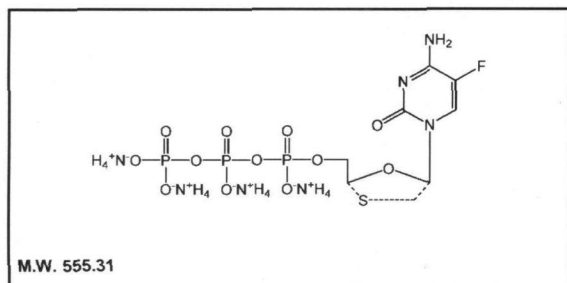




Product Data Sheet

M-1596

(-)-β-L-2',3'-Dideoxy-3'-thia-5-fluorocytidine-5'-triphosphate, tetraammonium salt

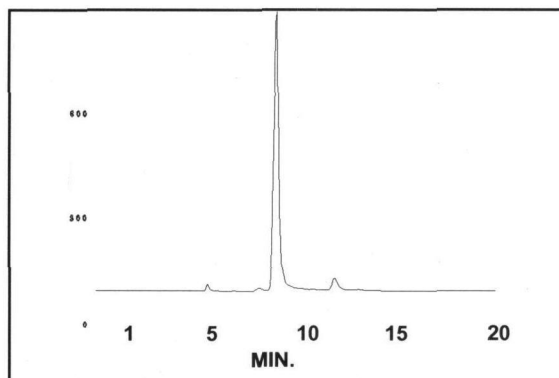


Lot #: 217-092-000-A-20120111-TNG

Packaged as: Solid

Date of Analysis: June 11, 2012

Chemical Purity @ 253nm : 93.1%



HPLC ANALYSIS LOT 217-092-000-A-20120111-TNG
File Name: int21694 Date and Time: 6/11/2012 2:24:18 PM
Unit 2 UV

Peak #	Area %	Time	Area
1	1.41	5.59670	21.14700
2	1.00	8.18330	14.99055
3	93.13	9.06000	1399.16983
4	4.46	11.95670	67.07796
Totals	100.00		1502.38534

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.

M-1596

(-)- β -L-2',3'-Dideoxy-3'-thia-5-fluorocytidine-5'-triphosphate, tetrammonium salt

Lot 217-092-000-A-20120111-TNG

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

Concentrations and volumes:

(-)- β -L-2',3'-Dideoxy-3'-thia-5-fluorocytidine-5'-triphosphate, tetrammonium salt concentration was 2.0 mg/ml.

Volume of **(-)- β -L-2',3'-Dideoxy-3'-thia-5-fluorocytidine-5'-triphosphate, tetrammonium salt** injection was 2.0 μ l.

B) Mass spectrometry – Negative mode

C) NMR

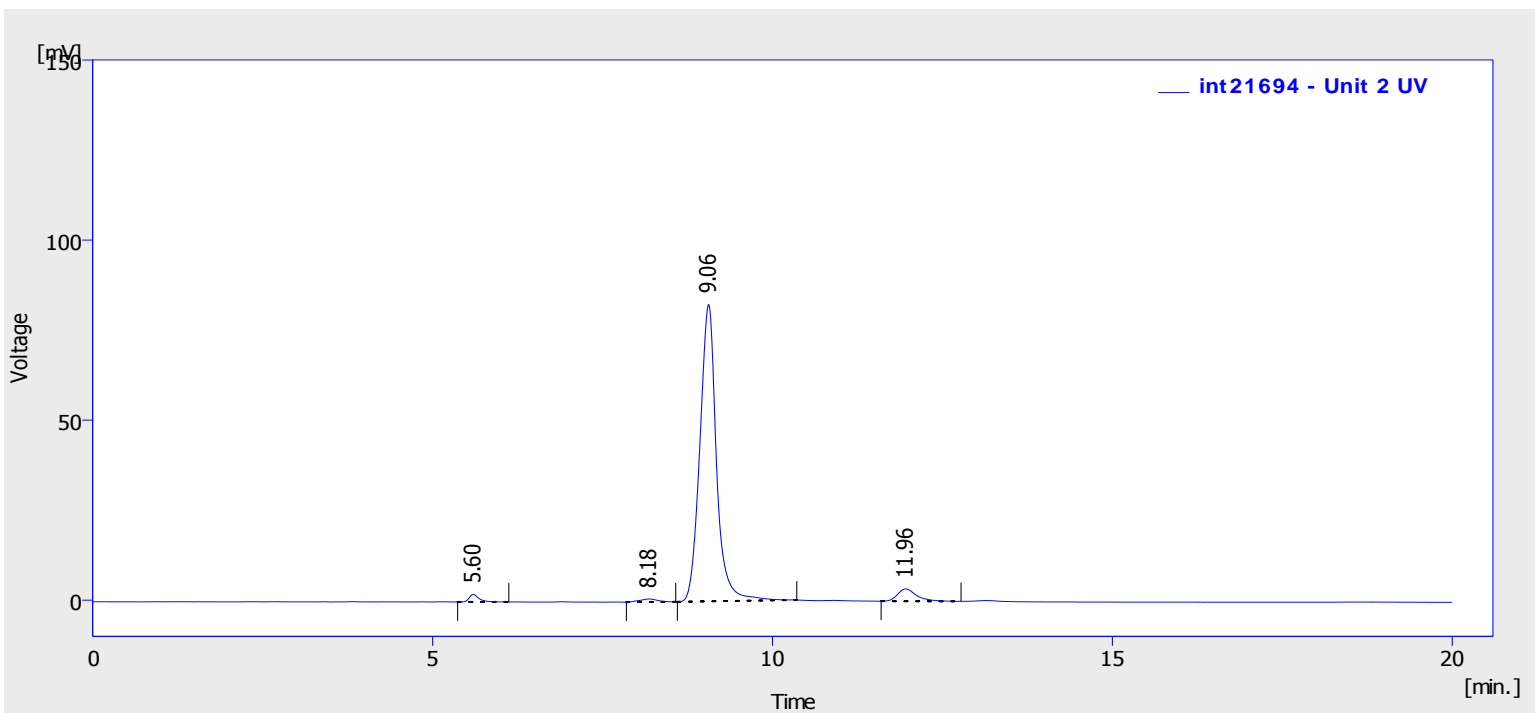
D) UV spectrum

M-1596

(-)-β-L-2',3'-Dideoxy-3'-thia-5-fluorocytidine-5'-triphosphate, tetrammonium salt
Lot 217-092-000-A-20120111-TNG

Chromatogram Info:

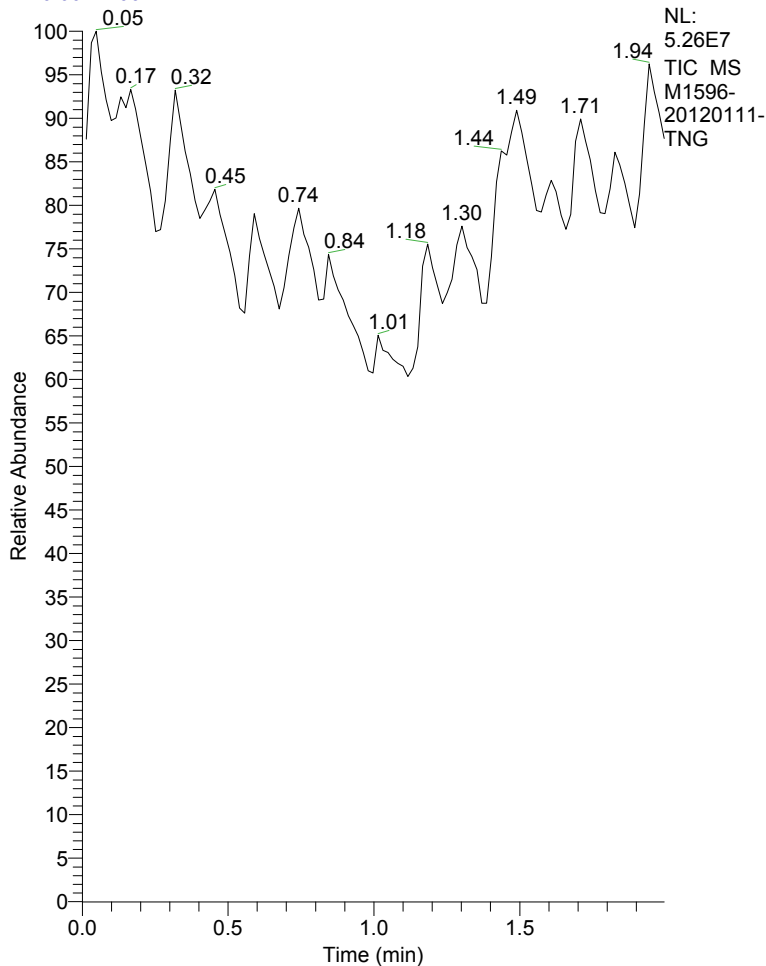
File Name	: int21694	File Created	: 6/11/2012 2:24:18 PM
Origin	: Acquired	Acquired Date	: 6/11/2012 2:24:18 PM
Project	: Test	By	: Administrator
Method	: unit2-20minrun	By	: Administrator
Description	: UV trace of (-)-β-L-2',3'-Dideoxy-3'-thia-5-fluorocytidine-5'-triphosphate, tetrammonium salt		
Created	: 8/8/2007 9:12 AM	Modified	: 6/12/2012 11:44 AM
Column	:	Detection	: 253 nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



Result Table (Uncal - int21694 - Unit 2 UV)

	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	W05 [min]
1	5.597	21.147	2.097	1.41	2.4	0.15
2	8.183	14.991	0.831	1.00	0.9	0.28
3	9.060	1399.170	82.423	93.13	92.8	0.25
4	11.957	67.078	3.428	4.46	3.9	0.28
	Total	1502.385	88.779	100.00	100.0	

RT: 0.00 - 1.99



M1596-20120111-TNG#1-118 RT: 0.01-1.99

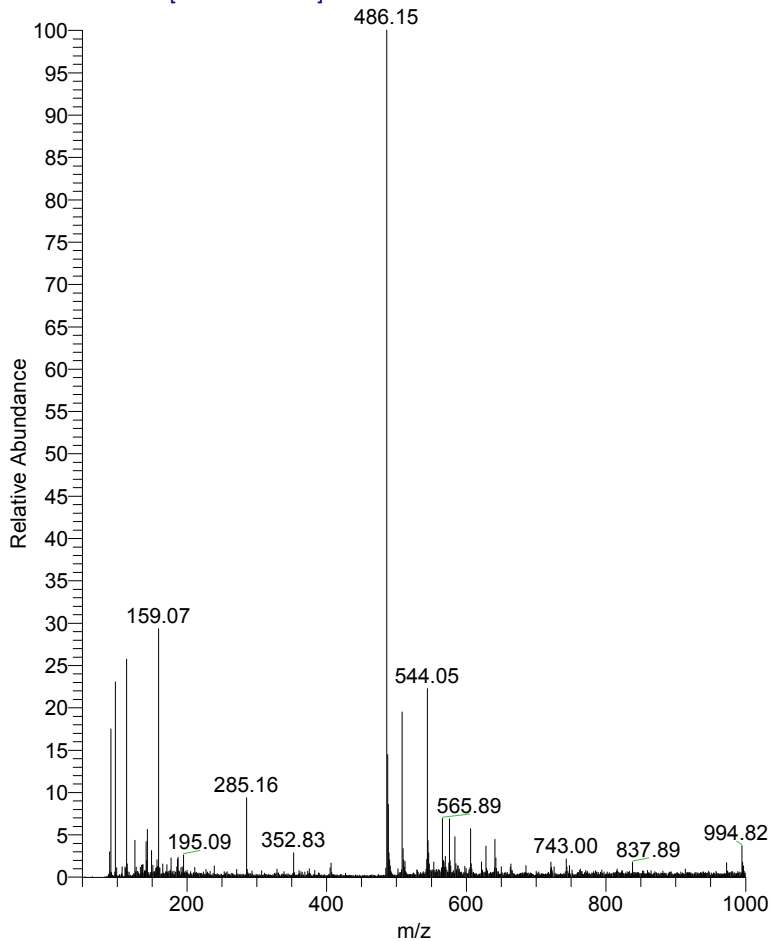
T: - c NSI Full ms [50.00-1000.00]

m/z= 476.32-522.76

m/z	Intensity	Relative
484.51	56546.2	1.06
486.15	5349479.3	100.00
487.32	773828.9	14.47
488.23	458650.7	8.57
489.18	153331.7	2.87
490.10	108754.9	2.03
490.97	69369.6	1.30
491.84	38273.8	0.72
492.68	28076.0	0.52
502.11	52162.5	0.98
504.06	28136.6	0.53
505.17	27082.0	0.51
506.02	27280.1	0.51
507.14	45228.6	0.85
508.17	1041866.3	19.48
509.27	179796.8	3.36
510.20	108905.8	2.04
511.18	60748.1	1.14
512.16	97118.0	1.82
513.20	35687.5	0.67

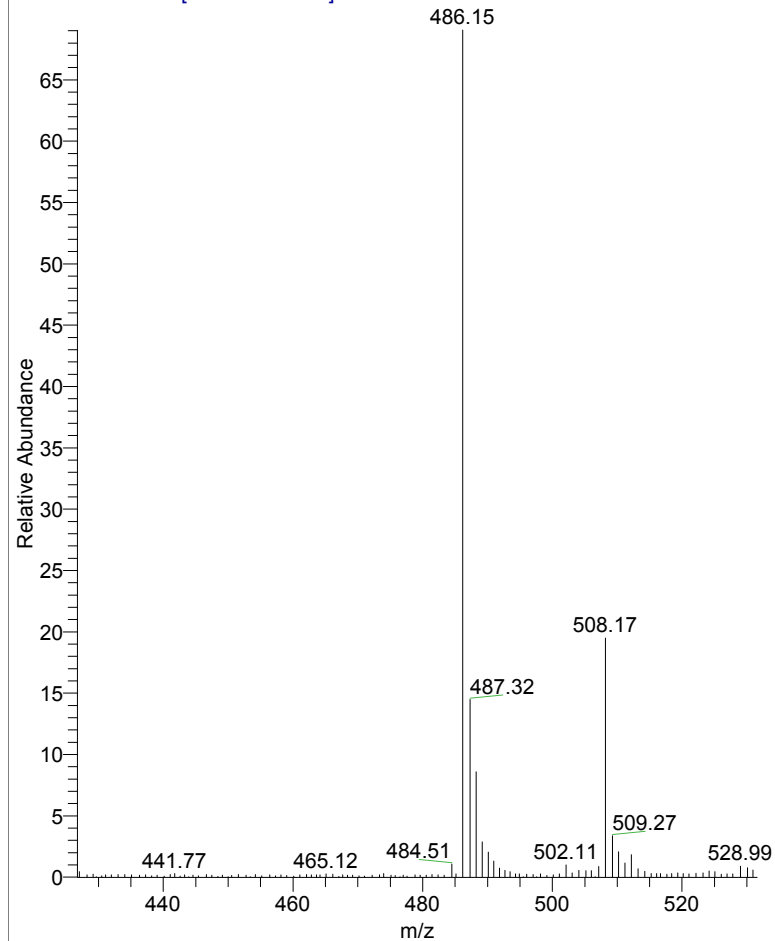
M1596-20120111-TNG #1-118 RT: 0.01-1.99 AV: 118 NL: 5.35E6

T: - c NSI Full ms [50.00-1000.00]

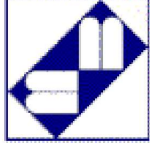


M1596-20120111-TNG #1-118 RT: 0.01-1.99 AV: 118 NL: 5.35E6

T: - c NSI Full ms [50.00-1000.00]

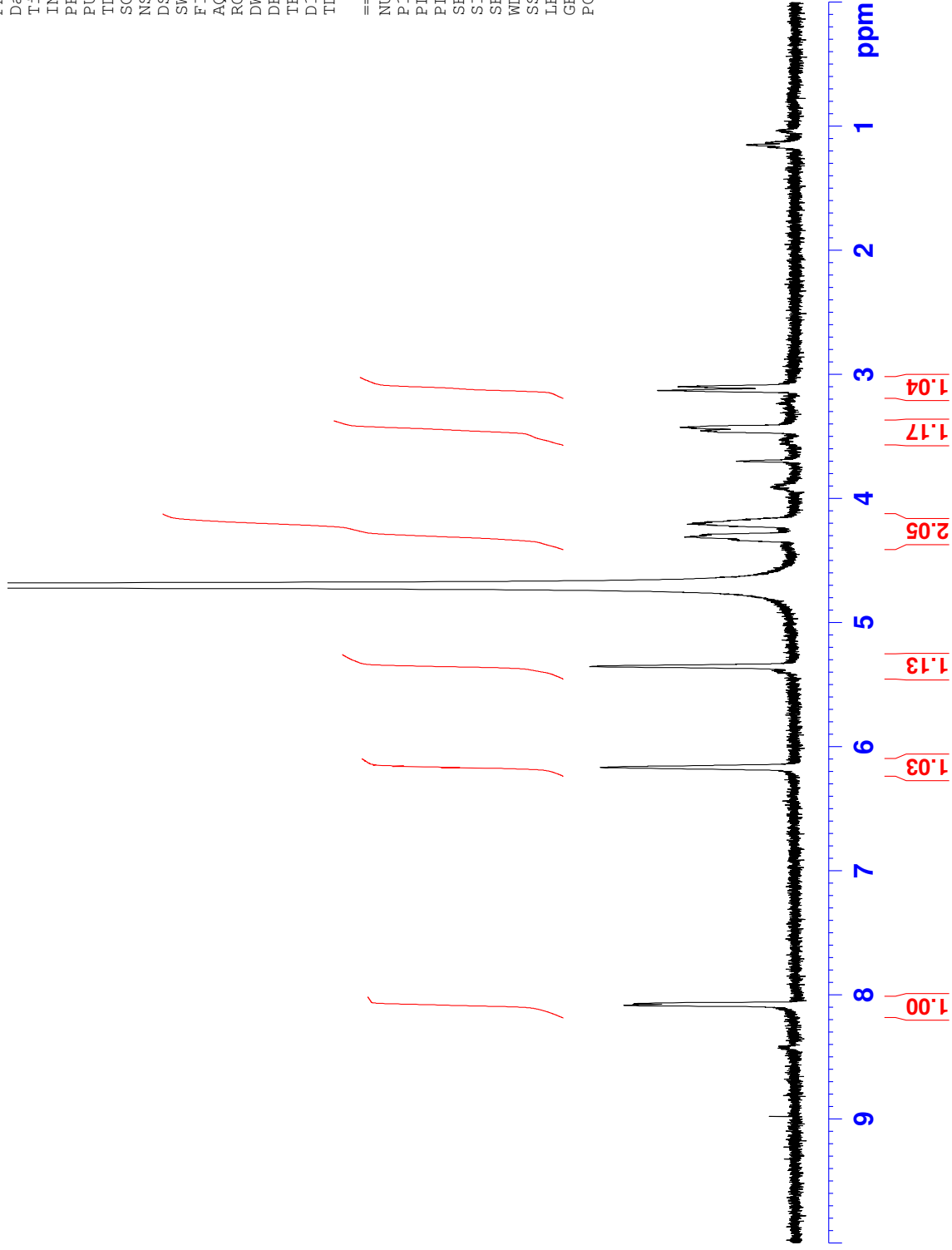


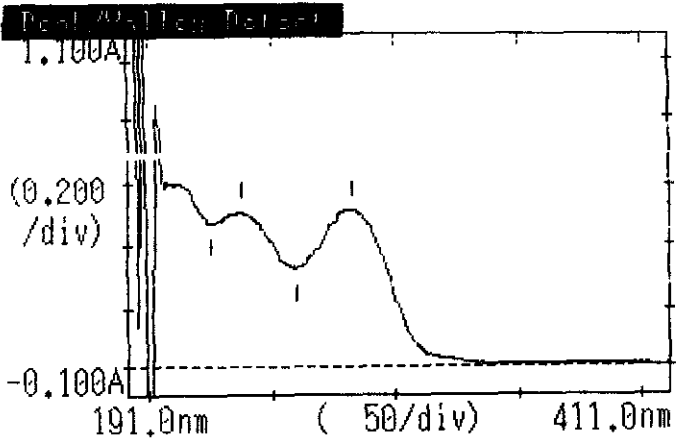
M1596 1H NMR in D2O
Batch 20120111-TNG



8.083
8.071
6.165
5.353
4.308
4.206
4.196
3.454
3.424
3.126
3.097

NAME M1596-20120111-TNG
EXPNO 1
PROCNO 1
Date_ 20120611
Time 8.40
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 65536
SOLVENT D2O
NS 512
DS 2
SWH 8278.146 Hz
FIDRES 0.126314 Hz
AQ 3.9584243 sec
RG 4
DW 60.400 usec
DE 6.50 usec
TE 293.6 K
D1 1.00000000 sec
TD0 1
===== CHANNEL f1 =====
NUC1 1H
P1 14.50 usec
PL1 -0.70 dB
PL1W 10.03411102 W
SF01 400.1324710 MHz
SI 32768
SF 400.1300000 MHz
WDW no
SSB 0
LB 0.00 Hz
GB 0
PC 1.00





Date: 2012/06/11 13:15:50
 Measure mode: Abs
 Scan range / nm: 411.0 - 191.0
 Scan pitch / nm: 1.0
 Scan speed: Fast
 Slit width / nm: 1.0

Peak	
282.00	0.509
237.00	0.502
Valley	
260.00	0.324
225.00	0.466