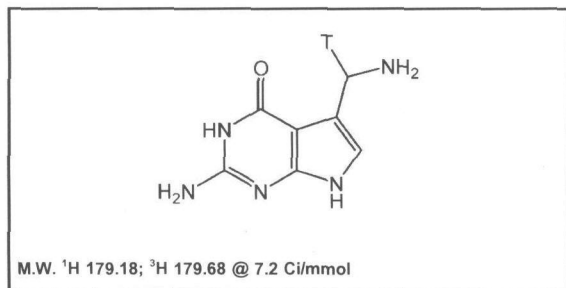




## Product Data Sheet

**MT-1938**

**7-Aminomethyl-7-deazaguanine, [8-<sup>3</sup>H(N)]-**



**Lot #:** 211-112-0072-A-20100401-JP

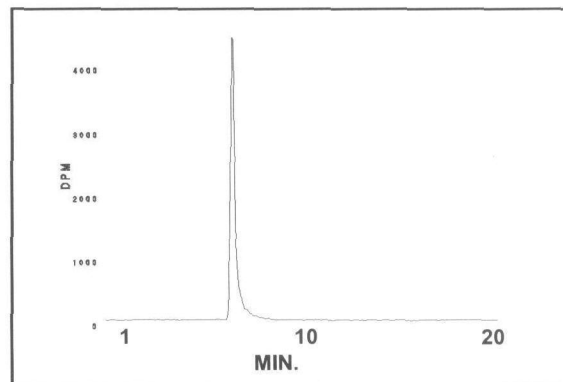
**Specific Activity:** 7.2 Ci/mmol

**Concentration:** 1.0 mCi/ml; 24.96 µg/ml

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

**Date of Analysis:** March 25, 2011

**Radiochemical Purity:** 99.5%



HPLC ANALYSIS LOT 211-112-0072-A-20100401-JP  
File Name: int21021 Date and Time: 3/25/2011 12:05:51 P  
Unit 2 Radio

Peak #	Area %	Time	Area
1	99.49	6.44830	7969.61784
2	0.26	7.16170	20.62395
3	0.25	7.68170	20.15439
Totals	100.00		8010.39618

**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-1938**

**7-Aminomethyl-7-deazaguanine, [methylene-<sup>3</sup>H(N)]-**

**Lot 211-112-0072-A-20100401-JP**

**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.

<sup>3</sup>H Material concentration was 0.1 mCi/ml.

Volume of standard alone injection was 1.0 µl.

Volume of <sup>3</sup>H Material alone injection was 1.0 µl.

Co-injection solution consisted of 2.0 µl <sup>3</sup>H Material + 2.0 µl standard.

Volume of co-injection was 4.0 µl.

Volume of blank injection was 1.0 µl.

**B) Mass spectrometry - Positive mode**

**C) NMR**

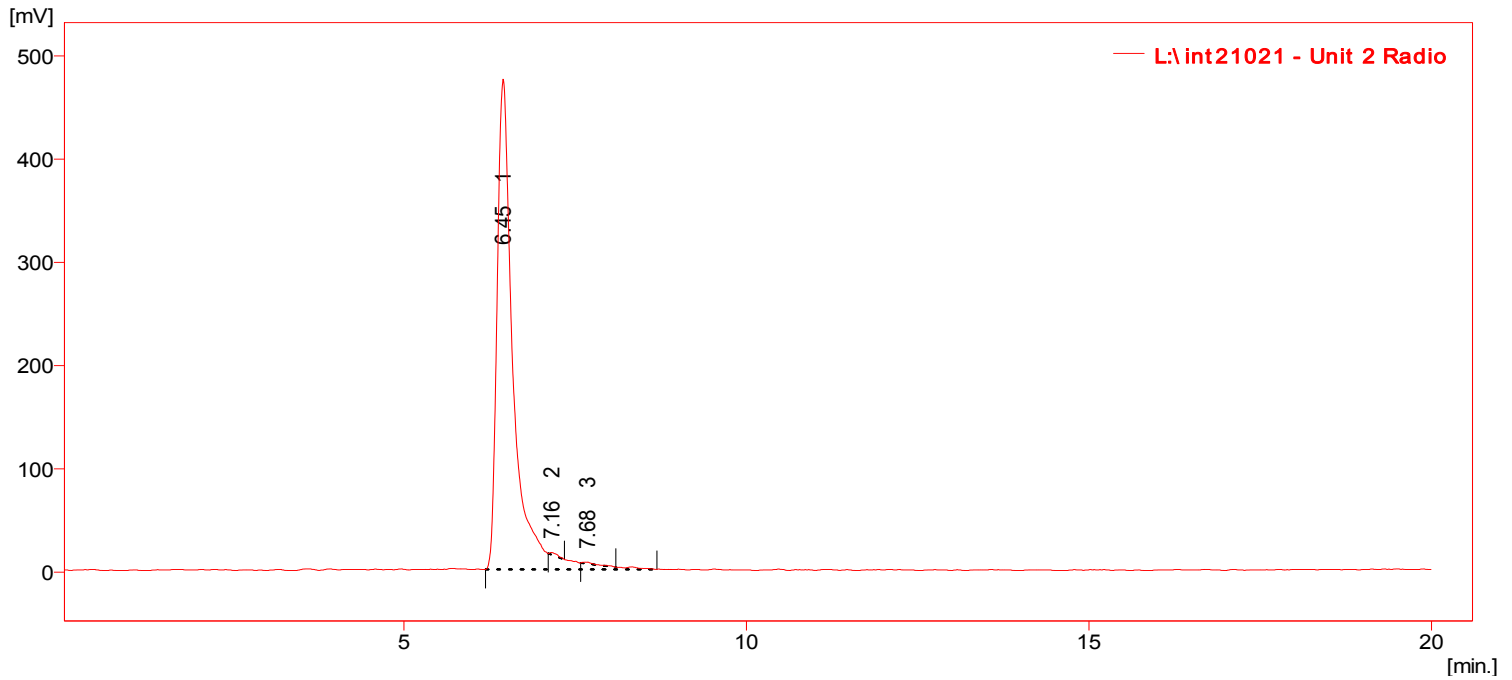
**MT-1938**  
**7-Aminomethyl-7-deazaguanine, [methylene-3H(N)]-**  
**Lot 211-112-0072-A-20100401-JP**

## Chromatogram Info:

File Name : L:\int21021 File Created : 4/17/2014 8:54:04 AM  
 Origin : Acquired, Acquisition started 3/25/2011 11:45:51 AM Acquired Date : 3/25/2011 12:05:51 PM  
 Project : Work1 By : Administrator

Method : unit2-20minrun By : Administrator  
 Description : Radiochemical trace of 3H material alone  
 Created : 8/8/2007 9:12 AM Modified : 4/17/2014 9:08 AM

Column : Detection : Radiochemical  
 Mobile Phase : Temperature :  
 Flow Rate : Pressure :  
 Note :



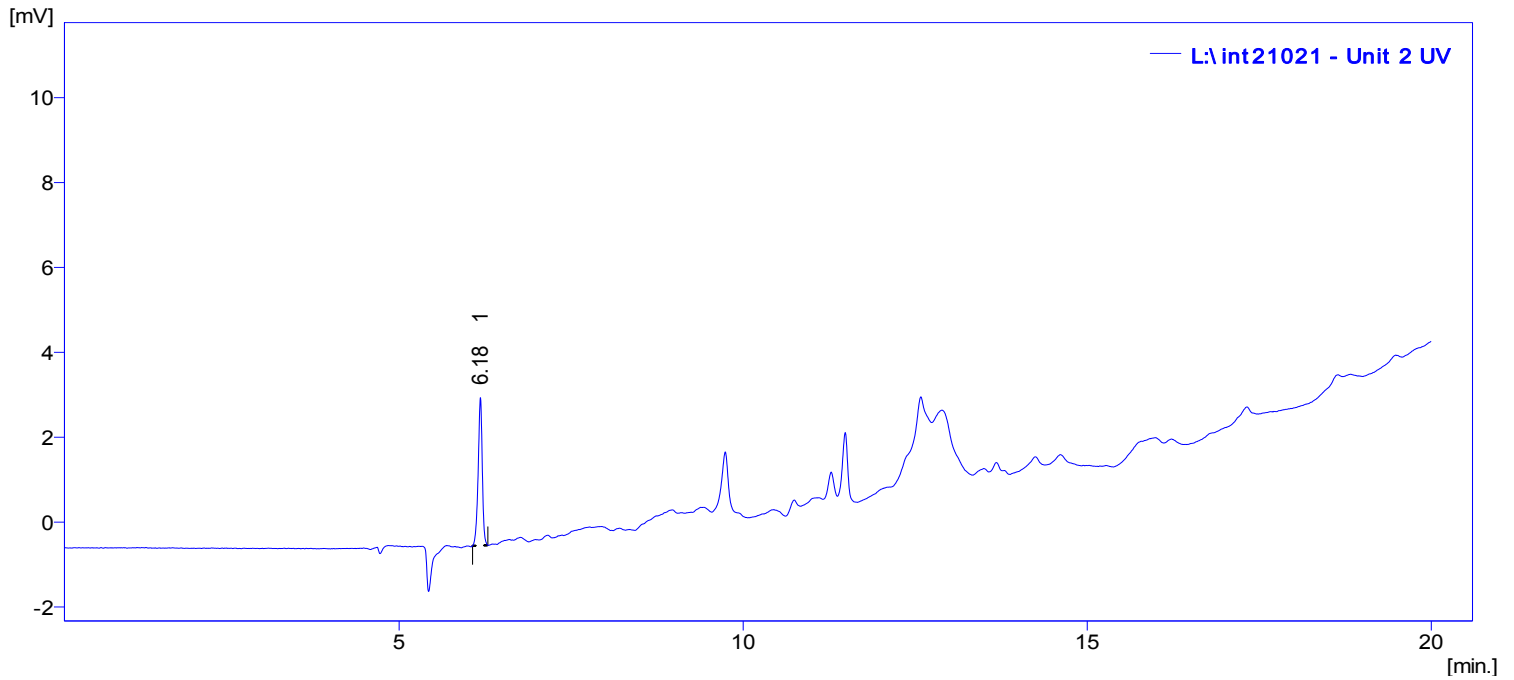
Result Table (Uncal - L:\int21021 - Unit 2 Radio)

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	6.45	7970.125	474.94	99.50	99.2	0.22	4905	98090		4.88	
2	7.16	20.857	2.36	0.26	0.5	0.10	30394	607872	2.69	2.30	
3	7.68	19.263	1.64	0.24	0.3	0.13	18380	367608	2.67	2.52	
Total		8010.245	478.93	100.00	100.0						

**MT-1938**  
**7-Aminomethyl-7-deazaguanine, [methylene-3H(N)]-**  
**Lot 211-112-0072-A-20100401-JP**

Chromatogram Info:

File Name	: L:\int21021	File Created	: 4/17/2014 8:54:04 AM
Origin	: Acquired, Acquisition started 3/25/2011 11:45:51 AM	Acquired Date	: 3/25/2011 12:05:51 PM
Project	: Work1	By	: Administrator
Method	: unit2-20minrun	By	: Administrator
Description	: UV trace of 3H material alone	Modified	: 4/17/2014 9:05 AM
Created	: 8/8/2007 9:12 AM		
Column	:	Detection	: UV 256nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



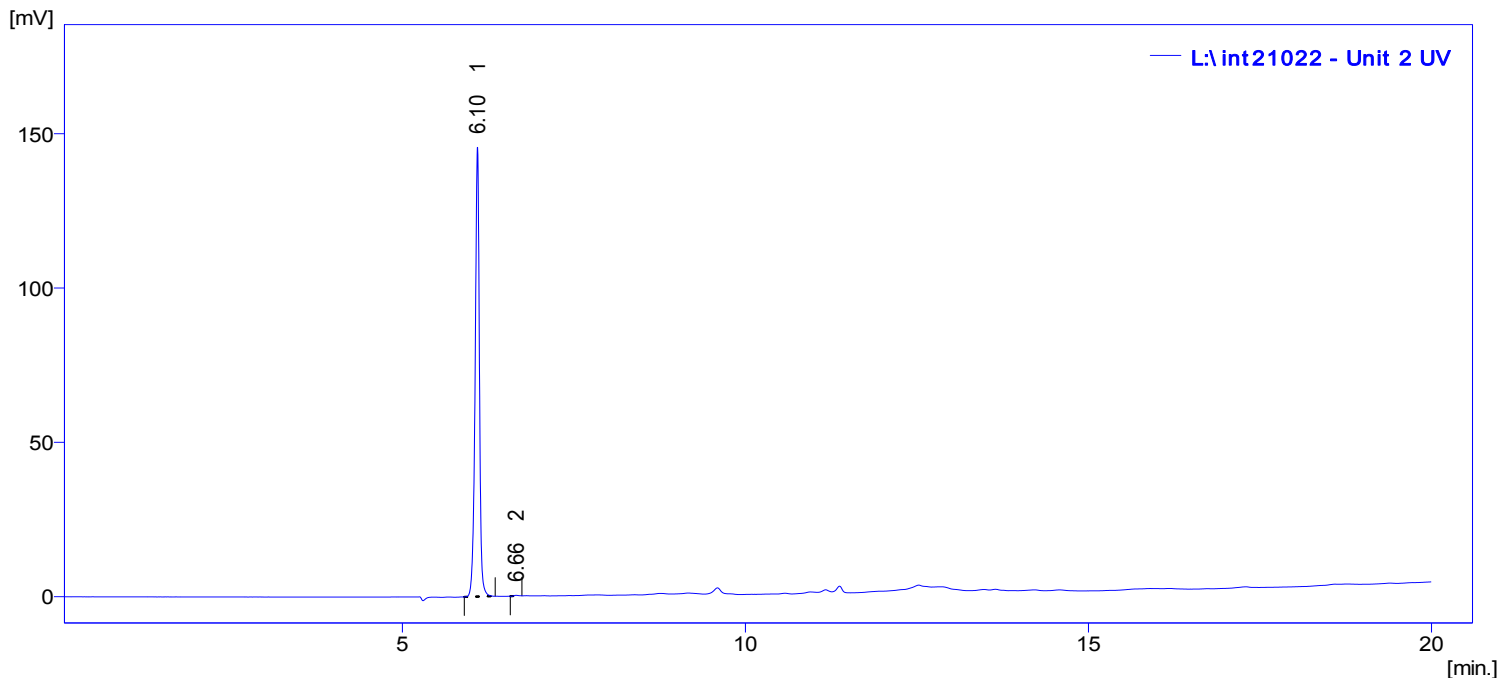
Result Table (Uncal - L:\int21021 - Unit 2 UV)

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	6.18	14.486	3.48	100.00	100.0	0.07	47607	952137		0.92	
Total		14.486	3.48	100.00	100.0						

**MT-1938**  
**7-Aminomethyl-7-deazaguanine, [methylene-3H(N)]-**  
**Lot 211-112-0072-A-20100401-JP**

## Chromatogram Info:

File Name	: L:\int21022	File Created	: 4/17/2014 8:54:04 AM
Origin	: Acquired, Acquisition started 3/25/2011 3:18:27 PM	Acquired Date	: 3/25/2011 3:38:26 PM
Project	: Work1	By	: Administrator
Method	: unit2-20minrun	By	: Administrator
Description	: UV trace of standard material alone	Modified	: 4/17/2014 9:09 AM
Created	: 8/8/2007 9:12 AM		
Column	:	Detection	: UV 256nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



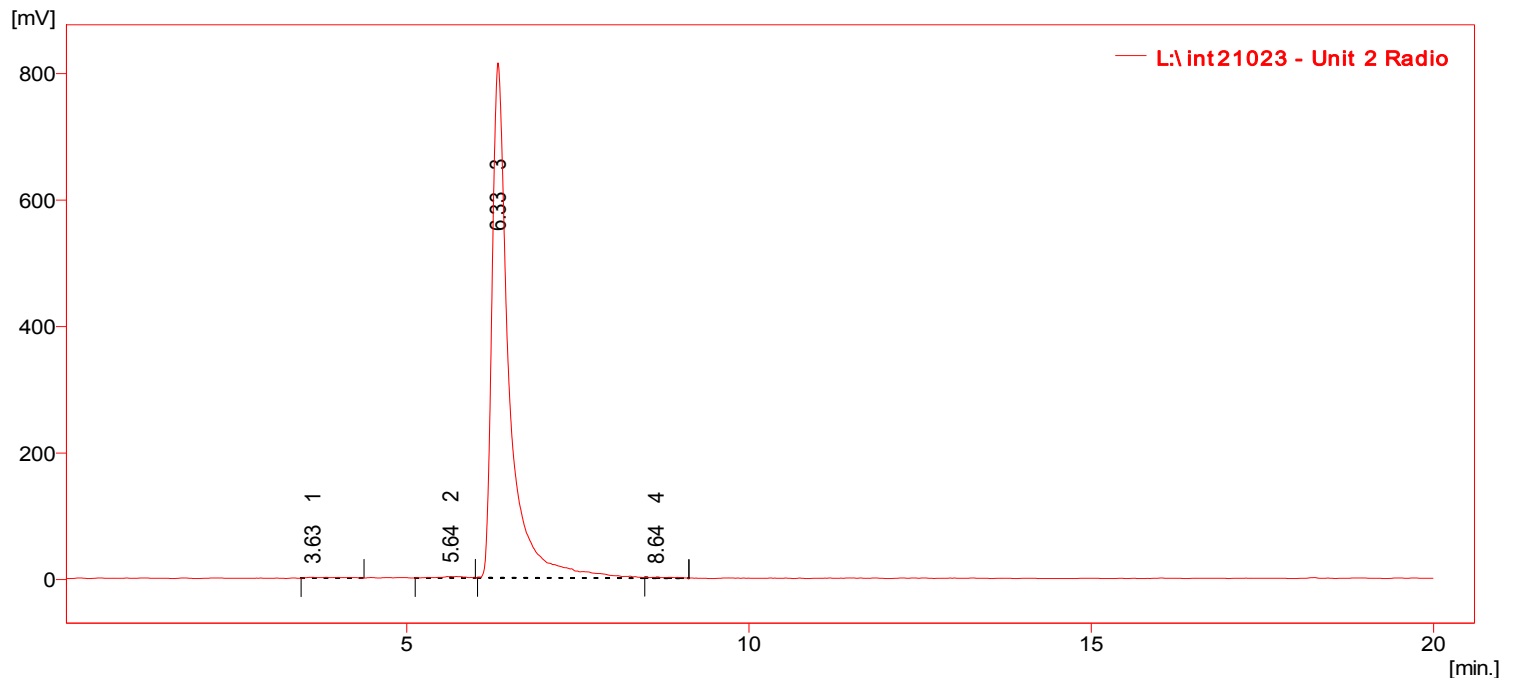
Result Table (Uncal - L:\int21022 - Unit 2 UV)

	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		6.10	635.473	145.58	99.84	99.8	0.07	46332	926632		0.91	
2		6.66	1.009	0.23	0.16	0.2	0.08	41807	836132	4.64	1.05	
	Total		636.482	145.81	100.00	100.0						

**MT-1938**  
**7-Aminomethyl-7-deazaguanine, [methylene-3H(N)]-**  
**Lot 211-112-0072-A-20100401-JP**

## Chromatogram Info:

File Name	: L:\int21023	File Created	: 4/17/2014 8:54:04 AM
Origin	: Acquired, Acquisition started 3/25/2011 4:05:46 PM	Acquired Date	: 3/25/2011 4:25:45 PM
Project	: Work1	By	: Administrator
Method	: unit2-20minrun	By	: Administrator
Description	: Radiochemical trace of 3H material co-injected with standard		
Created	: 8/8/2007 9:12 AM	Modified	: 4/17/2014 9:12 AM
Column	:	Detection	: Radiochemical
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



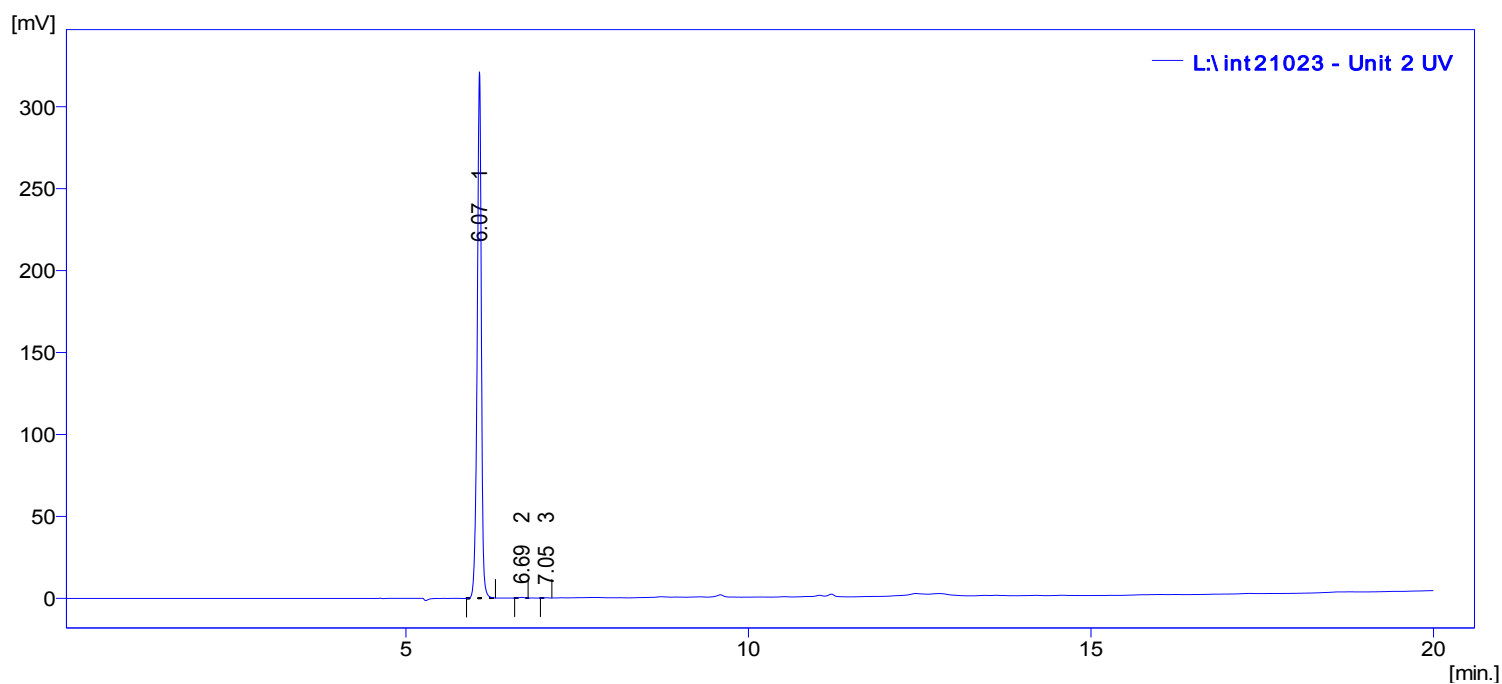
Result Table (Uncal - L:\int21023 - Unit 2 Radio)

	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		3.63	34.081	1.24	0.24	0.2	0.74	135	2690		2.64	
2		5.64	54.154	2.35	0.38	0.3	0.30	2005	40093	2.30	0.89	
3		6.33	14211.100	814.22	99.25	99.5	0.22	4455	89104	1.57	5.15	
4		8.64	19.340	0.69	0.14	0.1	0.10	41388	827756	8.43	2.36	
		Total	14318.675	818.50	100.00	100.0						

**MT-1938**  
**7-Aminomethyl-7-deazaguanine, [methylene-3H(N)]-**  
**Lot 211-112-0072-A-20100401-JP**

## Chromatogram Info:

File Name	: L:\int21023	File Created	: 4/17/2014 8:54:04 AM
Origin	: Acquired, Acquisition started 3/25/2011 4:05:46 PM	Acquired Date	: 3/25/2011 4:25:45 PM
Project	: Work1	By	: Administrator
Method	: unit2-20minrun	By	: Administrator
Description	: UV trace of 3H material co-injected with standard	Modified	: 4/17/2014 9:11 AM
Created	: 8/8/2007 9:12 AM		
Column	:	Detection	: UV 256nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



Result Table (Uncal - L:\int21023 - Unit 2 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
1	6.07	1351.311	321.13	99.80	99.8	0.06	50945	1018895		0.90	
2	6.69	2.008	0.43	0.15	0.1	0.08	42226	844523	5.23	0.94	
3	7.05	0.730	0.16	0.05	0.1	0.07	51153	1023068	2.78	0.96	
Total		1354.050	321.72	100.00	100.0						

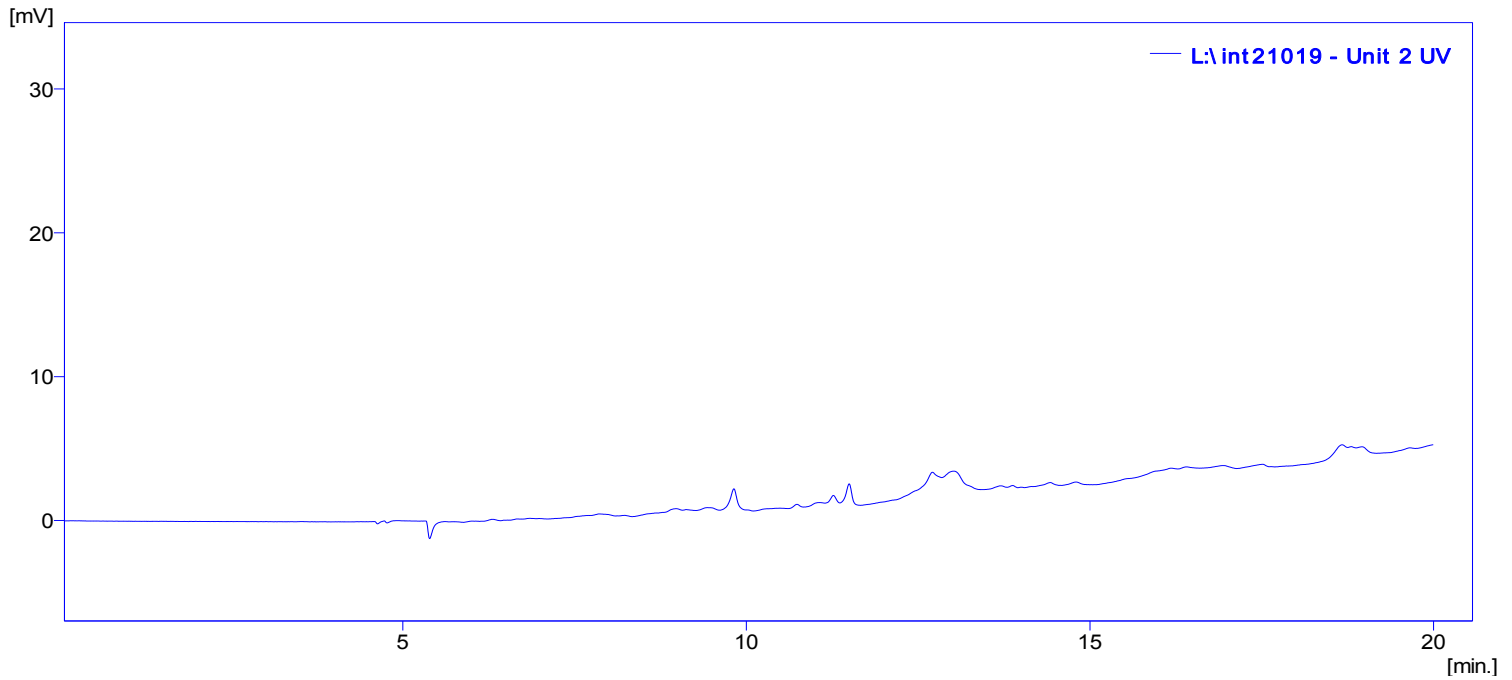
**MT-1938**  
**7-Aminomethyl-7-deazaguanine, [methylene-3H(N)]-**  
**Lot 211-112-0072-A-20100401-JP**

## Chromatogram Info:

File Name : L:\int21019 File Created : 4/17/2014 8:54:04 AM  
Origin : Acquired, Acquisition started 3/25/2011 10:30:09 AM Acquired Date : 3/25/2011 10:50:09 AM  
Project : Work1 By : Administrator

Method : unit2-20minrun By : Administrator  
Description : UV trace of blank injection  
Created : 8/8/2007 9:12 AM Modified : 4/17/2014 9:14 AM

Column : Detection : UV 256nm  
Mobile Phase : Temperature :  
Flow Rate : Pressure :  
Note :

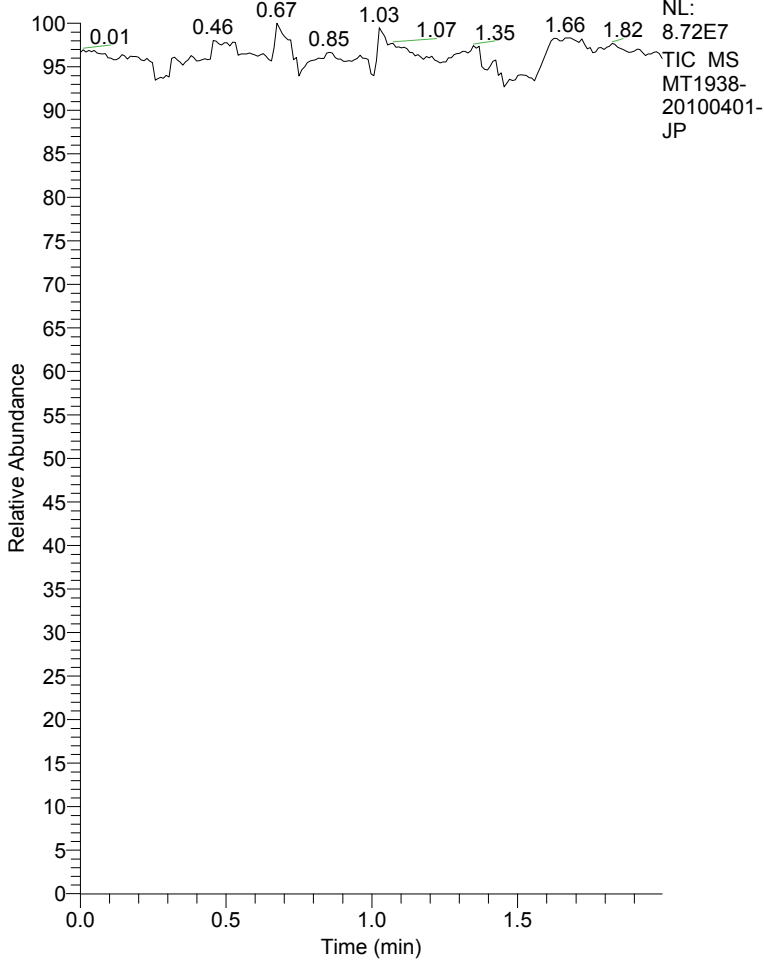


Result Table (Uncal - L:\int21019 - Unit 2 UV)

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 - 2.00



MT1938-20100401-JP#1-211 RT: 0.00-2.00

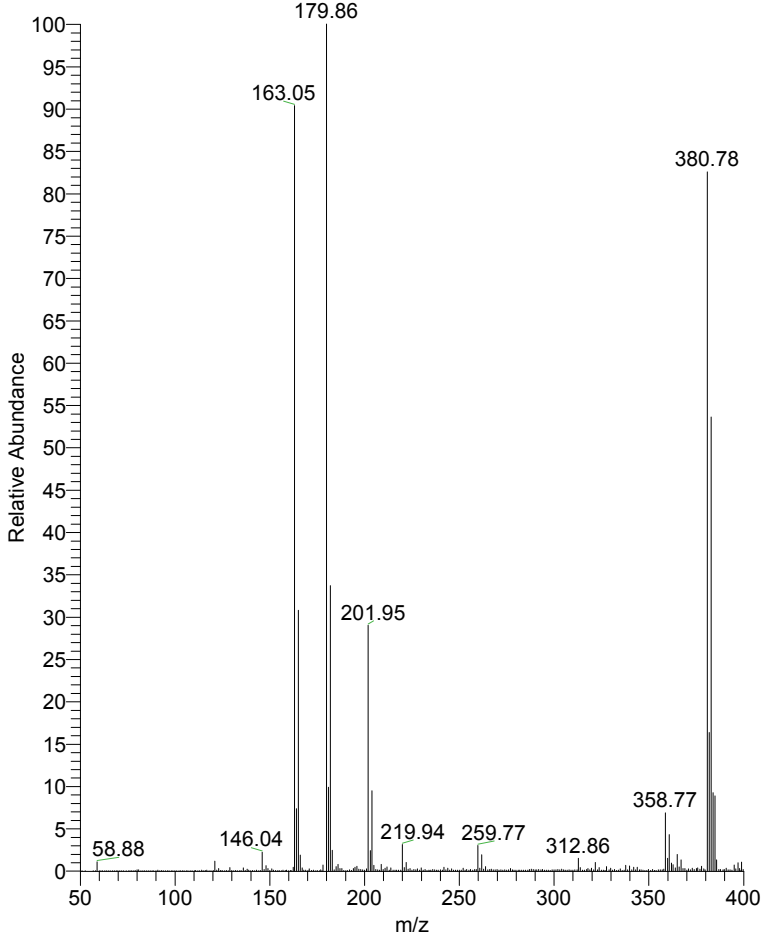
T: + c NSI Full ms [50.00-400.00]

m/z = 177.64-185.65

m/z	Intensity	Relative
178.13	101644.8	0.69
179.86	14736617.3	100.00
180.92	1455523.1	9.88
181.90	4963823.0	33.68
182.90	361395.0	2.45
183.91	21860.4	0.15
184.99	77002.6	0.52

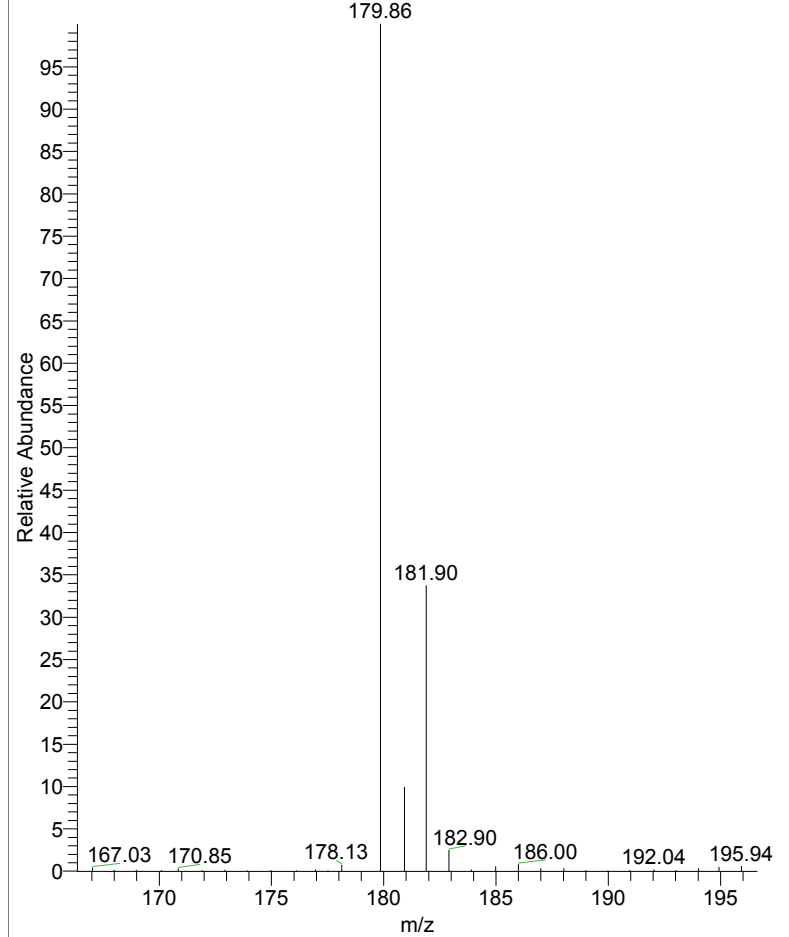
MT1938-20100401-JP #1-211 RT: 0.00-2.00 AV: 211 NL: 1.47E7

T: + c NSI Full ms [50.00-400.00]



MT1938-20100401-JP #1-211 RT: 0.00-2.00 AV: 211 NL: 1.47E7

T: + c NSI Full ms [50.00-400.00]



MT1938 3H NMR in MeOD  
Batch 20100401-JP



4.159  
4.113

NAME MT1938  
EXPNO 2  
PROCNO 1  
Date\_ 20100608  
Time\_ 13.05  
INSTRUM spect  
PROBHD 5 mm DUX 3H-1H  
PULPROG zg  
TD 16384  
SOLVENT MeOD  
NS 3791  
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

