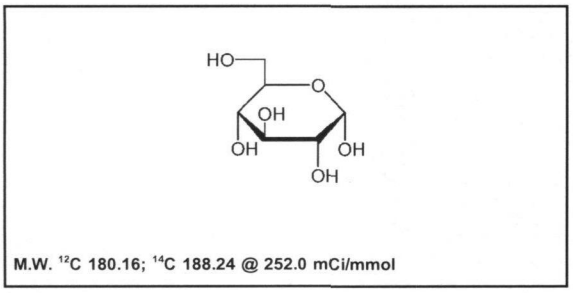
Product Data Sheet

MC-144W

D-Glucose, [^{14}C(U)]-



M.W. ^{12}C 180.16; ^{14}C 188.24 @ 252.0 mCi/mmol

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

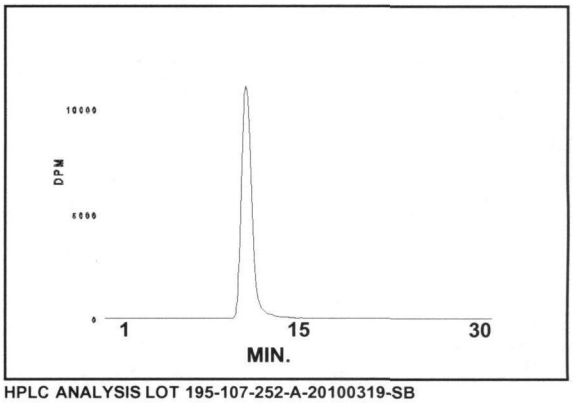
Specific Activity: 252.0 mCi/mmol

Concentration: 0.1 mCi/ml; 74.70 μg/ml

Packaged in: Sterile water solution

Date of Analysis: June 1, 2010

Radiochemical Purity: 99.4%



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	0.17	5.74330	108.66074
2	0.08	9.32670	49.87252
3	99.40	10.99670	62255.76794
4	0.08	12.78000	49.31957
5	0.04	13.41330	27.79259
6	0.14	13.93000	88.12020
7	0.08	15.30000	50.45549
Totals	100.00		62629.98905

Stability and Storage Recommendation: The rate of decomposition is approximately 0.1%/month for the first six months after purification when stored at 0-5°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.

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MC-144W

D-Glucose, [^{14}C(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, [^{14}C(U)]- concentration was 0.1 mCi/ml.

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

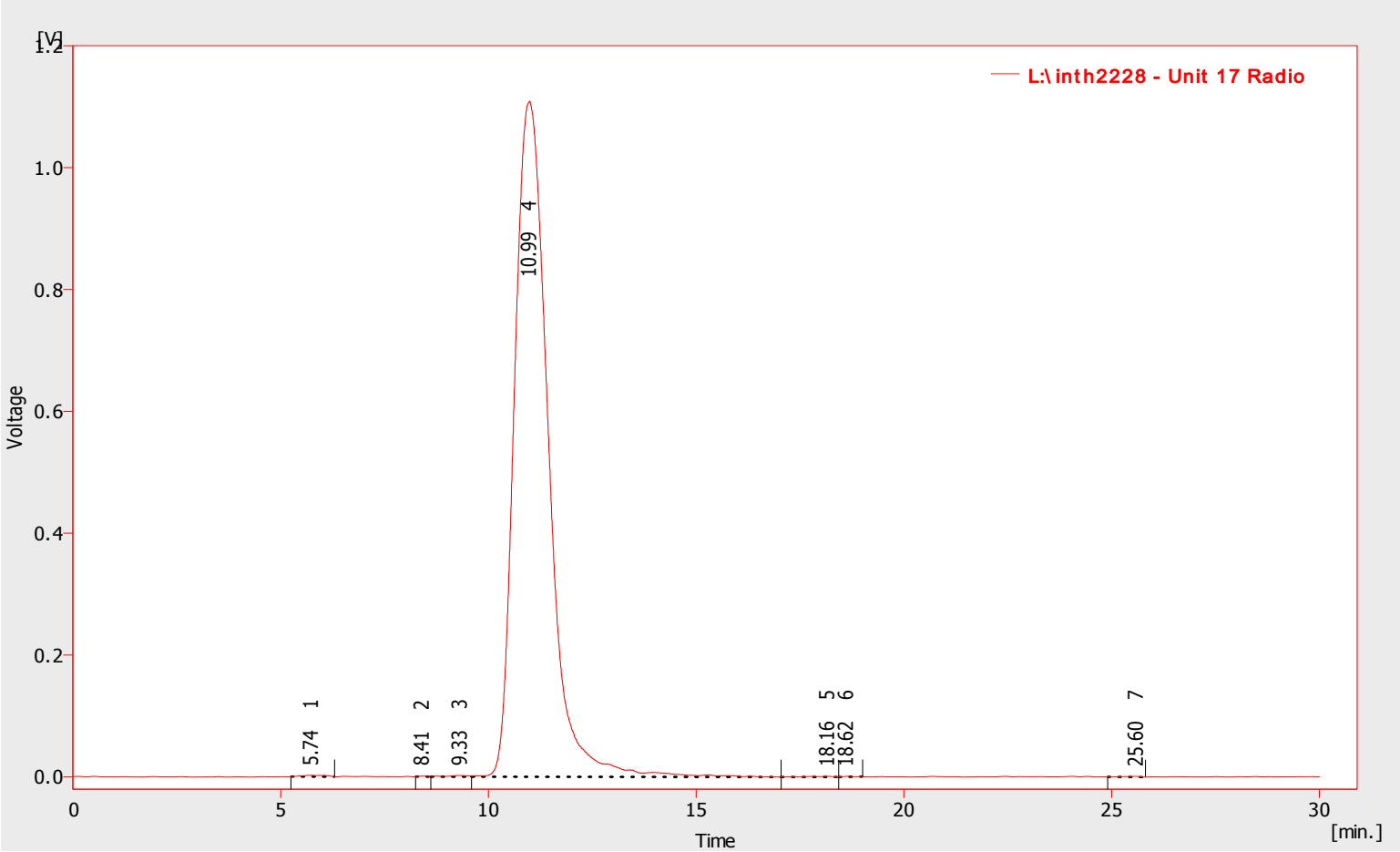
B) Mass spectrometry – Positive mode

C) NMR

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

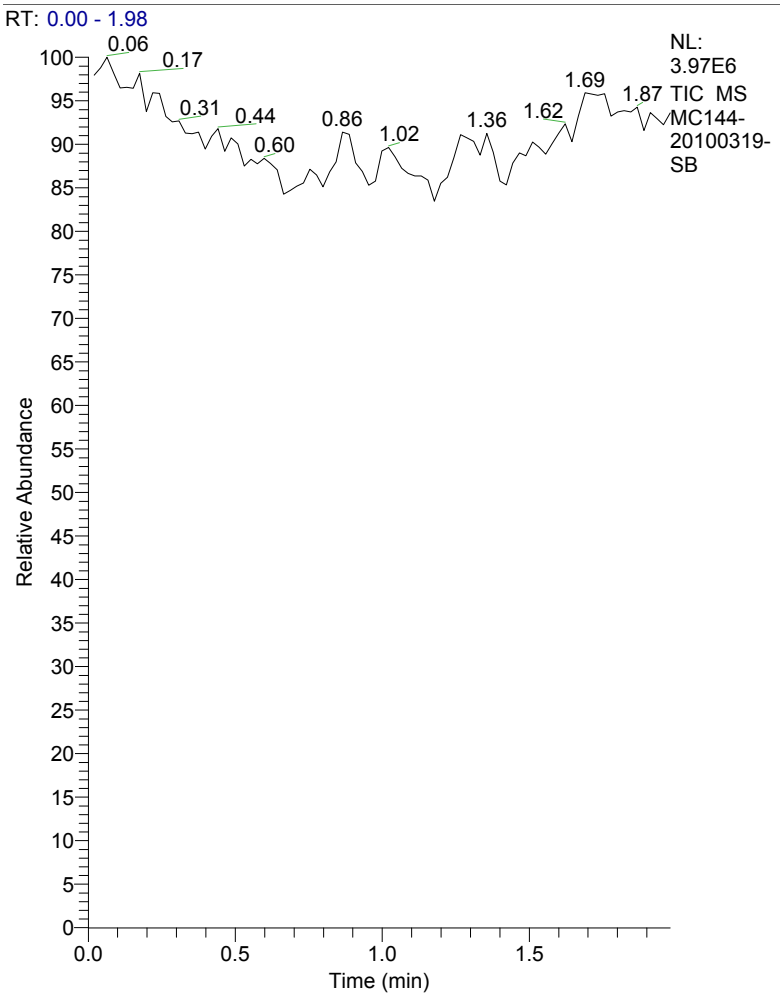
Chromatogram Info:

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)]-		
Created	: 8/9/2007 8:59 AM	Modified	: 7/26/2010 3:41 PM
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	



MC144W-20100319-SB#1-89 RT: 0.02-1.98 AV:

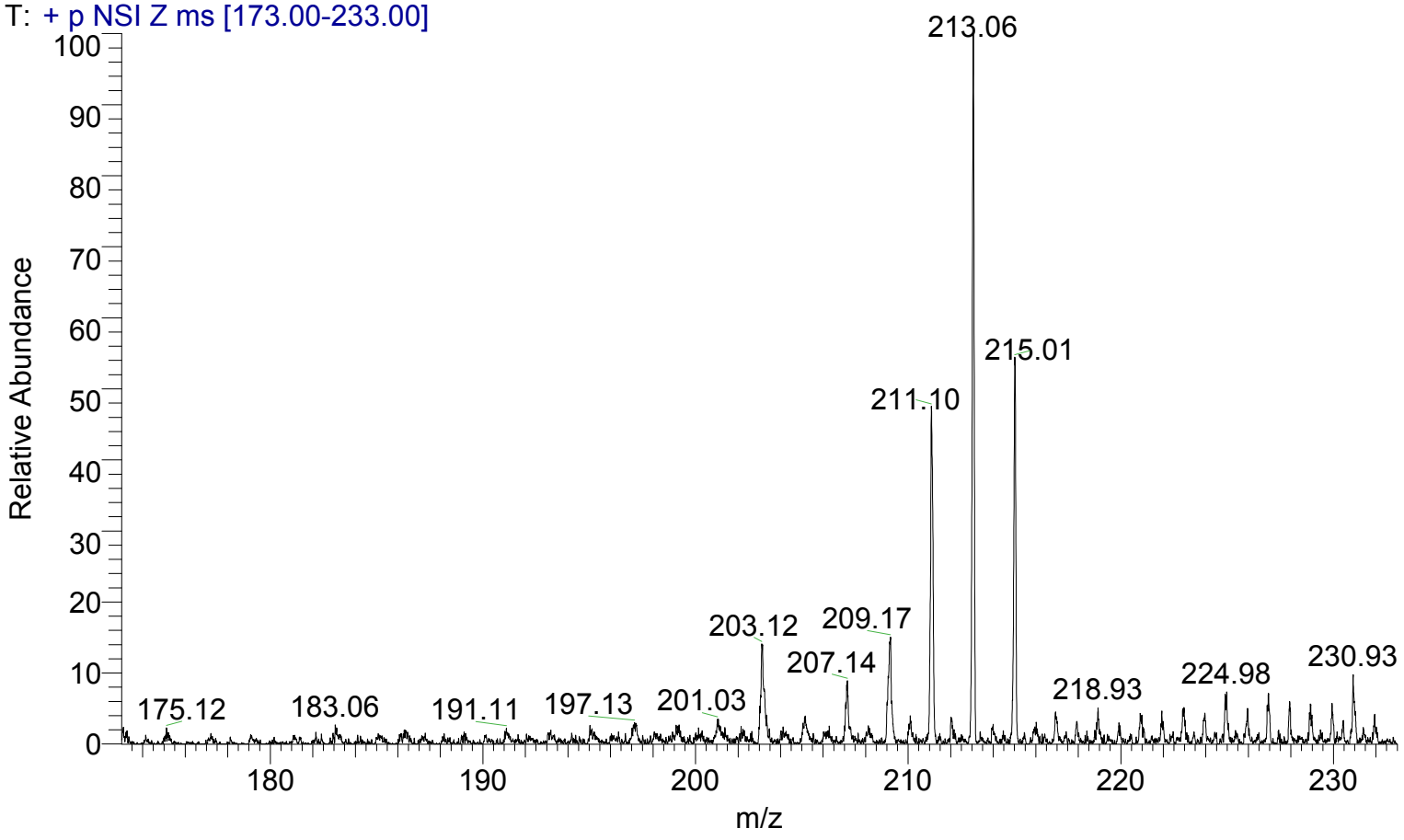
T: + p NSI Z ms [173.00-233.00]

m/z= 198.59-220.95

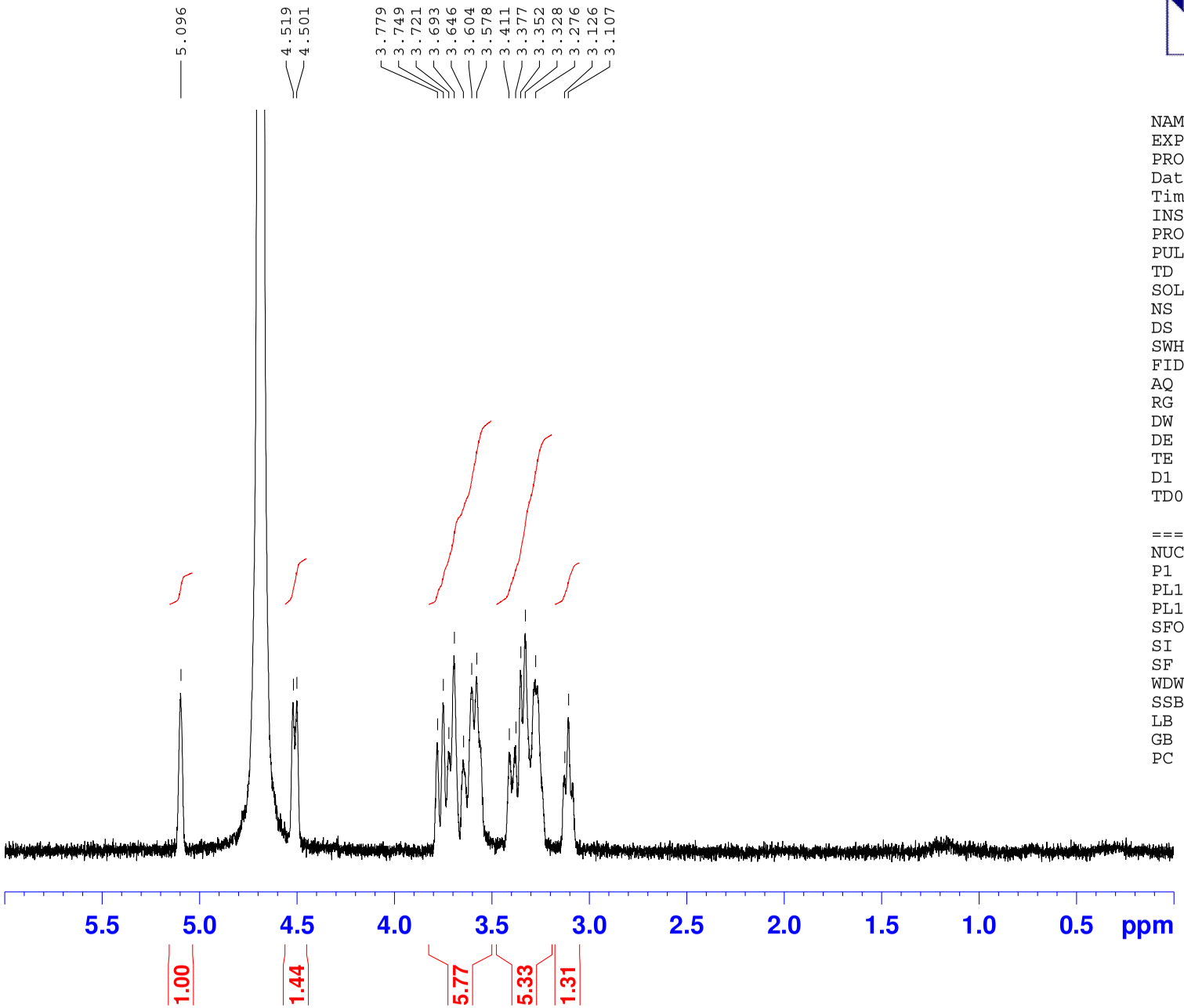
m/z	Intensity	Relative
201.16	62587.2	11.12
202.22	40881.2	7.26
203.18	156312.3	27.76
204.16	39268.9	6.97
205.20	55829.0	9.91
206.22	36960.3	6.56
207.16	88480.9	15.71
208.11	38399.1	6.82
209.13	155420.1	27.60
210.11	42157.2	7.49
211.11	348023.5	61.81
212.08	39213.7	6.96
213.05	563083.4	100.00
215.00	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

MC144W-20100319-SB #1-89 RT: 0.02-1.98 AV: 89 NL: 2.55E4

T: + p NSI Z ms [173.00-233.00]



MC144W 1H NMR in D2O
Batch 20100319-SB



NAME	MC144W-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
SFO1	400.1324710 MHz
SI	32768
SF	400.1300062 MHz
WDW	no
SSB	0
LB	0.00 Hz
GB	0
PC	1.00