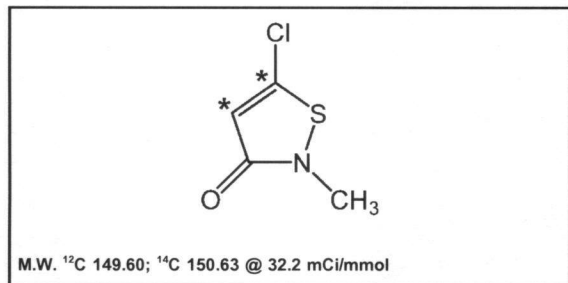




Product Data Sheet

MC-2357

CMIT, [4,5-¹⁴C]-



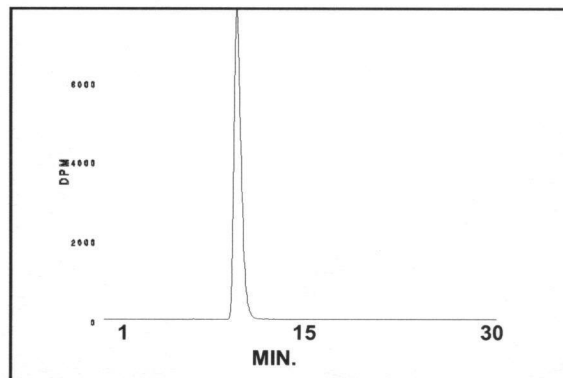
Lot #: 648-077-0322-A-20080524-JI

Specific Activity: 32.2 mCi/mmol

Packaged as: Solid

Date of Analysis: November 22, 2010

Radiochemical Purity: 99.6%



HPLC ANALYSIS LOT 648-077-0322-A-20080524-JI
File Name: int42736 Date and Time: 11/22/2010 4:50:35 P
Unit 4 Radio

Peak #	Area %	Time	Area
1	0.05	6.02330	15.62084
2	0.14	6.92670	41.66036
3	99.64	10.19330	29910.75009
4	0.01	11.59670	2.75768
5	0.14	12.06000	40.78931
6	0.02	13.56000	6.17301
Totals	100.00		30017.75129

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.

MC-2357

CMIT, [4,5-¹⁴C]-

Lot 648-077-0322-A-20080524-JI

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.

CMIT, [4,5-¹⁴C]- concentration was 100 µCi/ml.

Volume of standard alone injection was 4.0 µl.

Volume of **CMIT, [4,5-¹⁴C]-** alone injection was 1.0 µl.

Co-injection solution consisted of 0.5 µl **CMIT, [4,5-¹⁴C]-** + 4.0 µl standard.

Volume of co-injection was 4.5 µl.

Volume of blank injection was 1.0 µl.

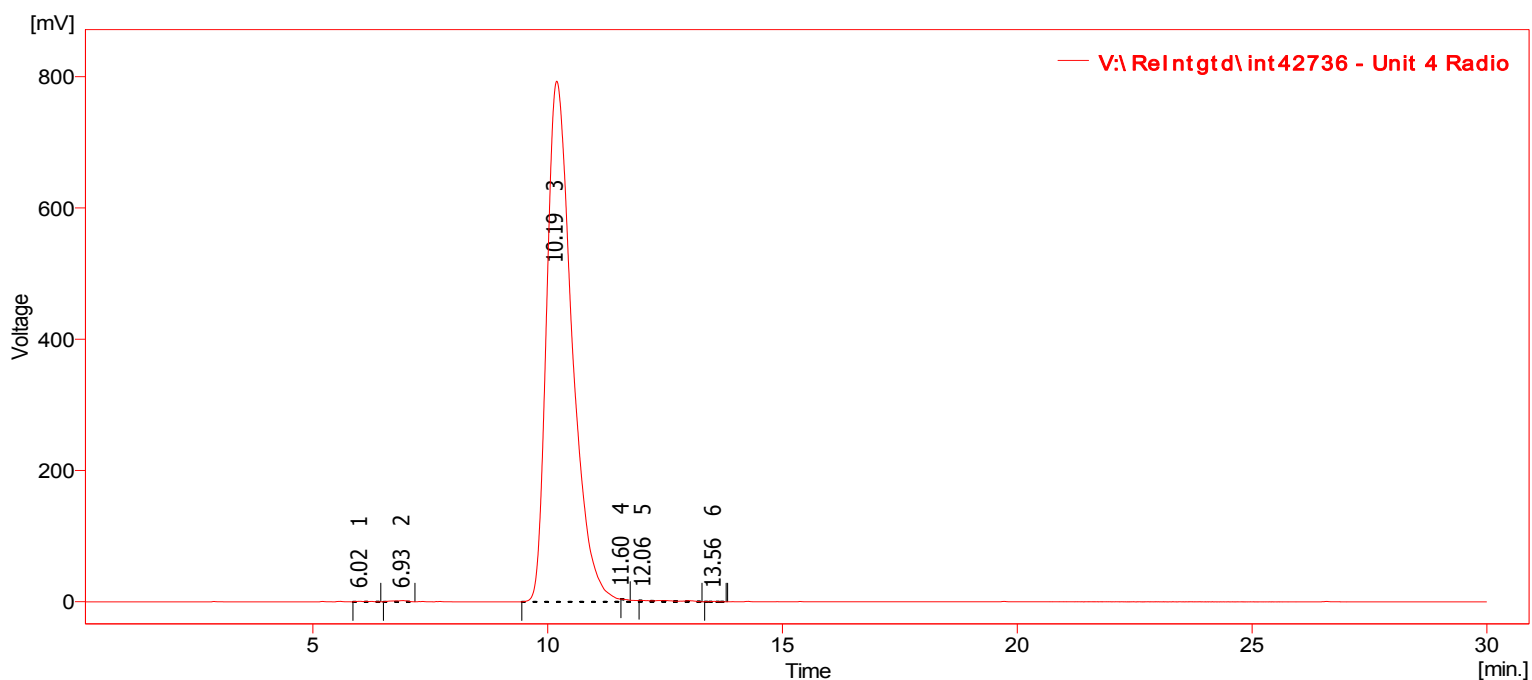
B) Mass spectrometry - Positive mode

C) NMR

MC-2357
CMIT, [4,5-14C]-
Lot 648-077-0322-A-20080524-JI

Chromatogram Info:

File Name	: V:\ReIntgtd\int42736	File Created	: 5/21/2014 11:40:08 AM
Origin	: Acquired, Acquisition started 11/22/2010 4:20:36 PM	Acquired Date	: 11/22/2010 4:50:35 PM
Project	: Work1	By	: Administrator
Method	: Unit4-30minrun	By	: Administrator
Description	: Radiochemical trace of 14C material alone	Modified	: 5/21/2014 11:42 AM
Created	: 8/7/2007 9:44 AM		
Column	:	Detection	: Radiochemical
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



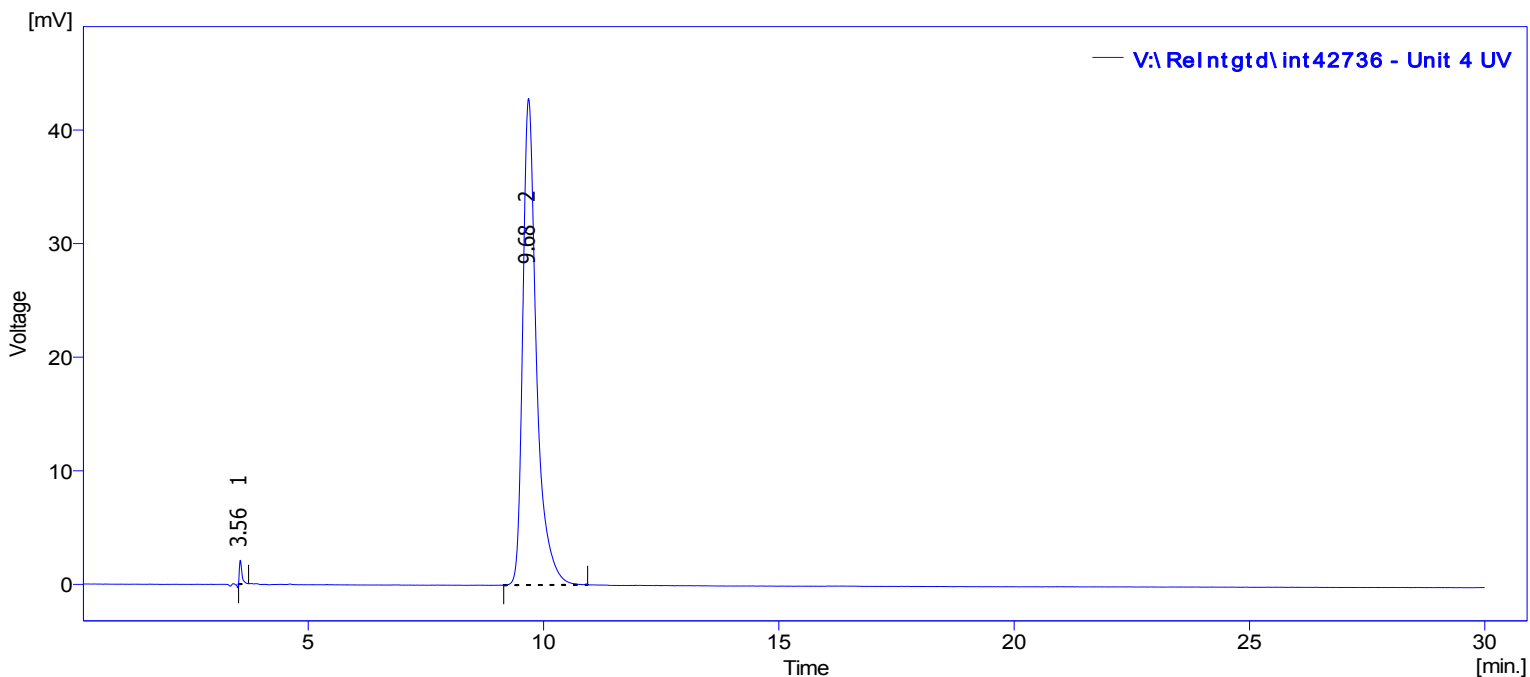
Result Table (Uncal - V:\ReIntgtd\int42736 - Unit 4 Radio)

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	6.02	15.621	0.76	0.05	0.1	0.17	6690	133798		1.59	
2	6.93	41.660	1.84	0.14	0.2	0.45	1313	26252	1.71	0.75	
3	10.19	29910.750	793.29	99.64	99.5	0.57	1793	35852	3.79	2.91	
4	11.60	2.758	0.40	0.01	0.0	0.05	261926	5238521	2.67	2.50	
5	12.06	40.789	0.41	0.14	0.1	0.13	47678	953559	2.98	5.76	
6	13.56	6.173	0.72	0.02	0.1	0.13	63490	1269797	6.90	1.04	
Total		30017.751	797.42	100.00	100.0						

MC-2357
CMIT, [4,5-14C]-
Lot 648-077-0322-A-20080524-JI

Chromatogram Info:

File Name	: V:\ReIntgtd\int42736	File Created	: 5/21/2014 11:40:08 AM
Origin	: Acquired, Acquisition started 11/22/2010 4:20:36 PM	Acquired Date	: 11/22/2010 4:50:35 PM
Project	: Work1	By	: Administrator
Method	: Unit4-30minrun	By	: Administrator
Description	: UV trace of 14C material alone		
Created	: 8/7/2007 9:44 AM	Modified	: 5/21/2014 11:40 AM
Column	:	Detection	: UV 254nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



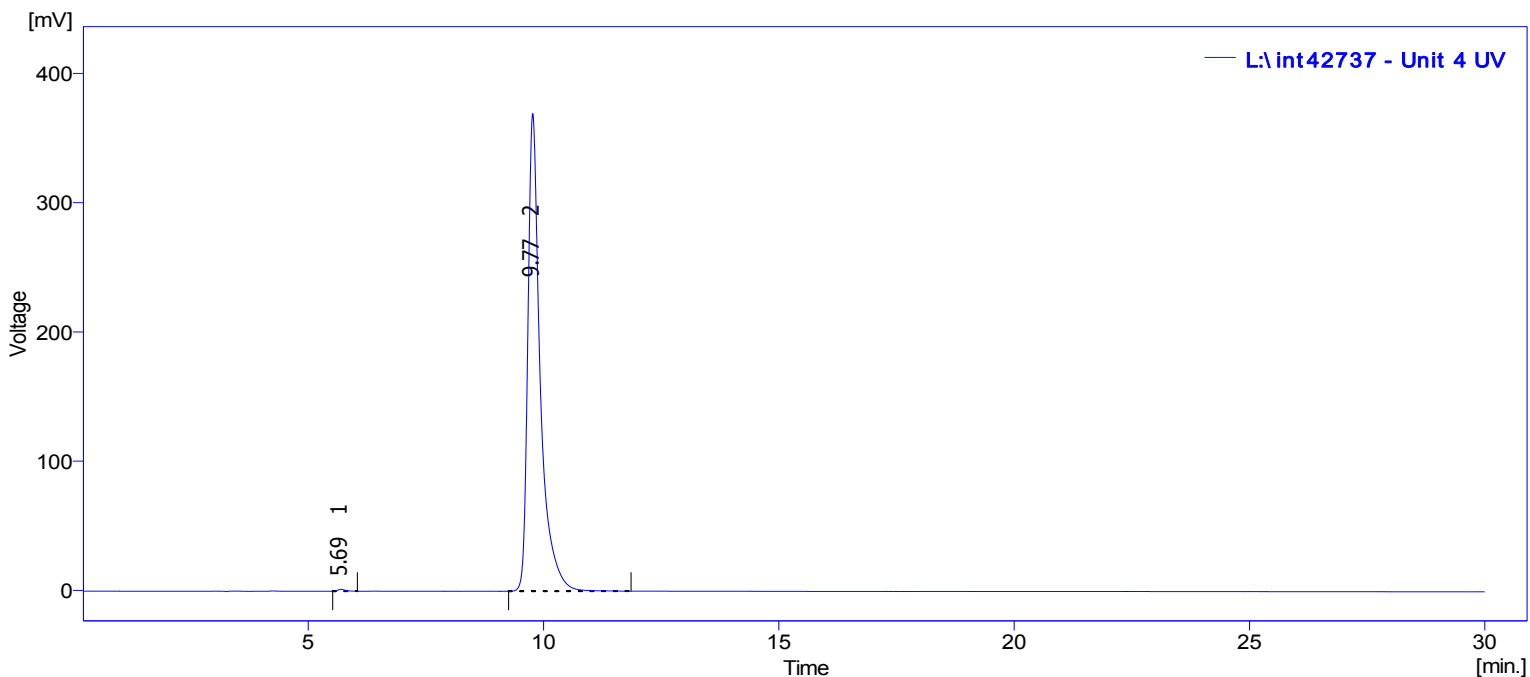
Result Table (Uncal - V:\ReIntgtd\int42736 - Unit 4 UV)

	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		3.56	7.927	2.10	0.90	4.7	0.06	21824	436486		2.09	
2		9.68	868.865	42.84	99.10	95.3	0.29	6177	123536	20.85	1.49	
		Total	876.793	44.94	100.00	100.0						

MC-2357
CMIT, [4,5-14C]-
Lot 648-077-0322-A-20080524-JI

Chromatogram Info:

File Name	: L:\int42737	File Created	: 5/21/2014 11:22:39 AM
Origin	: Acquired, Acquisition started 11/23/2010 9:23:53 AM	Acquired Date	: 11/23/2010 9:53:53 AM
Project	: Work1	By	: Administrator
Method	: Unit4-30minrun	By	: Administrator
Description	: UV trace of standard material alone		
Created	: 8/7/2007 9:44 AM	Modified	: 5/21/2014 11:43 AM
Column	:	Detection	: UV 254nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



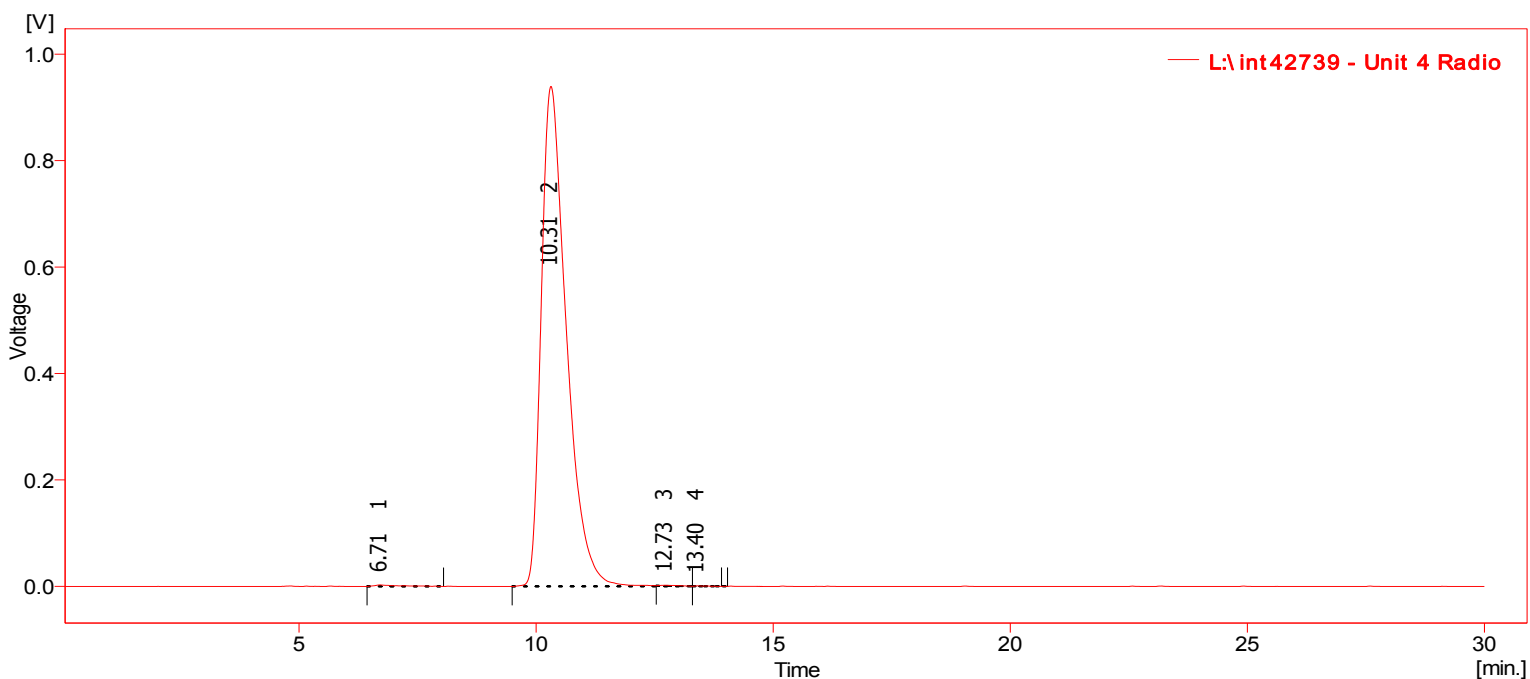
Result Table (Uncal - L:\int42737 - Unit 4 UV)

	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		5.69	15.733	1.49	0.23	0.4	0.16	7308	146154		1.54	
2		9.77	6804.170	369.56	99.77	99.6	0.25	8240	164795	11.74	1.69	
		Total	6819.902	371.05	100.00	100.0						

MC-2357
CMIT, [4,5-14C]-
Lot 648-077-0322-A-20080524-JI

Chromatogram Info:

File Name	: L:\int42739	File Created	: 5/21/2014 11:22:37 AM
Origin	: Acquired, Acquisition started 11/23/2010 10:38:54 AM	Acquired Date	: 11/23/2010 11:08:53 AM
Project	: Work1	By	: Administrator
Method	: Unit4-30minrun	By	: Administrator
Description	: Radiochemical trace of 14C material co-injected with standard		
Created	: 8/7/2007 9:44 AM	Modified	: 5/21/2014 11:46 AM
Column	:	Detection	: Radiochemical
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



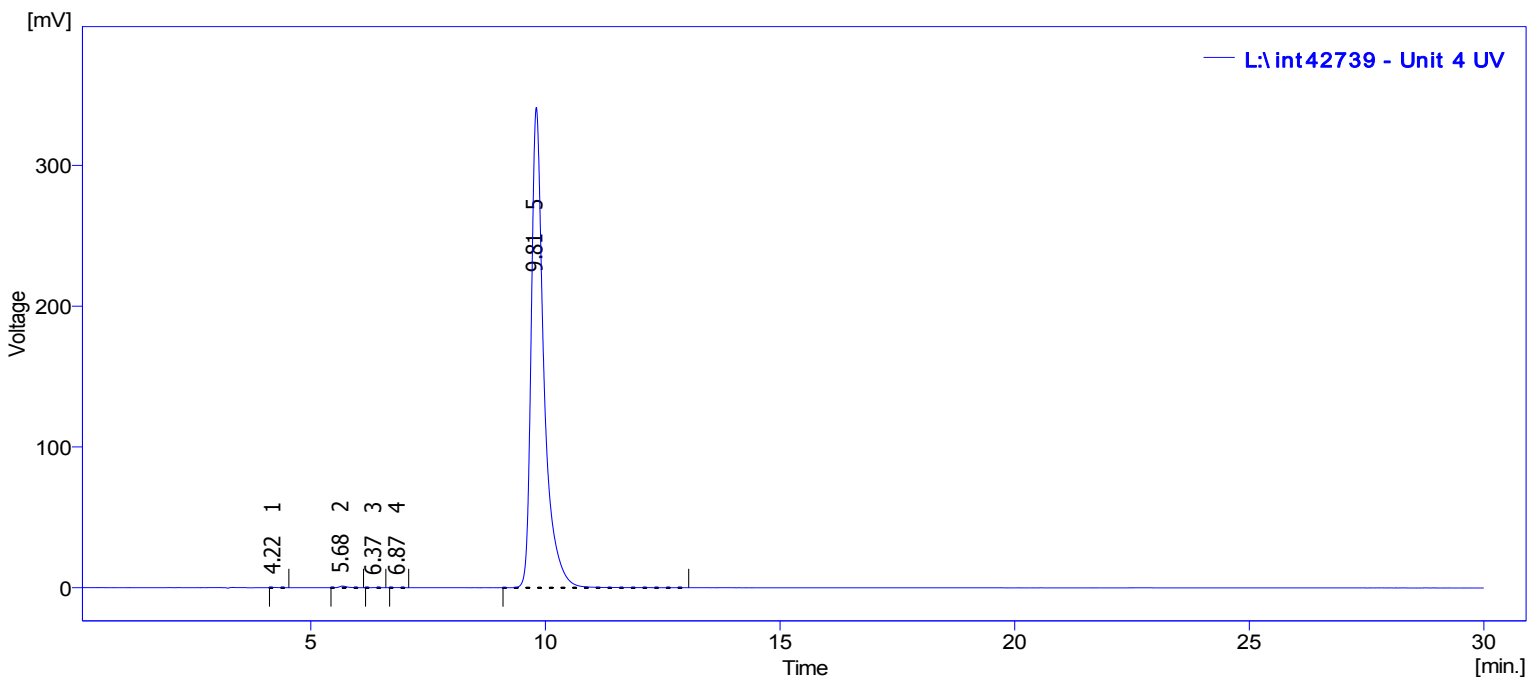
Result Table (Uncal - L:\int42739 - Unit 4 Radio)

	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		6.71	103.324	2.86	0.30	0.3	0.36	1891	37827		2.60	
2		10.31	34679.663	939.57	99.57	99.5	0.56	1879	37580	4.60	2.82	
3		12.73	31.396	1.19	0.09	0.1	0.24	16028	320570	3.58	2.00	
4		13.40	15.904	0.98	0.05	0.1	0.15	44212	884233	2.04	2.65	
		Total	34830.287	944.60	100.00	100.0						

MC-2357
CMIT, [4,5-14C]-
Lot 648-077-0322-A-20080524-JI

Chromatogram Info:

File Name	: L:\int42739	File Created	: 5/21/2014 11:22:37 AM
Origin	: Acquired, Acquisition started 11/23/2010 10:38:54 AM	Acquired Date	: 11/23/2010 11:08:53 AM
Project	: Work1	By	: Administrator
Method	: Unit4-30minrun	By	: Administrator
Description	: UV trace of 14C material co-injected with standard	Modified	: 5/21/2014 11:44 AM
Created	: 8/7/2007 9:44 AM		
Column	:	Detection	: UV 254nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



Result Table (Uncal - L:\int42739 - Unit 4 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	4.22	1.612	0.18	0.03	0.1	0.13	5847	116940		1.87	
2	5.68	13.382	1.18	0.21	0.3	0.17	6427	128537	5.78	1.53	
3	6.37	0.709	0.06	0.01	0.0	0.20	5431	108629	2.20	1.19	
4	6.87	1.068	0.09	0.02	0.0	0.18	8386	167712	1.57	1.05	
5	9.81	6419.037	341.24	99.74	99.6	0.26	7683	153664	7.87	1.60	
Total		6435.808	342.75	100.00	100.0						

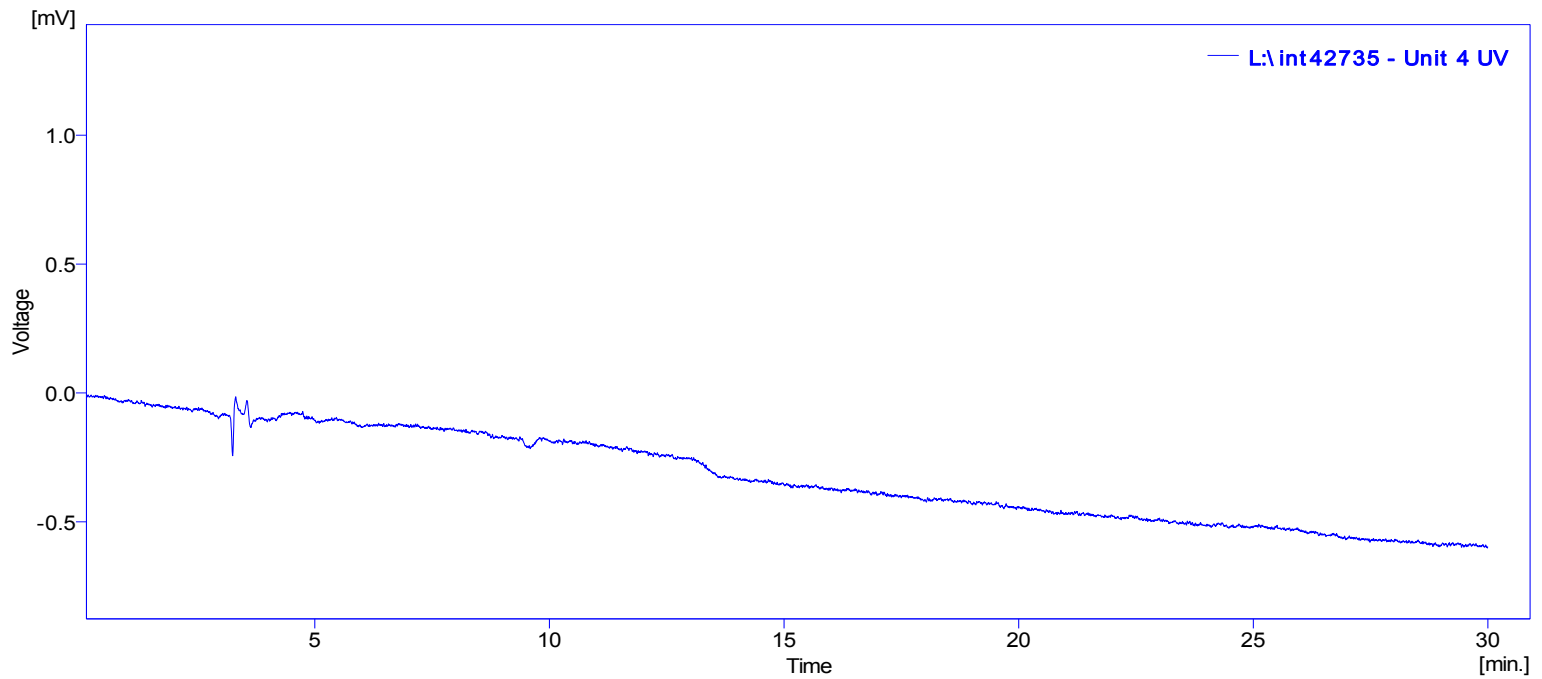
MC-2357
CMIT, [4,5-14C]-
Lot 648-077-0322-A-20080524-JI

Chromatogram Info:

File Name : L:\int42735 File Created : 5/21/2014 11:22:40 AM
 Origin : Acquired, Acquisition started 11/22/2010 3:34:51 PM Acquired Date : 11/22/2010 4:04:50 PM
 Project : Work1 By : Administrator

Method : Unit4-30minrun By : Administrator
 Description : UV trace of blank injection
 Created : 8/7/2007 9:44 AM Modified : 5/21/2014 11:32 AM

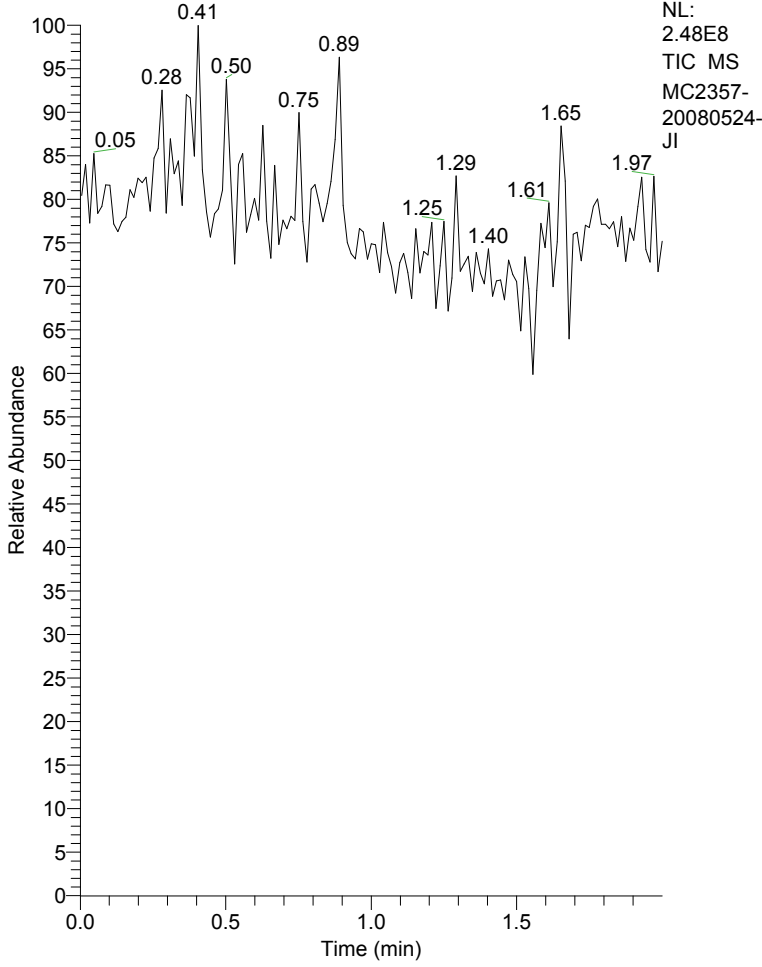
Column : Detection : UV 254nm
 Mobile Phase : Temperature :
 Flow Rate : Pressure :
 Note :



Result Table (Uncal - L:\int42735 - Unit 4 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



MC2357-20080524-JI #1-145 RT: 0.00-2.00

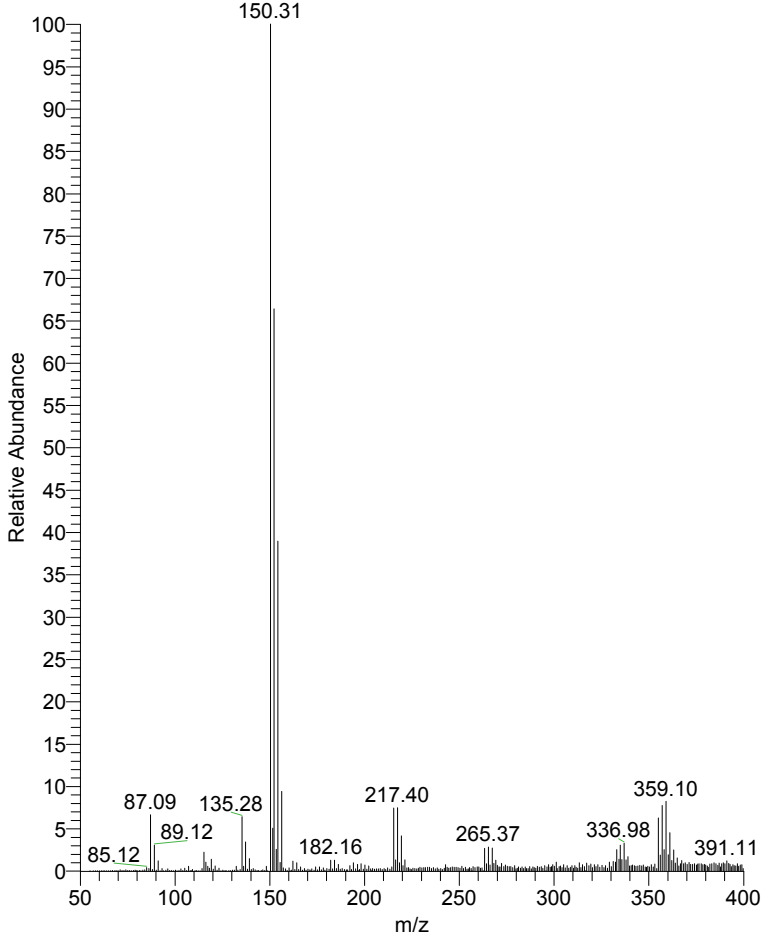
T: + c NSI Full ms [50.00-400.00]

m/z = 147.85-163.97

m/z	Intensity	Relative
148.93	14114.0	0.03
150.31	41210009.0	100.00
151.48	2082148.2	5.05
152.31	27349002.5	66.36
153.42	1053701.3	2.56
154.28	16048987.7	38.94
155.39	417084.3	1.01
156.25	3862847.5	9.37
157.20	152695.5	0.37
158.23	96677.0	0.23
159.15	15762.5	0.04
160.16	146356.9	0.36
160.69	658.5	0.00
161.30	43894.5	0.11
162.21	477562.1	1.16
163.21	72350.6	0.18

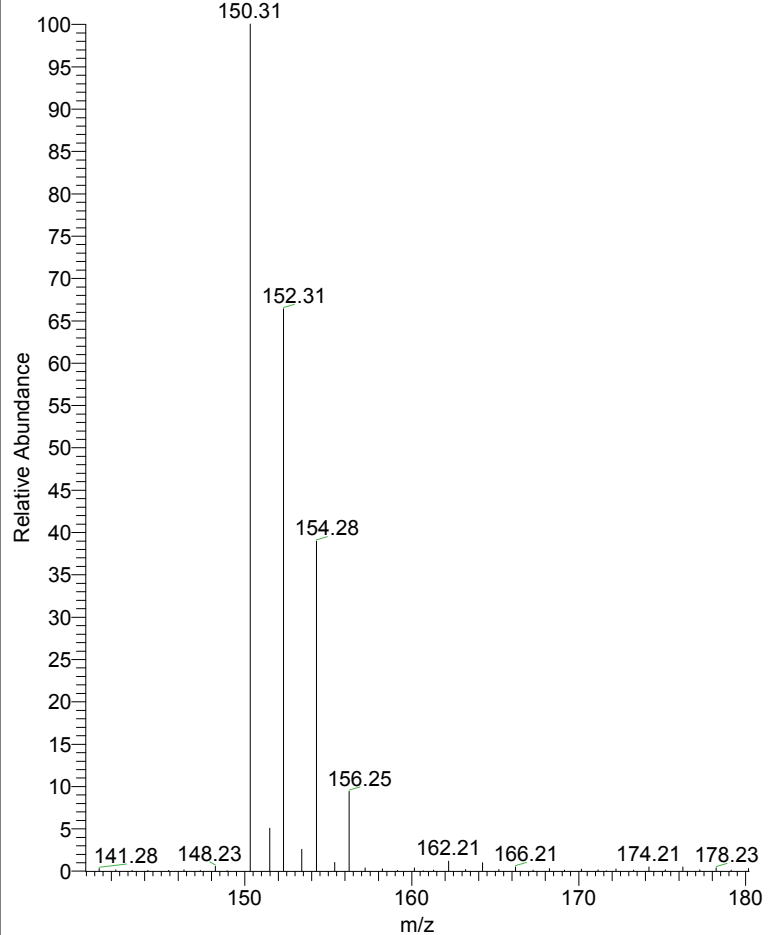
MC2357-20080524-JI #1-145 RT: 0.00-2.00 AV: 145 NL: 4.12E7

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



MC2357-20080524-JI #1-145 RT: 0.00-2.00 AV: 145 NL: 4.12E7

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



MC2357 1H NMR in CDC13
Batch 20080524-JI



3.356

6.341

NAME MC2357
EXPNO 1
PROCNO 1
Date_ 20101123
Time 14.21
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 65536
SOLVENT CDC13
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 300.0 K
D1 1.00000000 sec
TD0 1
===== CHANNEL f1 =====
NUC1 1H
P1 14.50 usec
PL1 -0.70 dB
PL1W 10.03411102 W
SFO1 400.1324710 MHz
SI 32768
SF 400.1299802 MHz
WDW no
SSB 0
LB 0.00 Hz
GB 0
PC 1.00



9 8 7 6 5 4 3 2 1 ppm

1.00

3.11