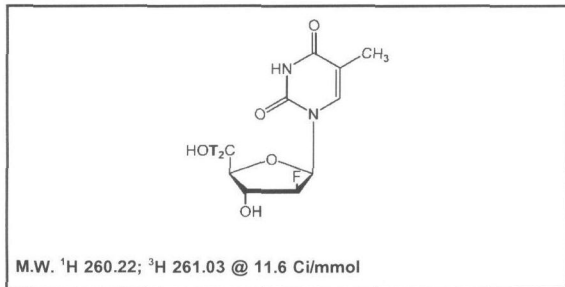




Product Data Sheet

MT-1726

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



Lot #: 194-015-0116-A-20080313-AA

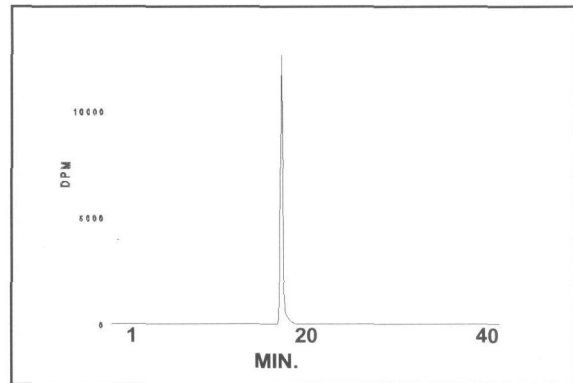
Specific Activity: 11.6 Ci/mmol

Concentration: 1.0 mCi/ml; 22.50 μg/ml

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

Date of Analysis: January 06, 2010

Radiochemical Purity: 99.6%



HPLC ANALYSIS LOT 194-015-0116-A-20080313-AA
File Name: int61202 Date and Time: 1/6/2010 11:13:43 AM
Unit 6 Radio

Peak #	Area %	Time	Area
1	0.08	16.02670	19.25492
2	99.62	17.48000	23315.29415
3	0.03	18.58000	7.22682
4	0.04	19.52670	9.81641
5	0.06	19.97670	13.79907
6	0.16	20.76000	37.70995
Totals	100.00		23403.10132

Storage Recommendation: Store 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-1726

1-(2-Deoxy-2-fluoro- β -L-arabinofuranosyl)-5-methyluracil, [5'- ^3H]-

Lot 194-015-0116-A-20080313-AA

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

Concentrations and volumes:

Standard solution concentration was 2.0 mg/ml.

^3H **Material** concentration was 1.0 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 0.5 μl ^3H **Material** + 1.0 μl standard.

Volume of co-injection was 1.5 μl .

Volume of blank injection was 1.0 μl .

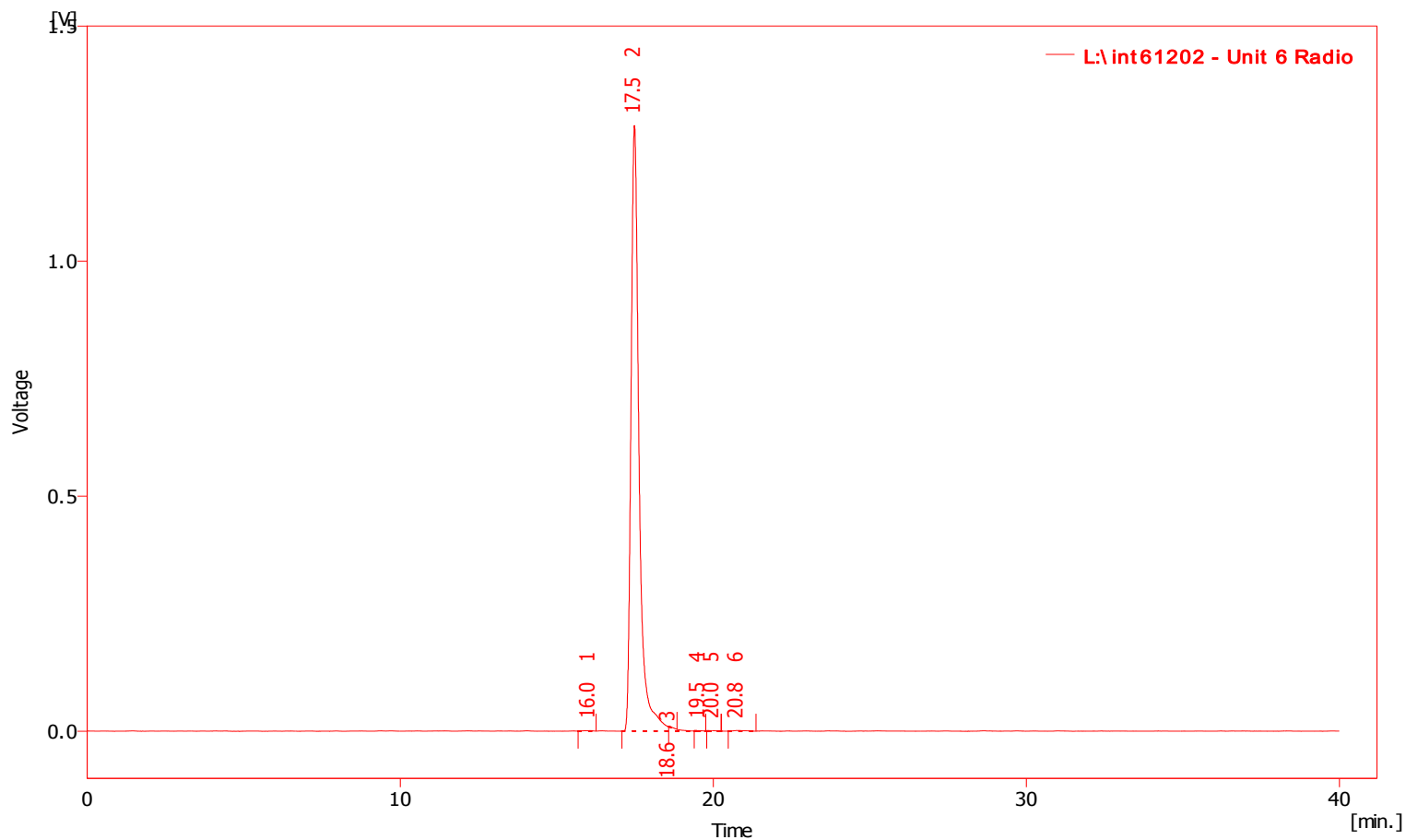
B) Mass spectrometry – Positive mode

C) NMR

MT-1726
1-(2-Deoxy-2-fluoro-β-L-arabinofuranosyl)-5-methyluracil, [5'-3H]-
Lot 194-015-0116-A-20080313-AA

Chromatogram Info:

File Name	: L:\int61202	File Created	: 4/1/2014 11:07:39 AM
Origin	: Acquired, Acquisition started 1/6/2010 10:33:44 AM	Acquired Date	: 1/6/2010 11:13:43 AM
Project	: Test	By	: Administrator
Method	: Unit6-40minrun	By	: Administrator
Description	: Radiochemical trace of 3H material alone	Modified	: 4/1/2014 11:24 AM
Created	: 7/14/2007 11:10 AM		
Column	:	Detection	: Radiochemical
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



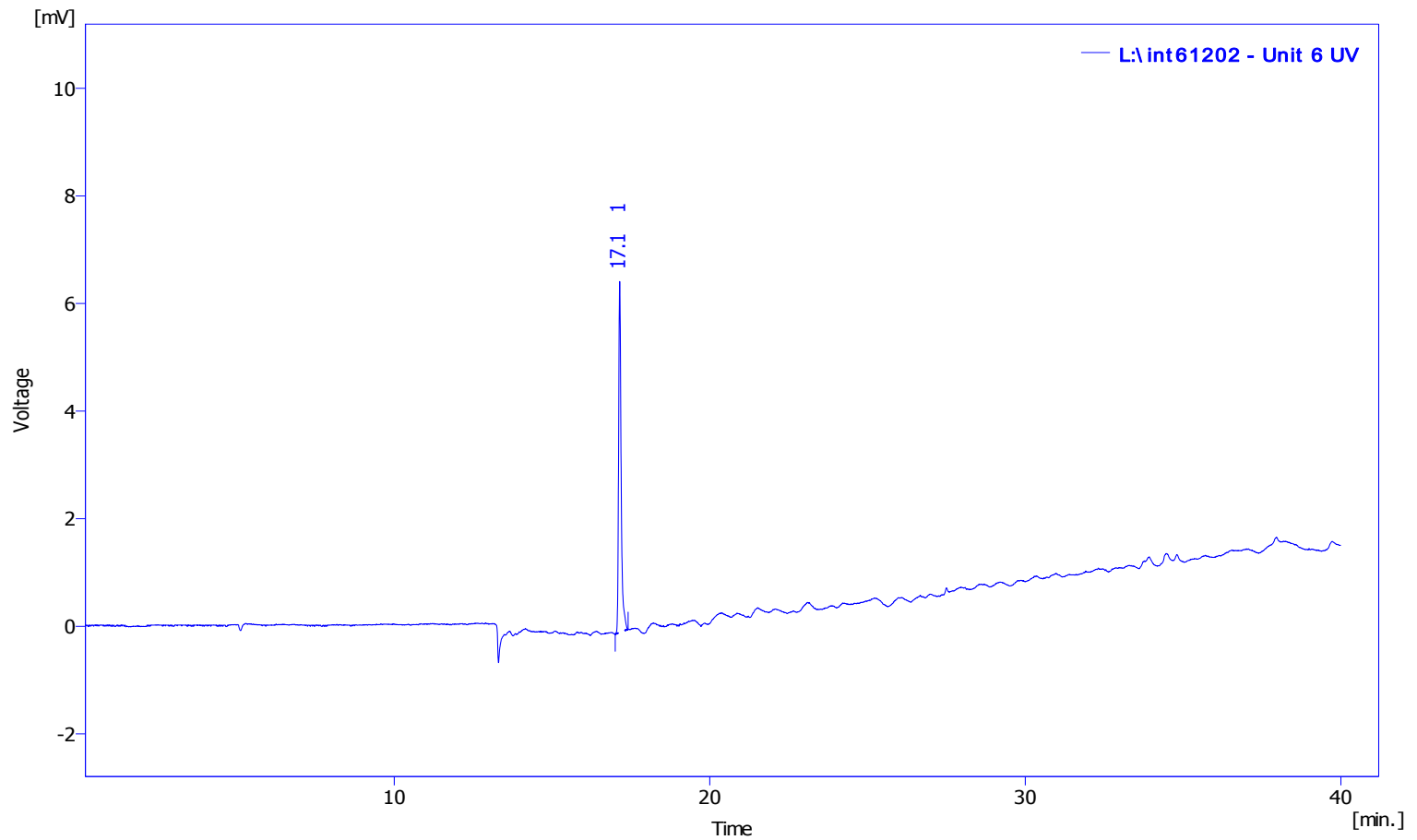
Result Table (Uncal - L:\int61202 - Unit 6 Radio)

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	16.03	19.255	0.93	0.08	0.07	9683.74	193674.75	0.81		
2	17.48	23315.294	1288.49	99.62	99.67	25695.30	513905.99	4.09		2.7
3	18.58	7.227	0.10	0.03	0.01	19124988.56	382499771.20	20.00		4.9
4	19.53	9.816	0.82	0.04	0.06	56513.54	1130270.80	1.26		5.5
5	19.98	13.799	0.97	0.06	0.07	45678.35	913567.09	1.23		1.3
6	20.76	37.710	1.51	0.16	0.12	16828.68	336573.63	1.51		1.5
Total		23403.101	1292.82	100.00	100.00					

MT-1726
1-(2-Deoxy-2-fluoro- β -L-arabinofuranosyl)-5-methyluracil, [5'-3H]-
Lot 194-015-0116-A-20080313-AA

Chromatogram Info:

File Name	: L:\int61202	File Created	: 4/1/2014 11:07:39 AM
Origin	: Acquired, Acquisition started 1/6/2010 10:33:44 AM	Acquired Date	: 1/6/2010 11:13:43 AM
Project	: Test	By	: Administrator
Method	: Unit6-40minrun	By	: Administrator
Description	: UV trace of 3H material alone	Modified	: 4/1/2014 11:34 AM
Created	: 7/14/2007 11:10 AM		
Column	:	Detection	: UV 266nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



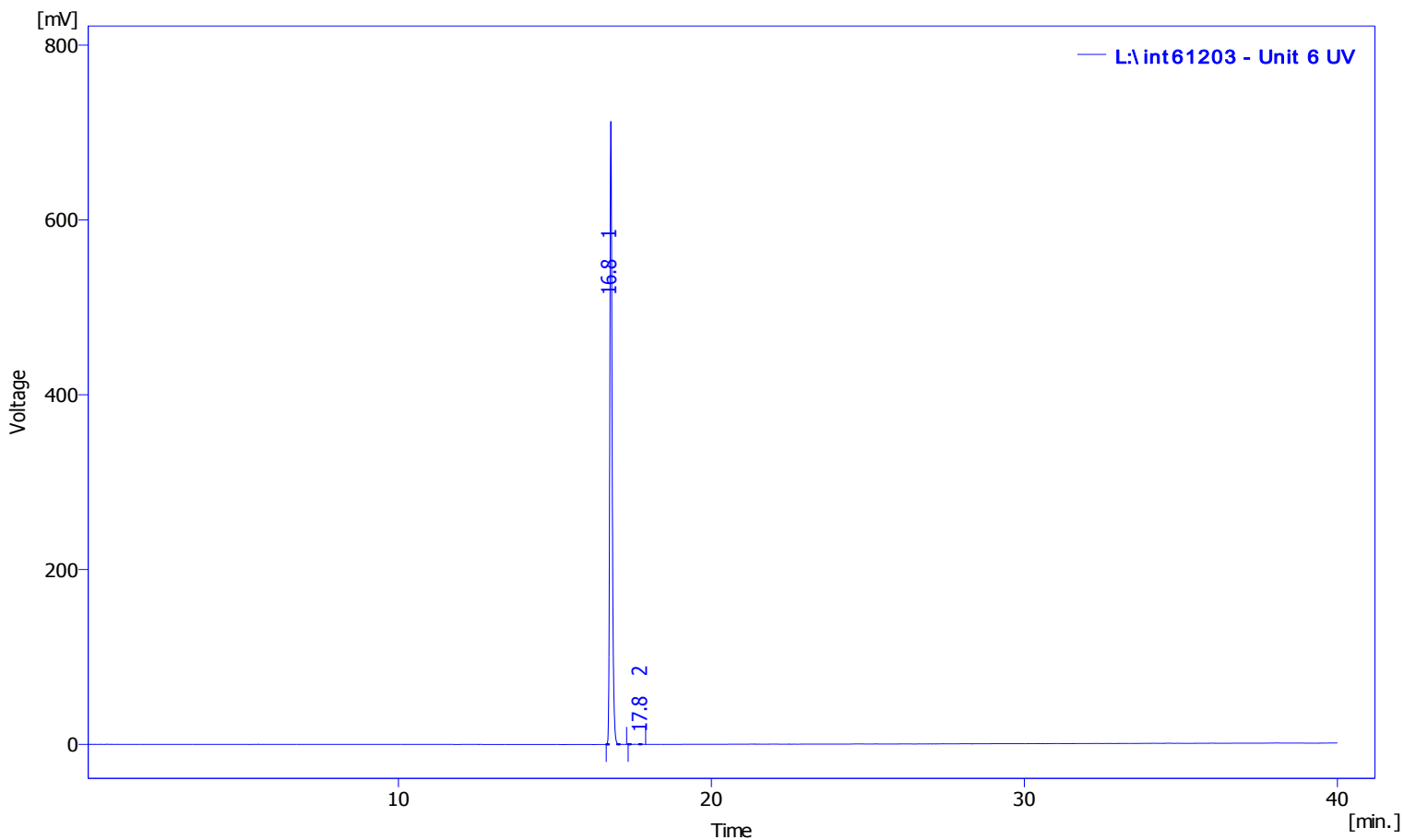
Result Table (Uncal - L:\int61202 - Unit 6 UV)

	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		17.15	36.063	6.52	100.00	100.00	234547.96	4690959.28	1.48		
		Total	36.063	6.52	100.00	100.00					

MT-1726
1-(2-Deoxy-2-fluoro-β-L-arabinofuranosyl)-5-methyluracil, [5'-3H]-
Lot 194-015-0116-A-20080313-AA

Chromatogram Info:

File Name	: L:\int61203	File Created	: 4/1/2014 11:07:39 AM
Origin	: Acquired, Acquisition started 1/6/2010 11:41:11 AM	Acquired Date	: 1/6/2010 12:21:10 PM
Project	: Test	By	: Administrator
Method	: Unit6-40minrun	By	: Administrator
Description	: UV trace of standard material alone		
Created	: 7/14/2007 11:10 AM	Modified	: 4/1/2014 11:26 AM
Column	:	Detection	: UV 266nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



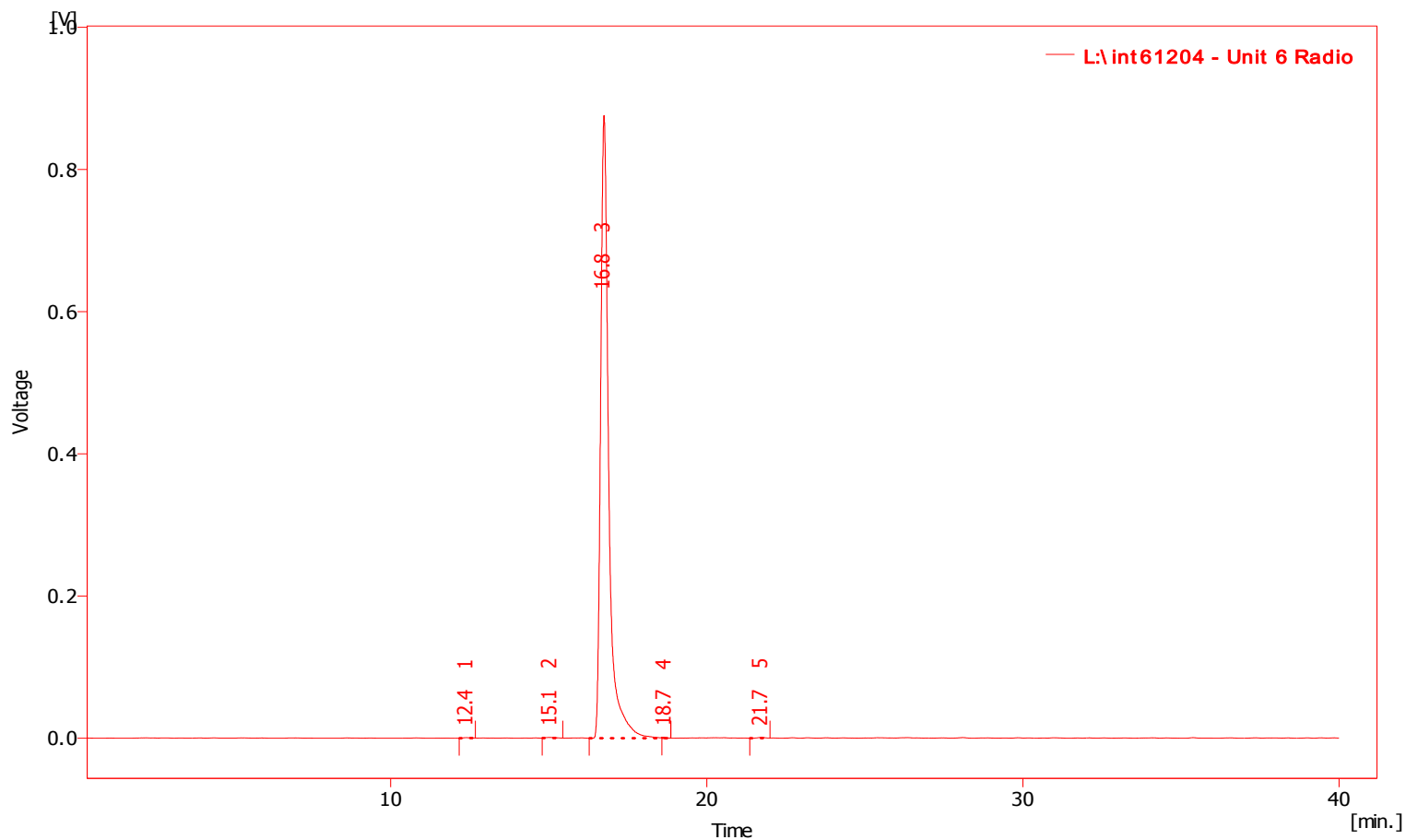
Result Table (Uncal - L:\int61203 - Unit 6 UV)

	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		16.79	3703.308	712.75	99.94	99.97	243926.35	4878527.08	1.24		
2		17.77	2.361	0.19	0.06	0.03	163772.43	3275448.62	0.65		6.3
		Total	3705.669	712.94	100.00	100.00					

MT-1726
1-(2-Deoxy-2-fluoro-β-L-arabinofuranosyl)-5-methyluracil, [5'-3H]-
Lot 194-015-0116-A-20080313-AA

Chromatogram Info:

File Name	: L:\int61204	File Created	: 4/1/2014 11:07:39 AM
Origin	: Acquired, Acquisition started 1/6/2010 12:54:24 PM	Acquired Date	: 1/6/2010 1:34:23 PM
Project	: Test	By	: Administrator
Method	: Unit6-40minrun	By	: Administrator
Description	: Radiochemical trace of 3H material co-injected with standard	Modified	: 4/1/2014 11:28 AM
Created	: 7/14/2007 11:10 AM		
Column	:	Detection	: Radiochemical
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



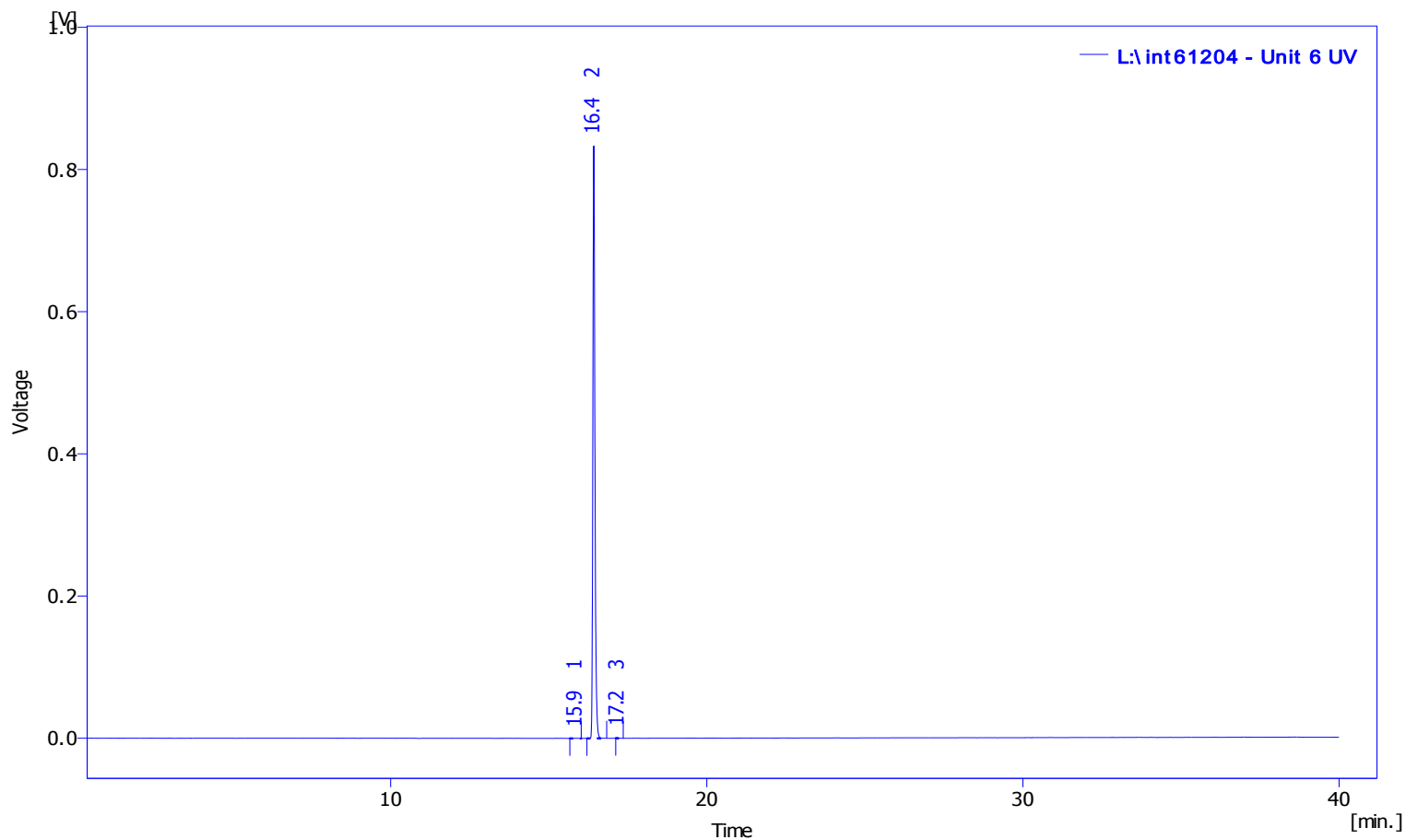
Result Table (Uncal - L:\int61204 - Unit 6 Radio)

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	12.41	11.321	0.81	0.07	0.09	15232.78	304655.58	1.18		
2	15.06	21.102	1.01	0.13	0.12	9349.95	186998.91	1.20		5.2
3	16.75	15668.588	875.94	99.66	99.61	24869.06	497381.20	3.16		3.2
4	18.68	4.758	0.48	0.03	0.05	94095.55	1881911.09	1.43		5.8
5	21.73	16.643	1.09	0.11	0.12	52463.27	1049265.39	0.92		9.8
Total		15722.410	879.33	100.00	100.00					

MT-1726
1-(2-Deoxy-2-fluoro-β-L-arabinofuranosyl)-5-methyluracil, [5'-3H]-
Lot 194-015-0116-A-20080313-AA

Chromatogram Info:

File Name	: L:\int61204	File Created	: 4/1/2014 11:07:39 AM
Origin	: Acquired, Acquisition started 1/6/2010 12:54:24 PM	Acquired Date	: 1/6/2010 1:34:23 PM
Project	: Test	By	: Administrator
Method	: Unit6-40minrun	By	: Administrator
Description	: UV trace of 3H material co-injected with standard	Modified	: 4/1/2014 11:27 AM
Created	: 7/14/2007 11:10 AM		
Column	:	Detection	: UV 266nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



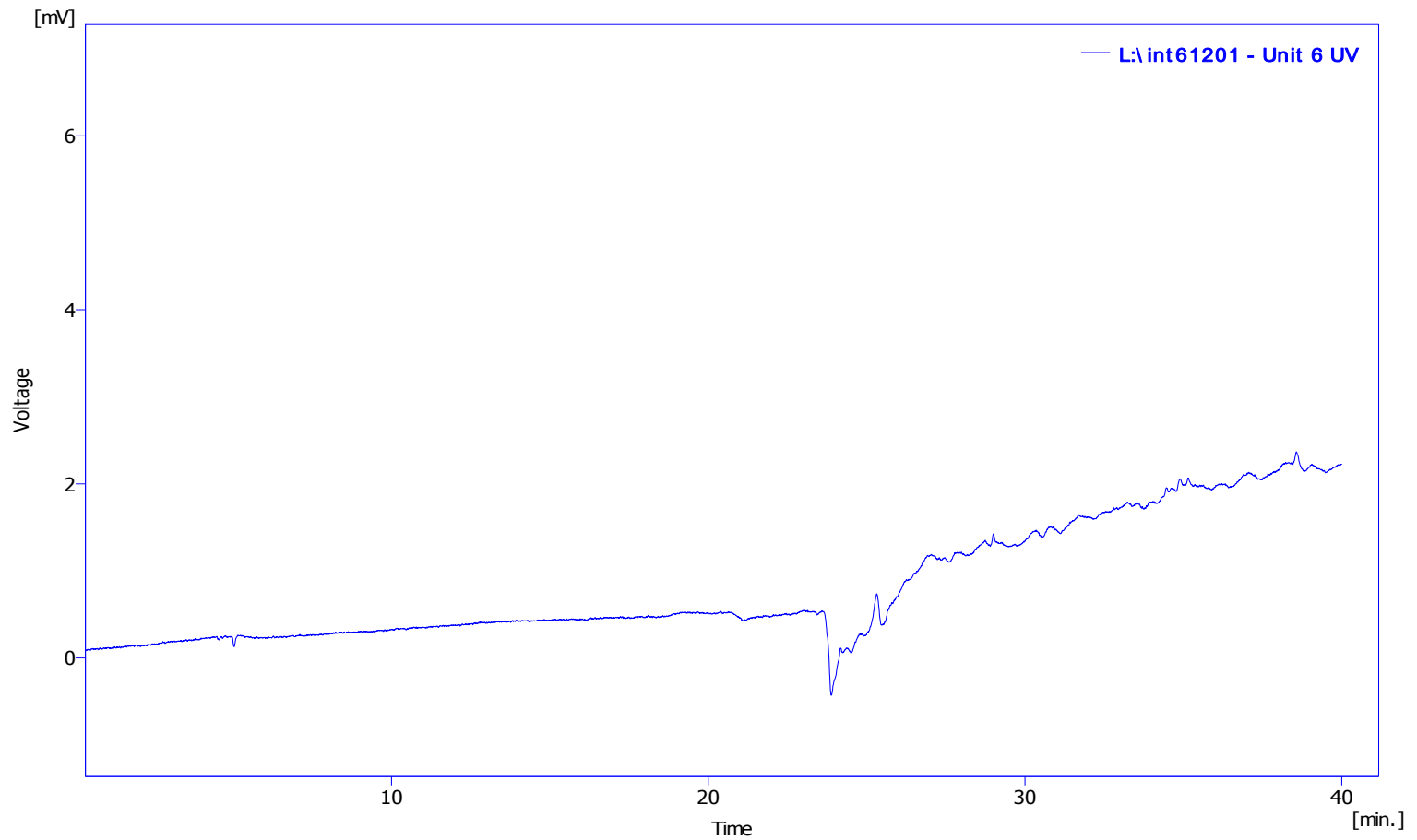
Result Table (Uncal - L:\int61204 - Unit 6 UV)

	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		15.86	1.314	0.16	0.03	0.02	130562.30	2611245.97	0.95		
2		16.43	3788.869	833.19	99.94	99.96	305079.18	6101583.64	1.21		3.8
3		17.19	0.952	0.20	0.03	0.02	304527.89	6090557.87	1.53		6.3
		Total	3791.135	833.55	100.00	100.00					

MT-1726
1-(2-Deoxy-2-fluoro- β -L-arabinofuranosyl)-5-methyluracil, [5'-3H]-
Lot 194-015-0116-A-20080313-AA

Chromatogram Info:

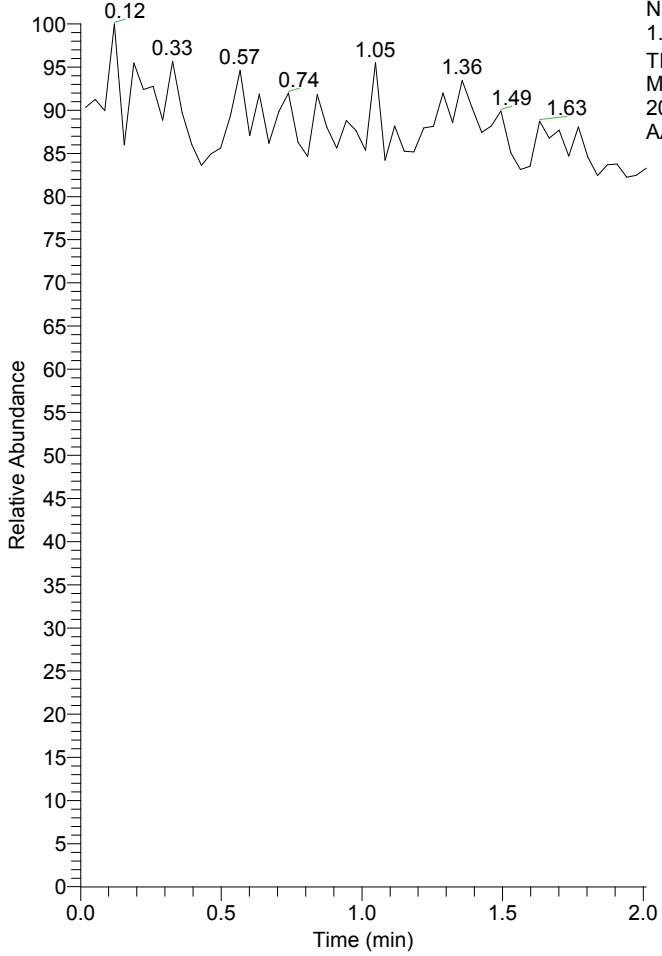
File Name	: L:\int61201	File Created	: 4/1/2014 11:11:46 AM
Origin	: Acquired, Acquisition started 1/6/2010 9:26:30 AM	Acquired Date	: 1/6/2010 10:06:29 AM
Project	: Test	By	: Administrator
Method	: Unit6-40minrun	By	: Administrator
Description	: UV trace of blank injection	Modified	: 4/1/2014 11:29 AM
Created	: 7/14/2007 11:10 AM		
Column	:	Detection	: UV 266nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



Result Table (Uncal - L:\int61201 - Unit 6 UV)

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 [-]
No peak to report										

RT: 0.00 - 2.01



NL: 1.33E7
TIC MS
MT1726-20080313-AA

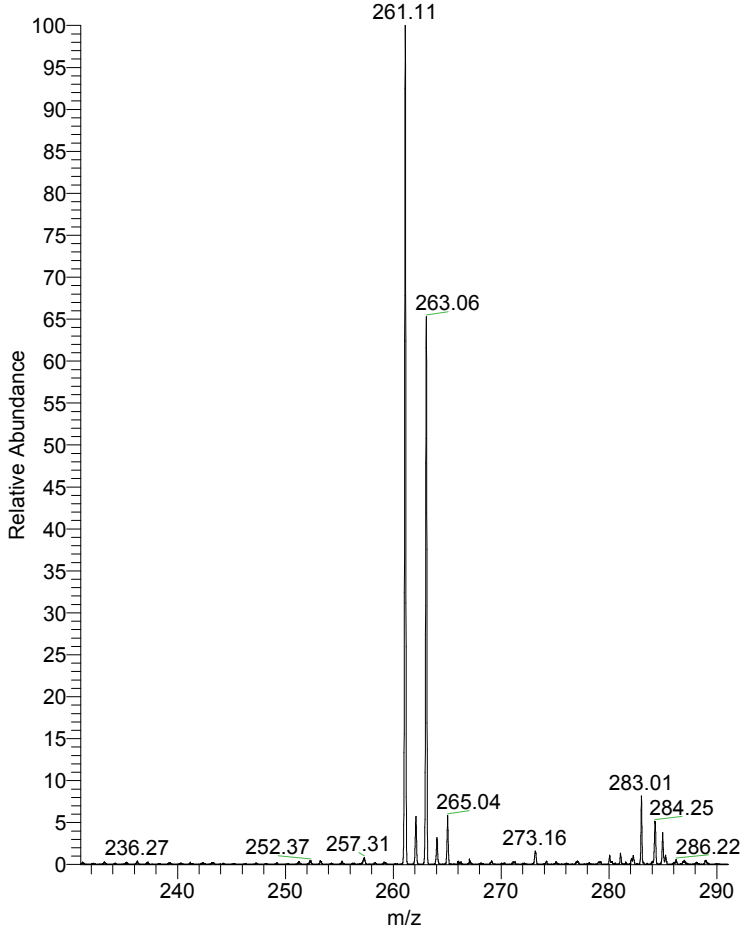
MT1726-20080313-AA#1-59 RT: 0.02-2.01

T: + p NSI Z ms [231.00-291.00]

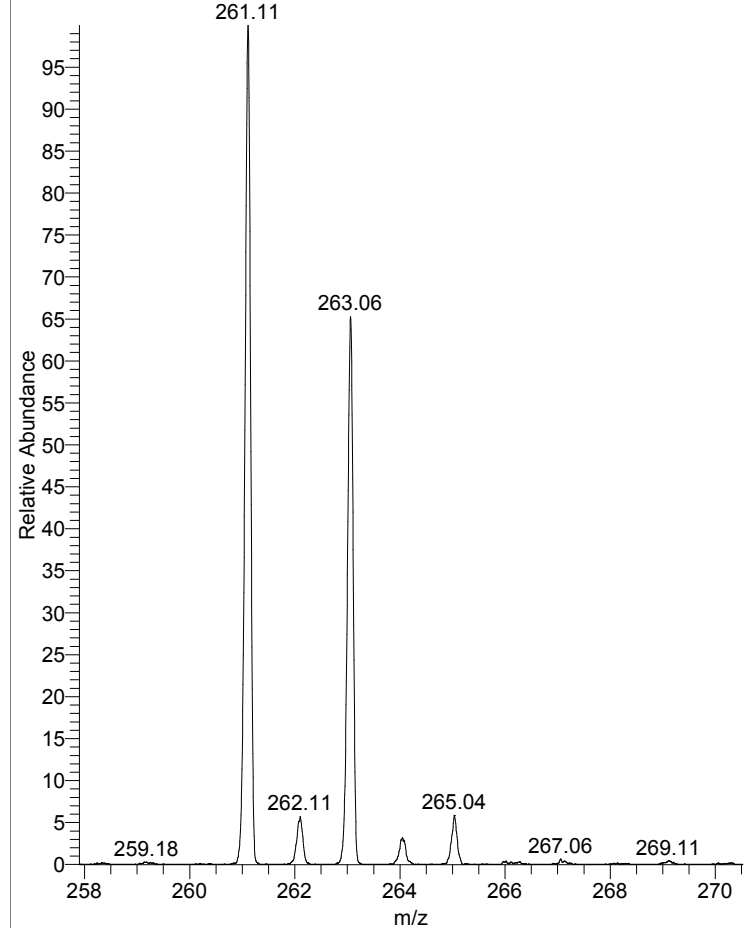
m/z = 258.53-269.04

m/z	Intensity	Relative
259.20	26189.0	0.52
260.19	7731.5	0.15
261.10	5079957.0	100.00
262.09	317457.7	6.25
263.05	3325825.8	65.47
264.05	194401.4	3.83
265.03	299682.5	5.90
266.11	42495.9	0.84
267.09	38652.0	0.76
268.15	16470.1	0.32

MT1726-20080313-AA #1-59 RT: 0.02-2.01 AV: 59 NL: 2.04E5
T: + p NSI Z ms [231.00-291.00]



MT1726-20080313-AA #1-59 RT: 0.02-2.01 AV: 59 NL: 2.04E5
T: + p NSI Z ms [231.00-291.00]



MT11726 3H NMR in MeOD
Batch 20080313-AA



BRUKER

3.859
3.852
3.832
3.824
3.809
3.783
3.768
3.744
3.729

NAME MT11726
EXPNO 1
PROCNO 1
Date_ 20100108
Time_ 15.13
INSTRUM spect
PROBHD 5 mm DUX 3H-1H
PULPROG zg
TD 16384
SOLVENT MeOD
NS 4915
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

