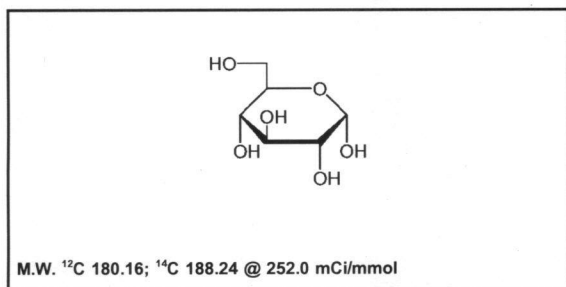




Product Data Sheet

MC-144

D-Glucose, [¹⁴C(U)]-



Lot #: 195-107-252-A-20100319-SB

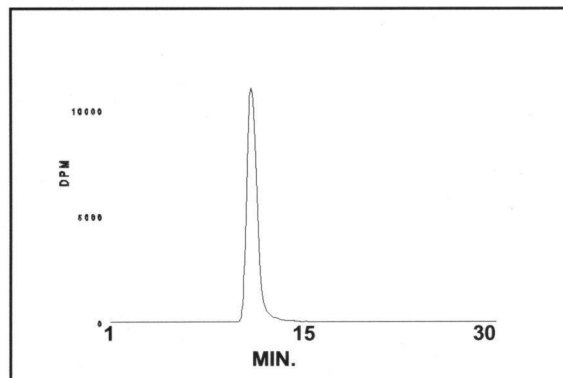
Specific Activity: 252.0 mCi/mmol

Concentration: 0.1 mCi/ml; 74.70 µg/ml

Packaged in: Ethanol : water (9 : 1) solution

Date of Analysis: June 1, 2010

Radiochemical Purity: 99.5%



HPLC ANALYSIS LOT 195-107-252-A-20100319-SB
File Name: inth2228 Date and Time: 6/1/2010 1:26:40 PM
Unit 17 Radio

Peak #	Area %	Time	Area
1	0.16	5.74000	98.15052
2	0.02	8.41000	15.53883
3	0.12	9.32670	74.84287
4	99.56	10.99330	62742.22838
5	0.07	18.16330	46.98549
6	0.02	18.61670	13.33988
7	0.04	25.60000	27.50011
Totals	100.00		63018.58608

Stability and Storage Recommendation: The rate of decomposition is approximately 0.1%/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.

MC-144

D-Glucose, [¹⁴C(U)]-

Lot 195-107-252-A-20100319-SB

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

Concentrations and volumes:

D-Glucose, [¹⁴C(U)]- concentration was ~~€F~~ { Ci/ml.

Volume of **D-Glucose, [¹⁴C(U)]-** injection was 2.5 µl.

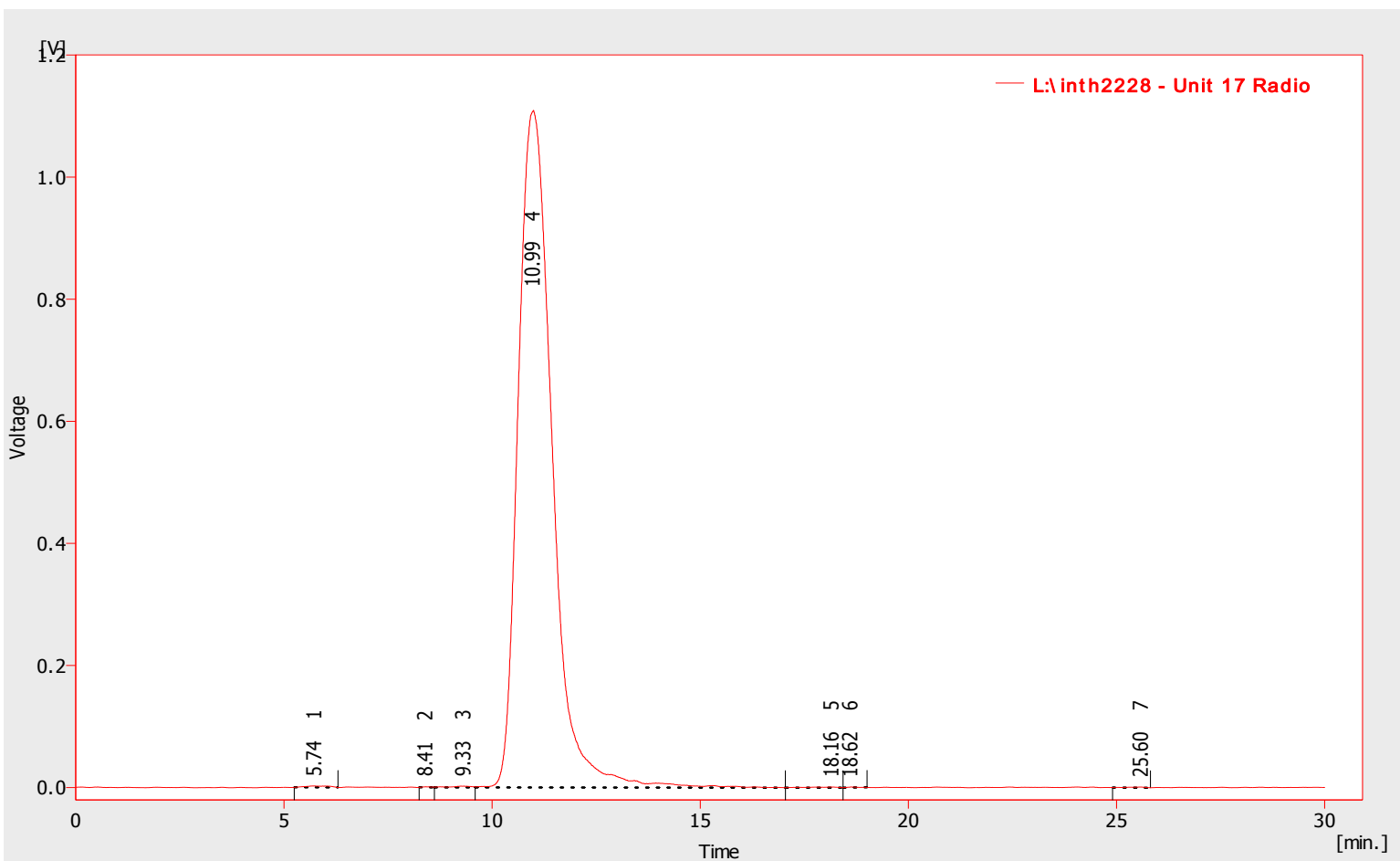
B) Mass spectrometry – Positive mode

C) NMR

MC-144
D-Glucose, [14C(U)]-
Lot 195-107-252-A-20100319-SB

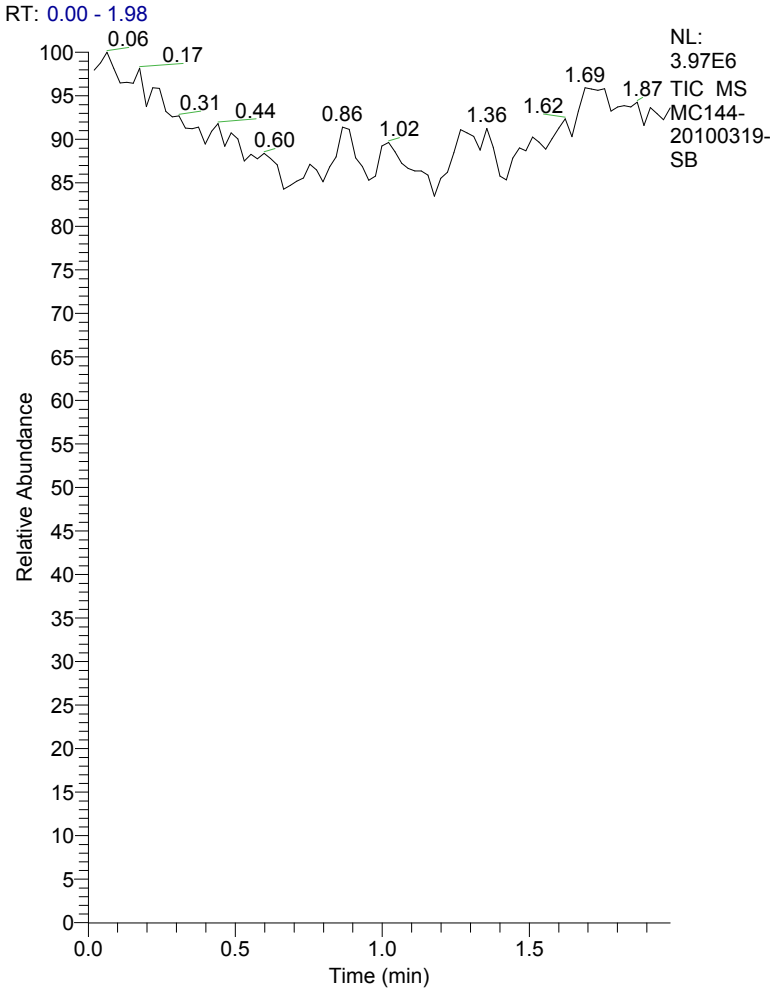
Chromatogram Info:

File Name	: L:\inth2228	File Created	: 6/1/2010 1:27:51 PM
Origin	: Acquired	Acquired Date	: 6/1/2010 1:26:40 PM
Project	: Test	By	: Administrator
Method	: Unit17_30_min_run	By	: Administrator
Description	: Radiochemical trace of D-Glucose, [14C(U)]-	Modified	: 7/26/2010 3:41 PM
Created	: 8/9/2007 8:59 AM		
Column	:	Detection	: Radiochemical
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



Result Table (Uncal - L:\inth2228 - Unit 17 Radio)

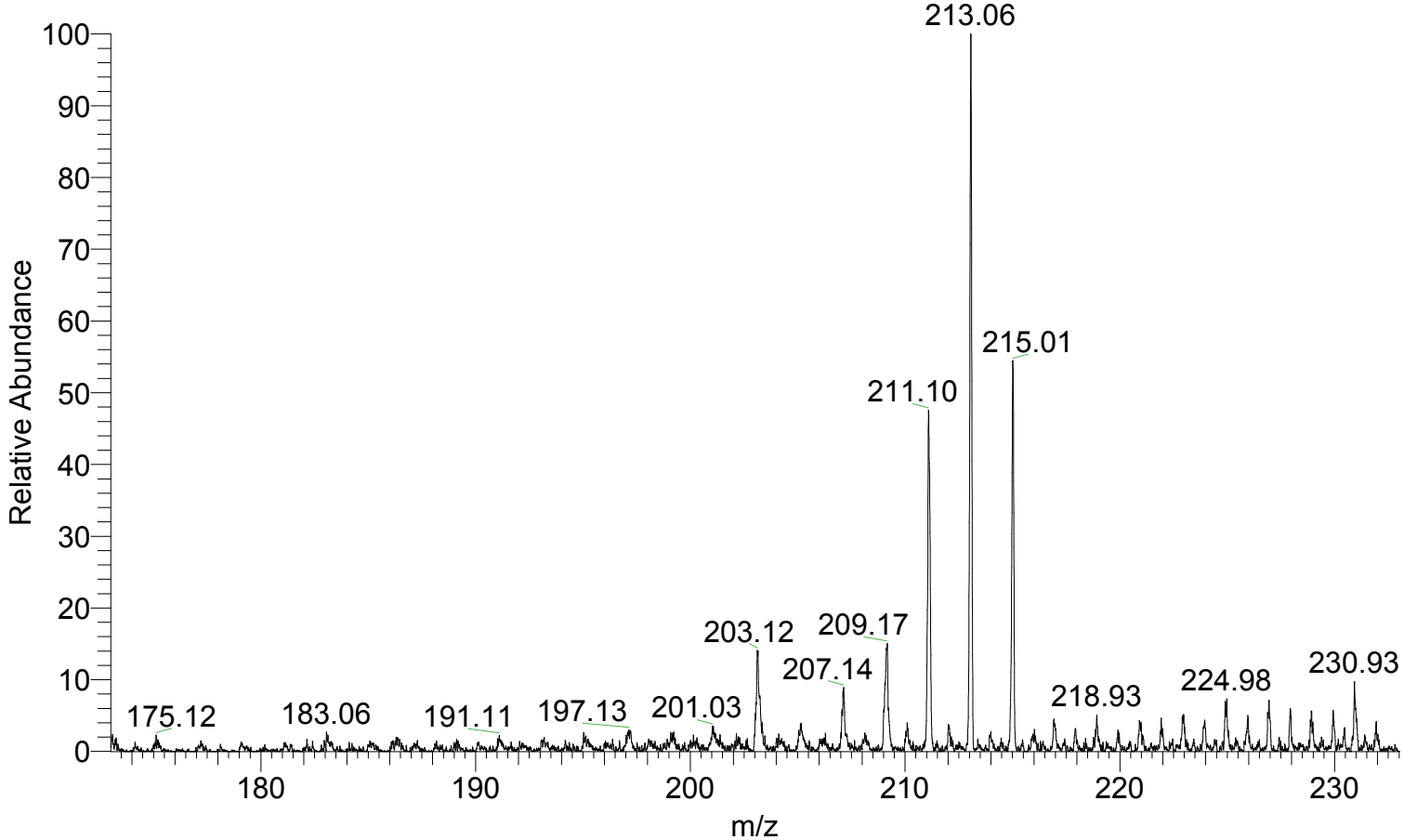
	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	W05 [min]
1	5.740	98.151	2.408	0.16	0.2	0.75
2	8.410	15.539	1.162	0.02	0.1	0.24
3	9.327	74.843	2.276	0.12	0.2	0.49
4	10.993	62742.228	1109.182	99.56	99.2	0.87
5	18.163	46.985	1.014	0.07	0.1	0.70
6	18.617	13.340	0.969	0.02	0.1	0.21
7	25.600	27.500	1.088	0.04	0.1	0.47
	Total	63018.586	1118.099	100.00	100.0	



MC144-20100319-SB#1-89 RT: 0.02-1.98 AV: T: + p NSI Z ms [173.00-233.00]
m/z= 198.59-220.95

m/z	Intensity	Relative
201.16	62587.2	11.12
202.22	40881.2	7.26
203.18	156312.3	27.76
204.16	39268.9	6.97
205.20	55829.0	9.91
206.22	36960.3	6.56
207.16	88480.9	15.71
208.11	38399.1	6.82
209.13	155420.1	27.60
210.11	42157.2	7.49
211.11	348023.5	61.81
212.08	39213.7	6.96
213.05	563083.4	100.00
215.00	334984.0	59.49
216.02	43256.2	7.68
216.99	45694.6	8.12
218.89	51154.5	9.08
220.91	52751.5	9.37

MC144-20100319-SB #1-89 RT: 0.02-1.98 AV: 89 NL: 2.55E4
T: + p NSI Z ms [173.00-233.00]



MC144 1H NMR in D2O
Batch 20100319-SB



3.779
3.749
3.721
3.693
3.646
3.604
3.578
3.411
3.377
3.352
3.328
3.276
3.126
3.107

5.096
4.519
4.501

NAME MC144-20100319-SB
EXPNO 2
PROCNO 1
Date_ 20100722
Time 14.03
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 294.6 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 400.1300062 MHz
WDW no
SSB 0
LB 0.00 Hz
GB 0
PC 1.00

