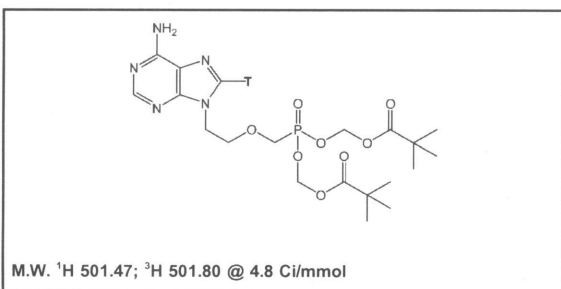




Product Data Sheet

MT-1608

Adefovir dipivoxil, [$8\text{-}^3\text{H}$]-



Lot #: 194-146-0048-A-201000707-DG

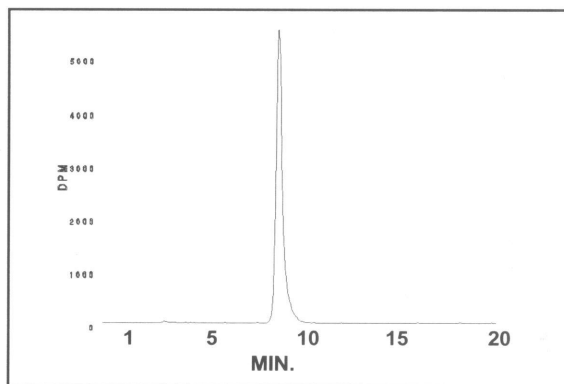
Specific Activity: 4.8 Ci/mmol

Concentration: 1.0 mCi/ml; 104.54 $\mu\text{g/ml}$

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

Date of Analysis: August 11, 2010

Radiochemical Purity: 99.7%



HPLC ANALYSIS LOT 194-146-0048-A-201000707-DG

File Name: int20648 Date and Time: 8/11/2010 10:58:15 A

Unit 2 Radio

Peak #	Area %	Time	Area
1	0.27	3.12670	35.41404
2	99.73	8.95330	13203.19370
Totals	100.00		13238.60774

Stability and Storage Recommendation: The decomposition rate 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-1608

Adefovir Dipivoxil, [8-³H]-

Lot 194-146-0048-A-20100707-DG

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.

Adefovir Dipivoxil, [8-³H]- concentration was 0.2 mCi/ml.

Volume of standard alone injection was 1.0 µl.

Volume of **Adefovir Dipivoxil, [8-³H]-** alone injection was 1.0 µl.

Co-injection solution consisted of 1.5 µl **Adefovir Dipivoxil, [8-³H]-** + 1.0 µl standard.

Volume of co-injection was 2.5 µl.

Volume of blank injection was 1.0 µl.

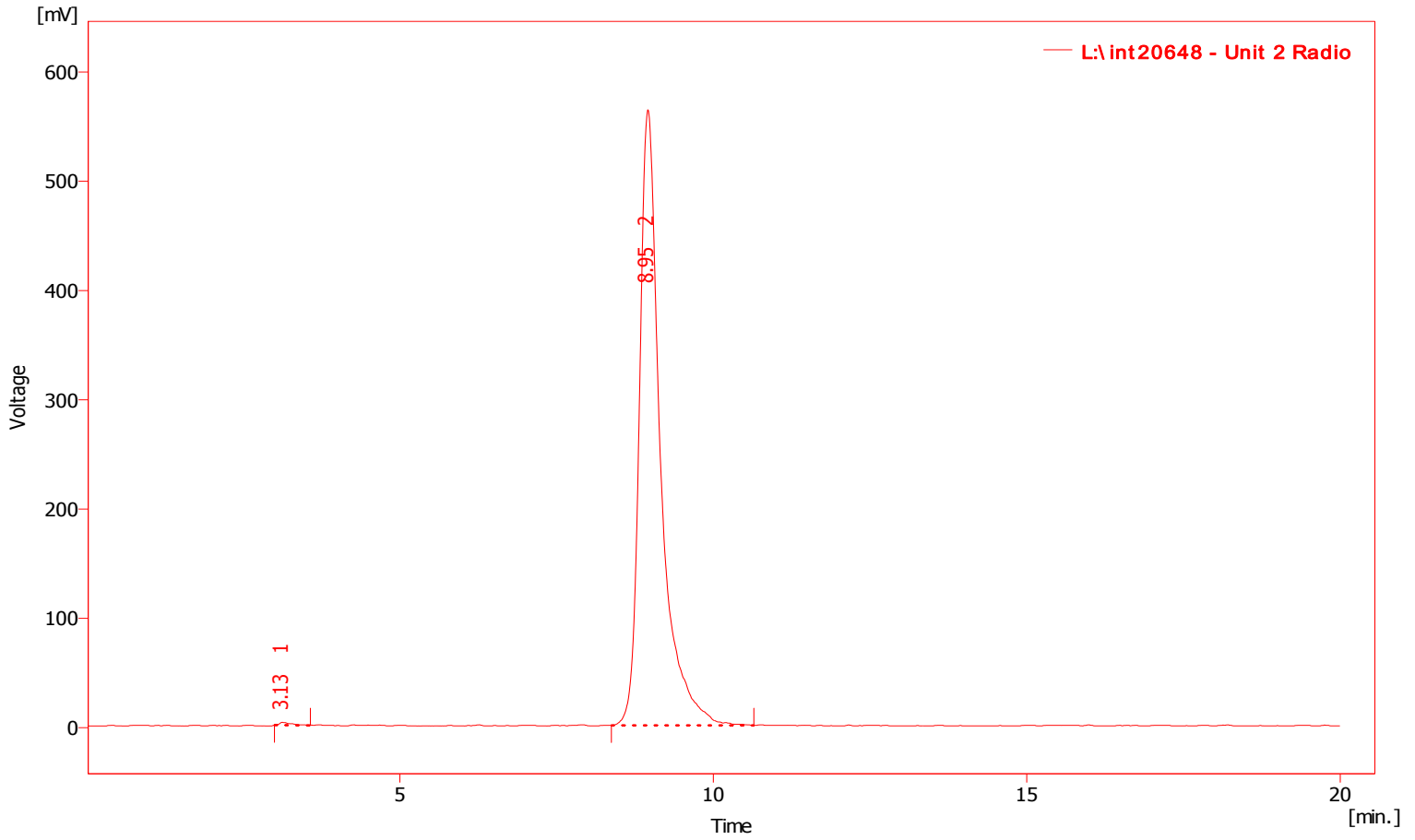
B) Mass spectrometry – Positive mode

C) NMR

MT1608
Adefovir Dipivoxil, [8-3H]-
Lot 194-146-0048-A-20100707-DG

Chromatogram Info:

File Name	: L:\int20648	File Created	: 3/26/2014 11:41:53 AM
Origin	: Acquired, Acquisition started 8/11/2010 10:38:15 AM	Acquired Date	: 8/11/2010 10:58:15 AM
Project	: Test	By	: Administrator
Method	: unit2-20minrun	By	: Administrator
Description	: Radiochemical trace of 3H material alone	Modified	: 3/26/2014 12:01 PM
Created	: 8/8/2007 9:12 AM		
Column	:	Detection	: Radiochemical
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



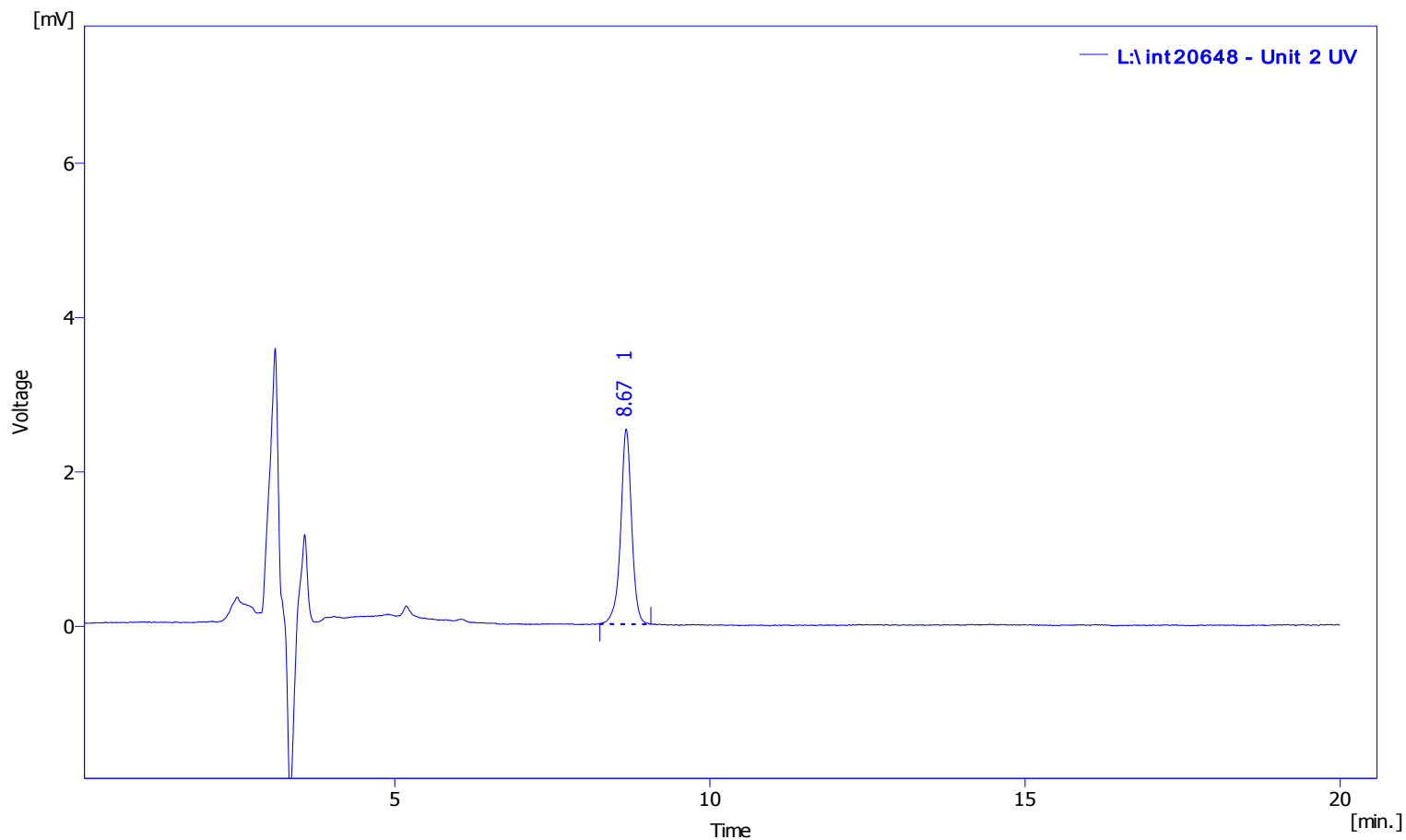
Result Table (Uncal - L:\int20648 - Unit 2 Radio)

	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		3.13	35.414	2.71	0.27	0.48	1118.99	22379.87	2.11		
2		8.95	13203.194	563.31	99.73	99.52	4336.90	86737.98	1.63		12.7
		Total	13238.608	566.01	100.00	100.00					

MT1608
Adefovir Dipivoxil, [8-3H]-
Lot 194-146-0048-A-20100707-DG

Chromatogram Info:

File Name	: L:\int20648	File Created	: 3/26/2014 11:41:53 AM
Origin	: Acquired, Acquisition started 8/11/2010 10:38:15 AM	Acquired Date	: 8/11/2010 10:58:15 AM
Project	: Test	By	: Administrator
Method	: unit2-20minrun	By	: Administrator
Description	: UV trace of 3H material alone	Modified	: 3/26/2014 11:59 AM
Created	: 8/8/2007 9:12 AM		
Column	:	Detection	: UV 260nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



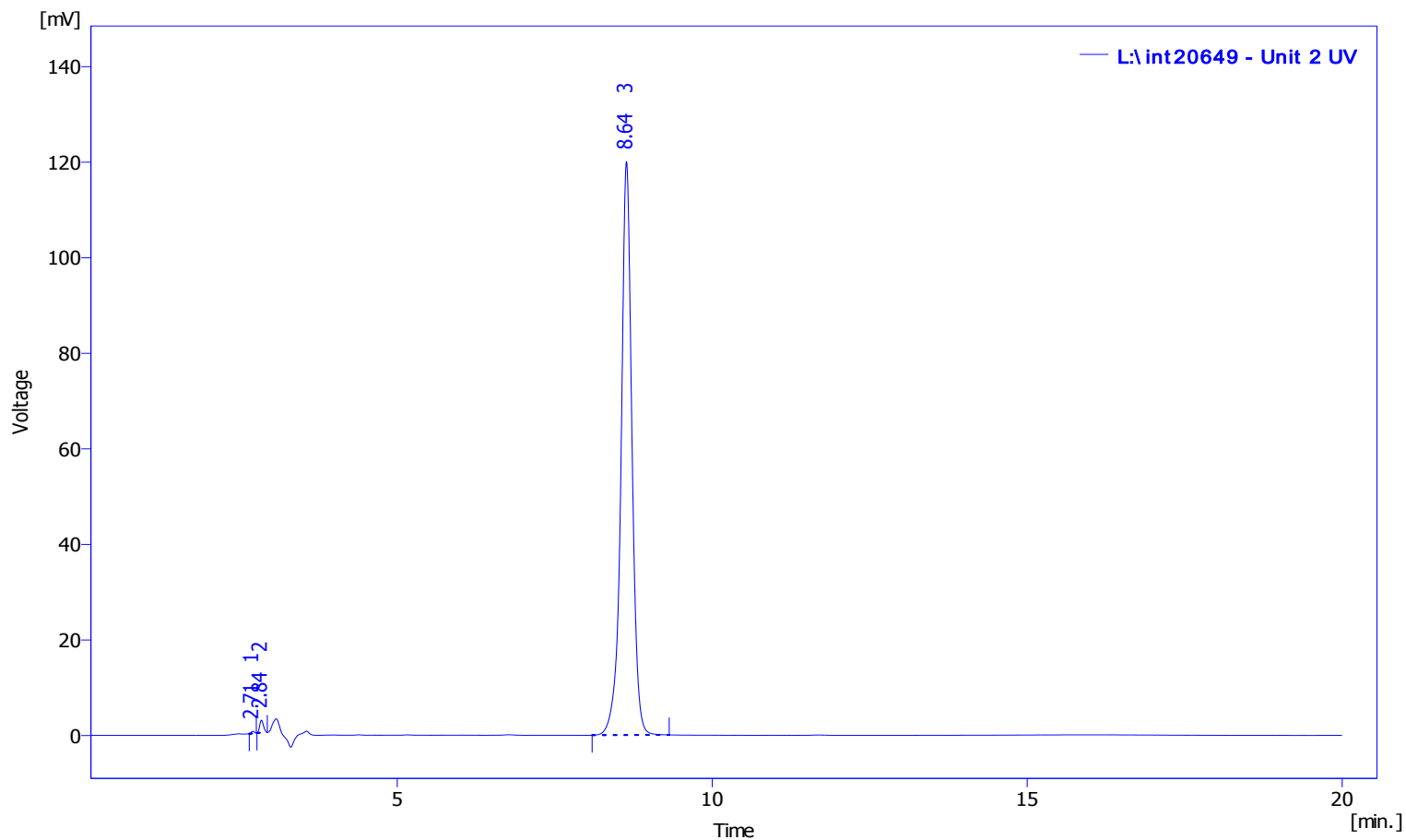
Result Table (Uncal - L:\int20648 - Unit 2 UV)

	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		8.67	30.705	2.53	100.00	100.00	12852.95	257059.08	0.96		
		Total	30.705	2.53	100.00	100.00					

MT1608
Adefovir Dipivoxil, [8-3H]-
Lot 194-146-0048-A-20100707-DG

Chromatogram Info:

File Name	: L:\int20649	File Created	: 3/26/2014 11:41:52 AM
Origin	: Acquired, Acquisition started 8/11/2010 11:04:24 AM	Acquired Date	: 8/11/2010 11:24:24 AM
Project	: Test	By	: Administrator
Method	: unit2-20minrun	By	: Administrator
Description	: UV trace of standard material alone	Modified	: 3/26/2014 12:03 PM
Created	: 8/8/2007 9:12 AM		
Column	:	Detection	: UV 260nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



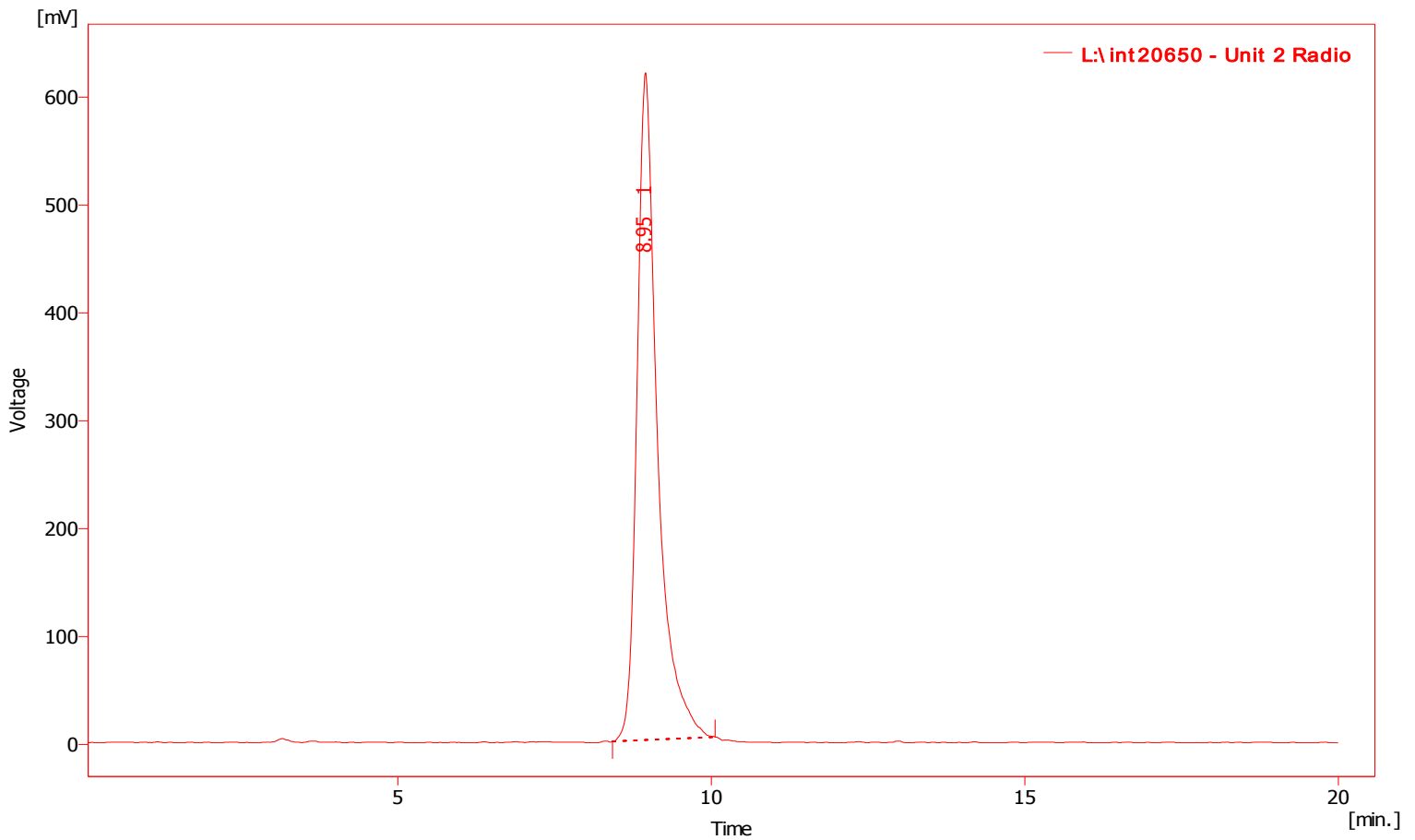
Result Table (Uncal - L:\int20649 - Unit 2 UV)

	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		2.71	1.502	0.46	0.10	0.37	11273.97	225479.37	0.97		
2		2.84	11.082	2.63	0.76	2.13	9140.48	182809.70	1.17		1.2
3		8.64	1444.975	120.03	99.14	97.50	13250.37	265007.41	0.95		27.7
		Total	1457.560	123.11	100.00	100.00					

MT1608
Adefovir Dipivoxil, [8-3H]-
Lot 194-146-0048-A-20100707-DG

Chromatogram Info:

File Name	: L:\int20650	File Created	: 3/26/2014 11:41:52 AM
Origin	: Acquired, Acquisition started 8/11/2010 11:35:30 AM	Acquired Date	: 8/11/2010 11:55:30 AM
Project	: Test	By	: Administrator
Method	: unit2-20minrun	By	: Administrator
Description	: Radiochemical trace of 3H material co-injected with standard	Modified	: 3/26/2014 12:05 PM
Created	: 8/8/2007 9:12 AM		
Column	:	Detection	: Radiochemical
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



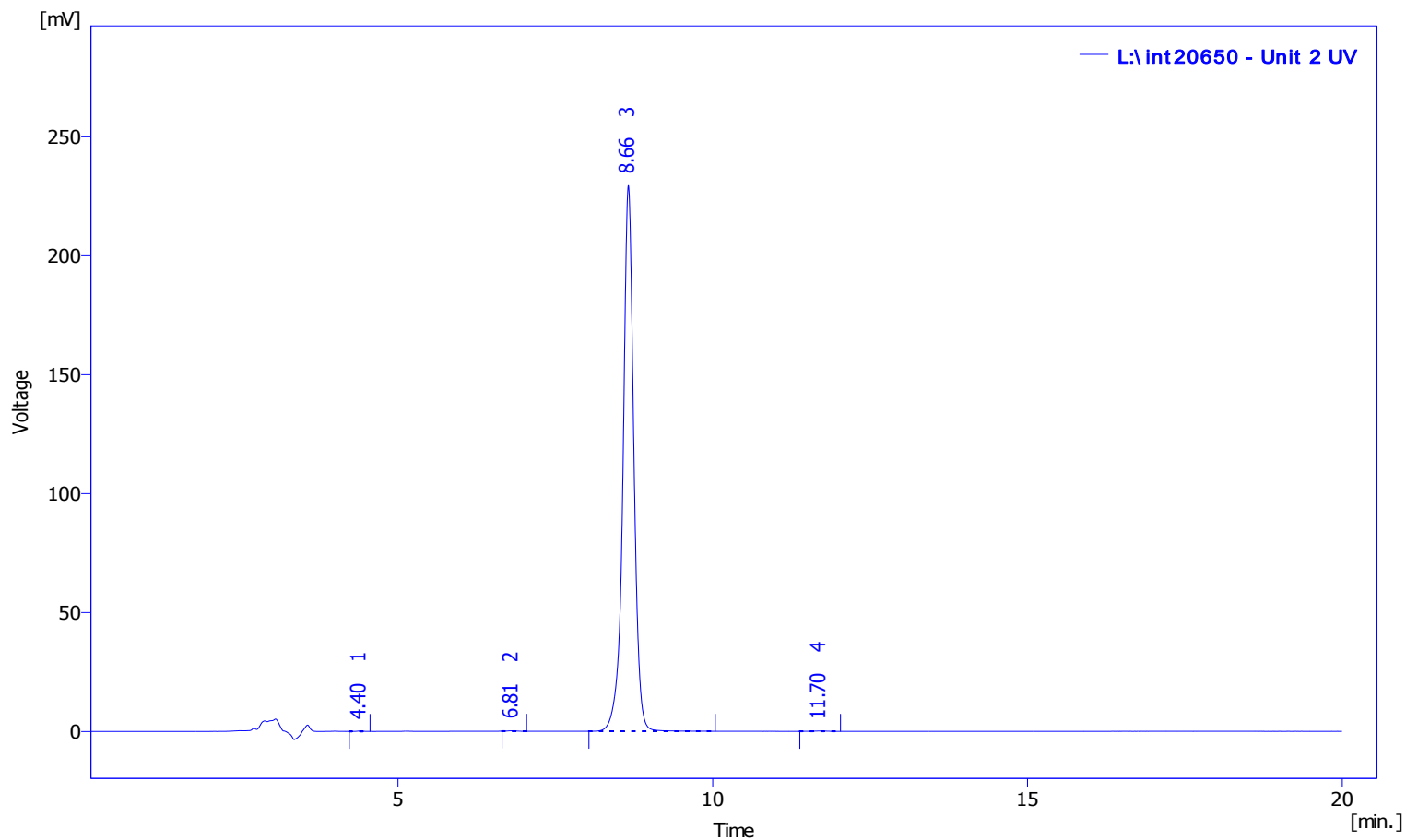
Result Table (Uncal - L:\int20650 - Unit 2 Radio)

	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		8.95	14060.125	618.47	100.00	100.00	4428.68	88573.66	1.54		
		Total	14060.125	618.47	100.00	100.00					

MT1608
Adefovir Dipivoxil, [8-3H]-
Lot 194-146-0048-A-20100707-DG

Chromatogram Info:

File Name	: L:\int20650	File Created	: 3/26/2014 11:41:52 AM
Origin	: Acquired, Acquisition started 8/11/2010 11:35:30 AM	Acquired Date	: 8/11/2010 11:55:30 AM
Project	: Test	By	: Administrator
Method	: unit2-20minrun	By	: Administrator
Description	: UV trace of 3H material co-injected with standard	Modified	: 3/26/2014 12:04 PM
Created	: 8/8/2007 9:12 AM		
Column	:	Detection	: UV 260nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



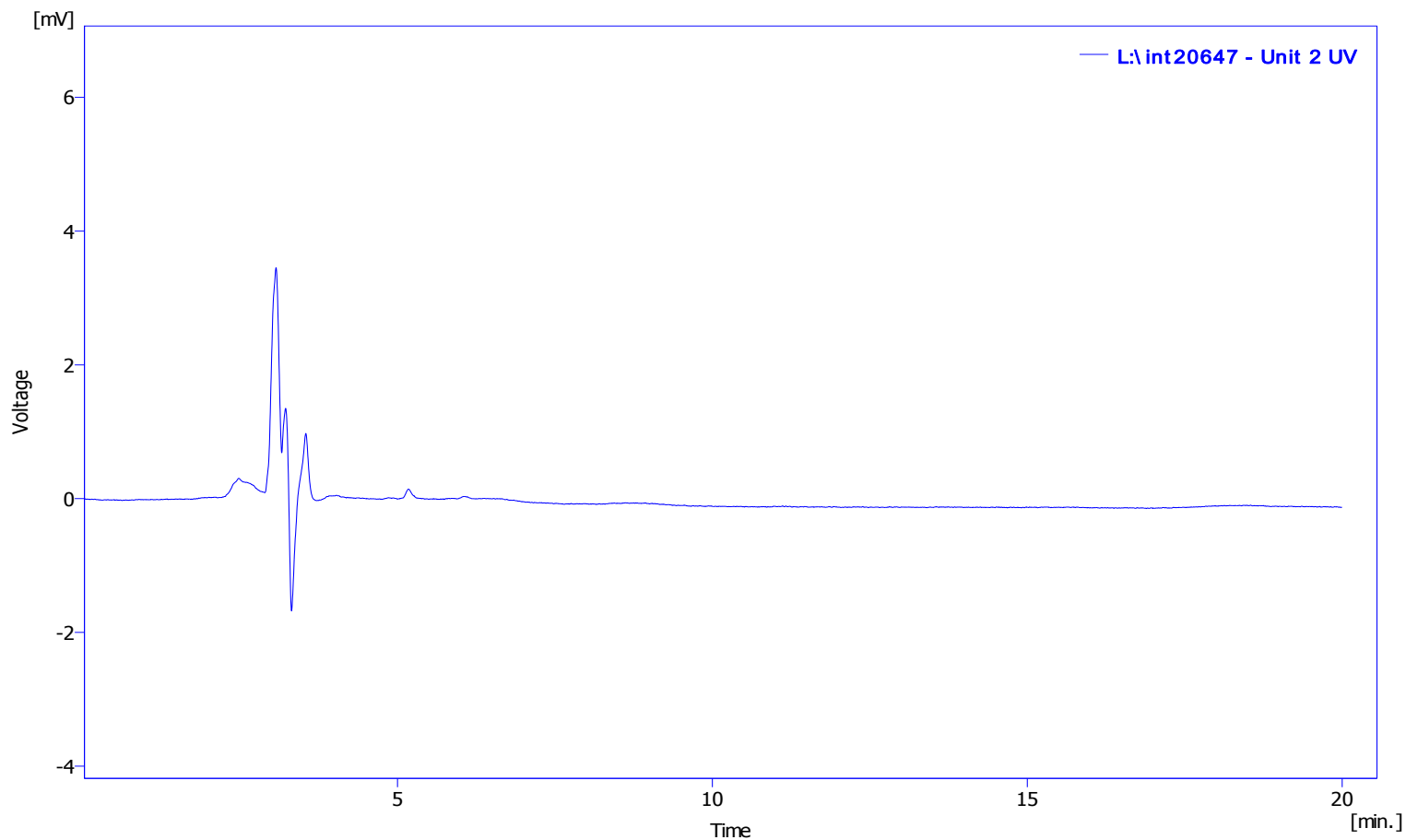
Result Table (Uncal - L:\int20650 - Unit 2 UV)

	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		4.40	1.087	0.18	0.04	0.08	13221.23	264424.58	1.13		
2		6.81	1.694	0.18	0.06	0.08	11943.76	238875.24	1.12		12.0
3		8.66	2747.218	229.47	99.82	99.78	13828.70	276574.01	0.95		6.8
4		11.70	2.069	0.14	0.08	0.06	14335.93	286718.56	1.00		8.9
		Total	2752.066	229.97	100.00	100.00					

MT1608
Adefovir Dipivoxil, [8-3H]-
Lot 194-146-0048-A-20100707-DG

Chromatogram Info:

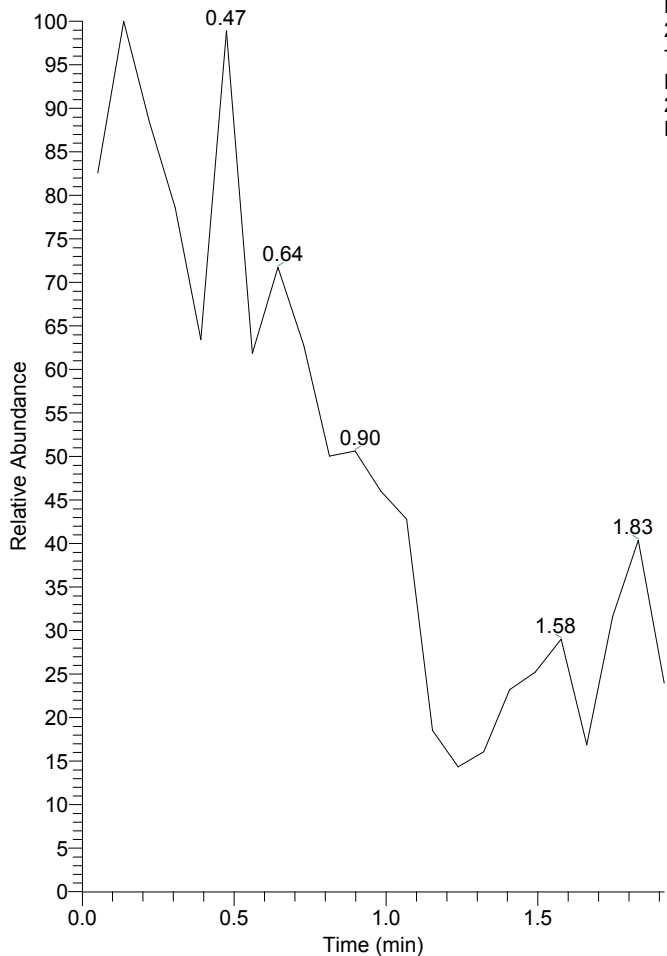
File Name	: L:\int20647	File Created	: 3/26/2014 11:41:53 AM
Origin	: Acquired, Acquisition started 8/11/2010 9:57:07 AM	Acquired Date	: 8/11/2010 10:17:07 AM
Project	: Test	By	: Administrator
Method	: unit2-20minrun	By	: Administrator
Description	: UV trace of blank injection	Modified	: 3/26/2014 12:05 PM
Created	: 8/8/2007 9:12 AM		
Column	:	Detection	: UV 260nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



Result Table (Uncal - L:\int20647 - 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 [-]
No peak to report										

RT: 0.00 - 1.92



NL:
2.27E9
TIC MS
MT1608-
20100707-
DG-MS

MT1608-20100707-DG-MS#1-23 RT: 0.05-1.92

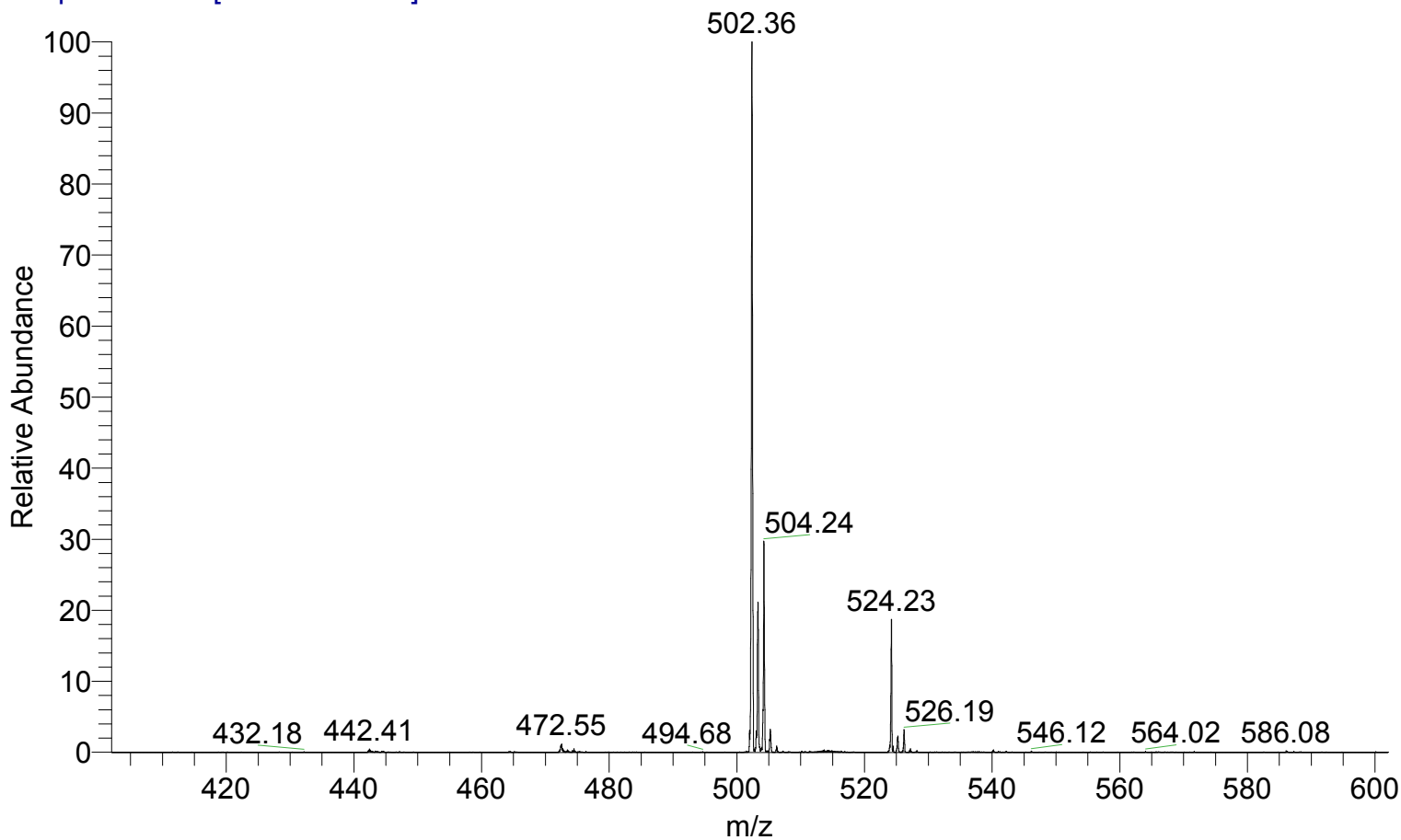
T: + p NSI Z ms [402.00-602.00]

m/z= 495.39-519.62

m/z	Intensity	Relative
500.38	62377.0	0.01
502.36	639593600.0	100.00
503.29	138410800.0	21.64
504.23	152558288.0	23.85
505.22	20507424.0	3.21
506.23	4185198.0	0.65
507.20	604058.8	0.09
508.19	286791.9	0.04
510.11	457933.6	0.07
510.73	298674.1	0.05
511.51	459324.3	0.07
513.28	4538266.0	0.71
514.79	4681743.5	0.73
516.33	845119.9	0.13
516.95	353549.1	0.06
517.48	64705.4	0.01
518.21	145975.5	0.02
518.78	22614.5	0.00

MT1608-20100707-DG-MS #1-23 RT: 0.05-1.92 AV: 23 NL: 1.44E7

T: + p NSI Z ms [402.00-602.00]



MT1608 3H NMR in MeOD
Batch 20100707-DG

88.248
88.245
88.181



BRUKER

NAME MT1608-20100707-DG
EXPNO 1
PROCNO 1
Date_ 20100811
Time_ 21.04
INSTRUM spect
PROBHD 5 mm DUX 3H-1H
PULPROG zg
TD 16384
SOLVENT MeOD
NS 5000
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

