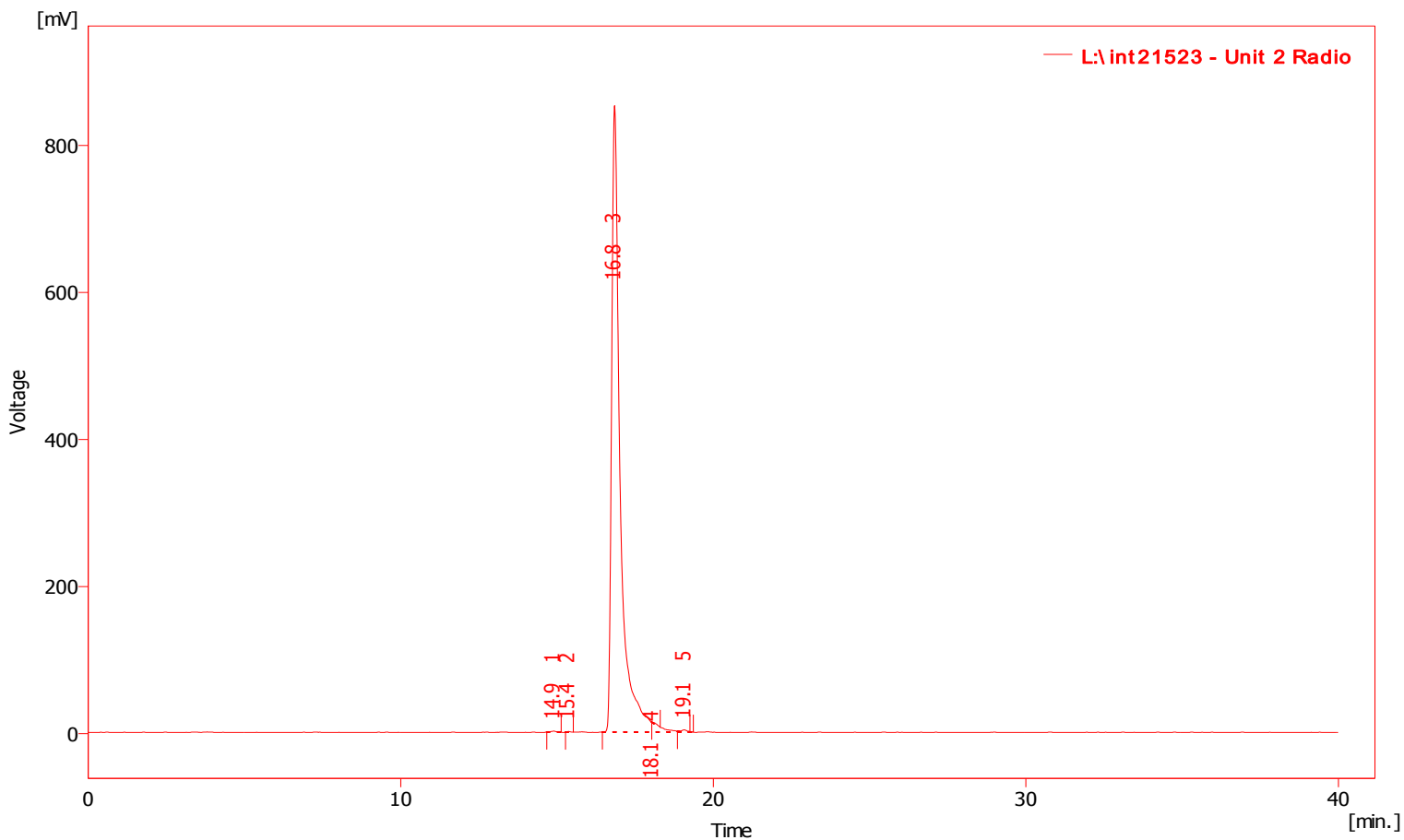
Result Table (Uncal - L:\int21522 - Unit 2 UV)

	Compound Name	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	Efficiency [th.pl]	Eff/I [t.p./m]	Symmetry/Tailing [-]	Response Factor	Resolution [-]
1		17.34	3370.561	611.06	100.00	100.00	221685.24	4433704.78	1.25		
		Total	3370.561	611.06	100.00	100.00					

MT-1769
1-(2-Deoxy-2-fluoro-β-D-arabinofuranosyl)-5-methyluracil, [methyl-3H(N)]-
Lot 237-001-0032-A-20080416-TN

Chromatogram Info:

File Name	: L:\int21523	File Created	: 4/2/2014 9:09:20 AM
Origin	: Acquired, Acquisition started 2/20/2012 11:58:47 AM	Acquired Date	: 2/20/2012 12:38:46 PM
Project	: Test	By	: Administrator
Method	: Unit2-40minrun	By	: Administrator
Description	: Radiochemical trace of 3H material co-injected with standard	Modified	: 4/2/2014 9:26 AM
Created	: 6/16/2007 8:19 AM		
Column	:	Detection	: Radiochemical
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



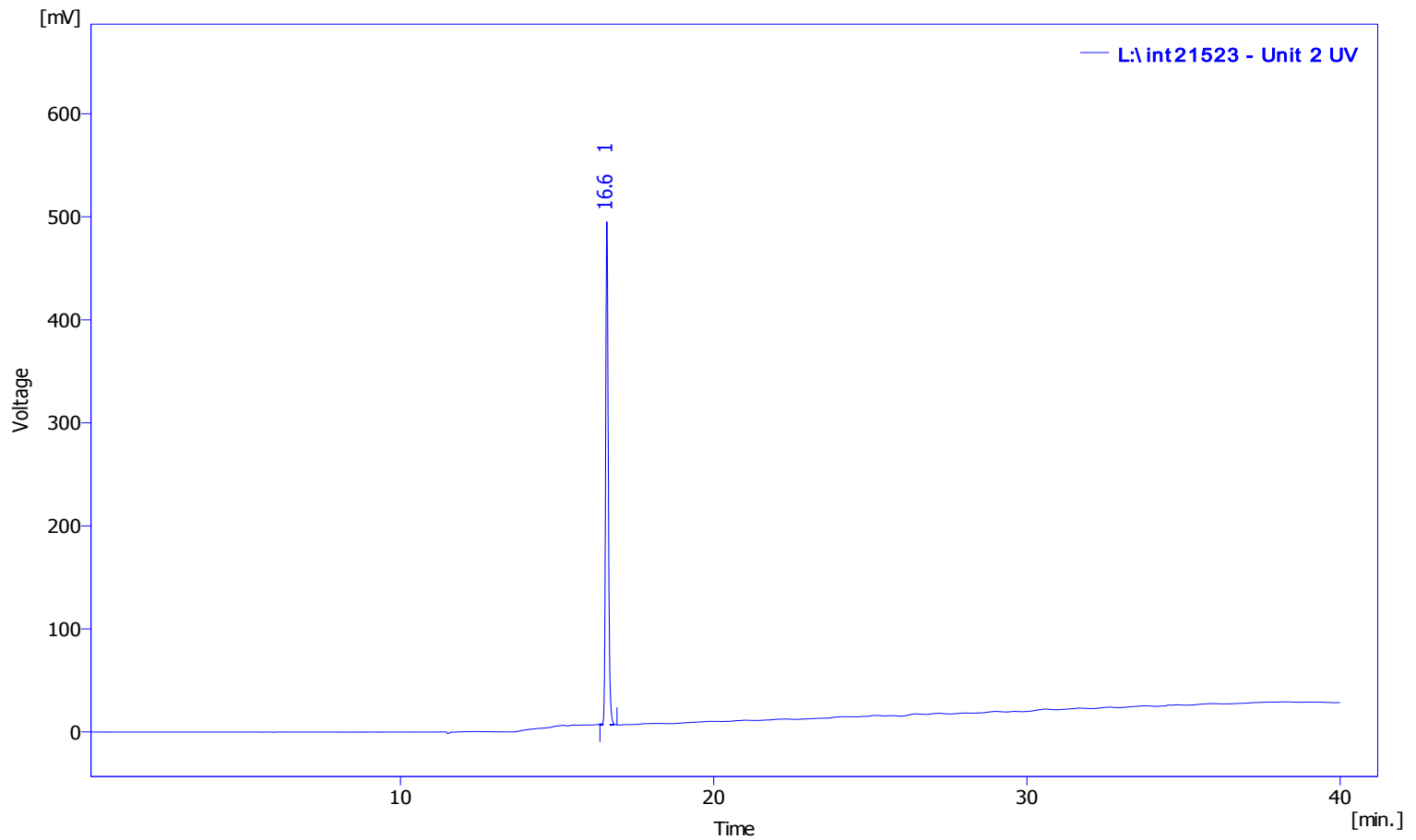
Result Table (Uncal - L:\int21523 - Unit 2 Radio)

Compound Name	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	Efficiency [th.pl]	Eff/l [t.p./m]	Symmetry/Tailing [-]	Response Factor	Resolution [-]
1	14.90	15.264	1.46	0.09	0.17	42558.32	851166.37	0.94		
2	15.37	5.890	0.97	0.04	0.11	90885.59	1817711.70	1.00		1.9
3	16.84	16438.740	851.92	99.60	99.37	23240.60	464811.90	3.73		4.6
4	18.05	14.712	0.36	0.09	0.04	2005495.39	40109907.78	6.75		4.9
5	19.09	30.420	2.62	0.18	0.31	50473.29	1009465.84	0.83		5.3
Total		16505.026	857.33	100.00	100.00					

MT-1769
1-(2-Deoxy-2-fluoro-β-D-arabinofuranosyl)-5-methyluracil, [methyl-3H(N)]-
Lot 237-001-0032-A-20080416-TN

Chromatogram Info:

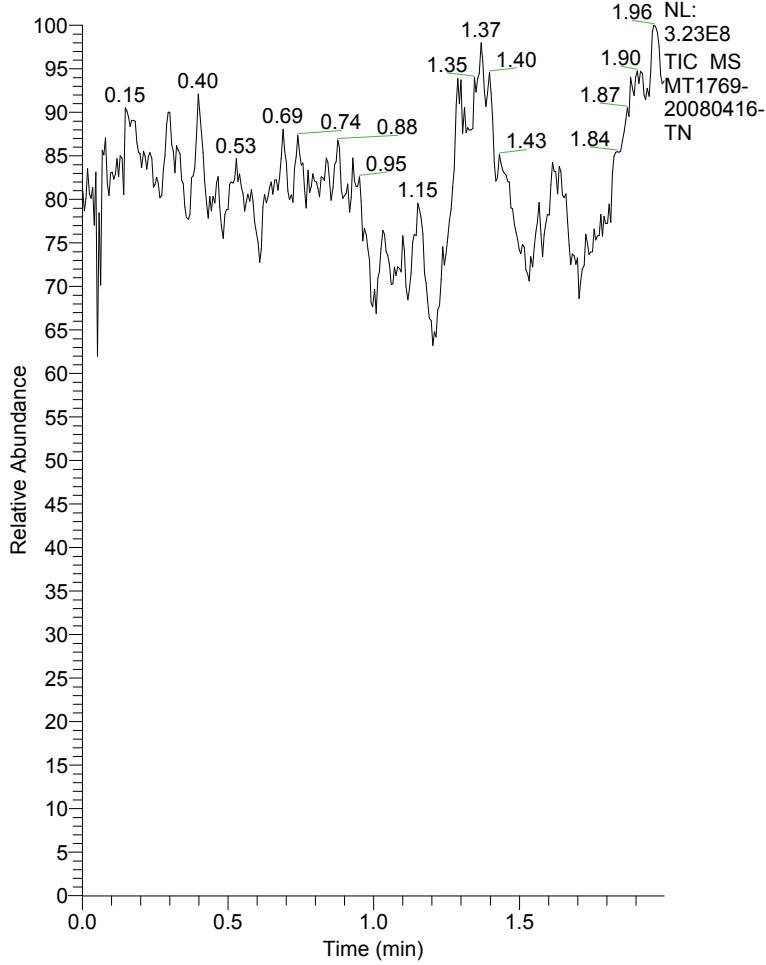
File Name	: L:\int21523	File Created	: 4/2/2014 9:09:20 AM
Origin	: Acquired, Acquisition started 2/20/2012 11:58:47 AM	Acquired Date	: 2/20/2012 12:38:46 PM
Project	: Test	By	: Administrator
Method	: Unit2-40minrun	By	: Administrator
Description	: UV trace of 3H material co-injected with standard	Modified	: 4/2/2014 9:25 AM
Created	: 6/16/2007 8:19 AM		
Column	:	Detection	: UV 267nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



Result Table (Uncal - L:\int21523 - Unit 2 UV)

	Compound Name	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	Efficiency [th.pl]	Eff/I [t.p./m]	Symmetry/Tailing [-]	Response Factor	Resolution [-]
1		16.59	2929.828	488.04	100.00	100.00	175036.65	3500732.92	1.17		
		Total	2929.828	488.04	100.00	100.00					

RT: 0.00 - 2.00



MT1769-20080416-TN#1-351 RT: 0.00-2.00

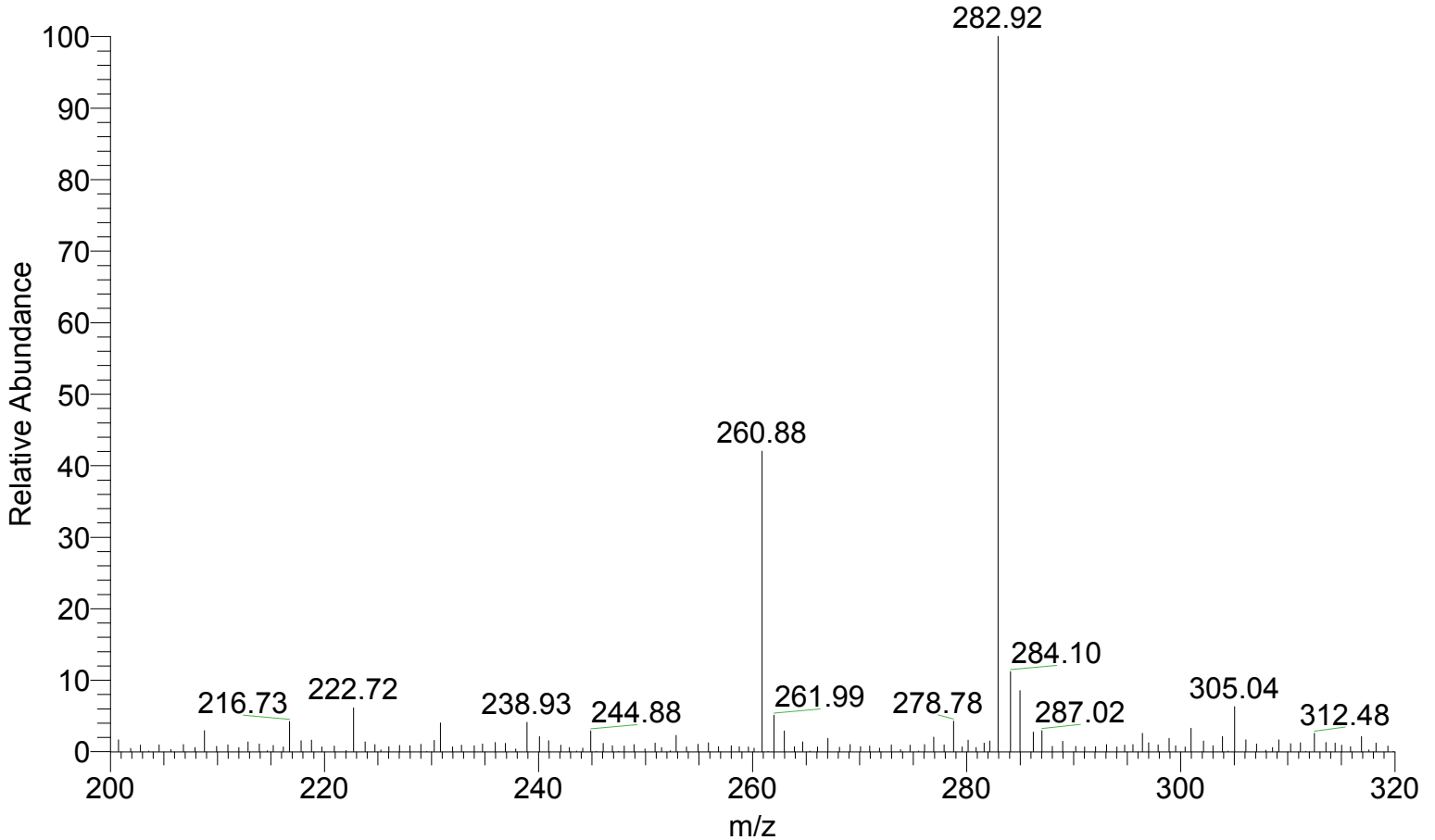
T: + c ESI Full ms [200.00-320.00]

m/z = 257.89-295.42

m/z	Intensity	Relative
260.88	34292172.1	42.01
261.99	4140864.1	5.07
262.96	2362237.5	2.89
264.69	1114571.9	1.37
267.03	1500062.4	1.84
269.11	780181.1	0.96
272.95	770850.2	0.94
276.06	799531.1	0.98
276.91	1654143.2	2.03
278.78	3477306.6	4.26
280.14	1298684.7	1.59
281.64	956508.5	1.17
282.16	1217683.9	1.49
282.92	81632635.5	100.00
284.10	9101085.8	11.15
284.99	6945574.3	8.51
286.23	2206507.5	2.70
287.02	2374419.8	2.91
288.97	1153105.5	1.41
293.06	807996.2	0.99

MT1769-20080416-TN #1-351 RT: 0.00-2.00 AV: 351 NL: 8.16E7

T: + c ESI Full ms [200.00-320.00]



MT11769 3H NMR in MeOD
Batch 20080416-TN



BRUKER

1.936
1.887
1.837

NAME MT11769
EXPNO 1
PROCNO 1
Date_ 20090706
Time_ 13.00
INSTRUM spect
PROBHD 5 mm DUX 3H-1H
PULPROG zg
TD 16384
SOLVENT MeOD
NS 2305
DS 2
SWH 6172.839 Hz
FIDRES 0.376760 Hz
AQ 1.3271540 sec
RG 46341
DW 81.000 usec
DE 6.00 usec
TE 300.0 K
D1 2.00000000 sec
TD0 1

==== CHANNEL f1 =====
NUC1 3H
P1 10.00 usec
PL1 2.00 dB
SF01 320.1321857 MHz
SI 32768
SF 320.1305850 MHz
WDW no
SSB 0
LB 0.00 Hz
GB 0
PC 1.00

