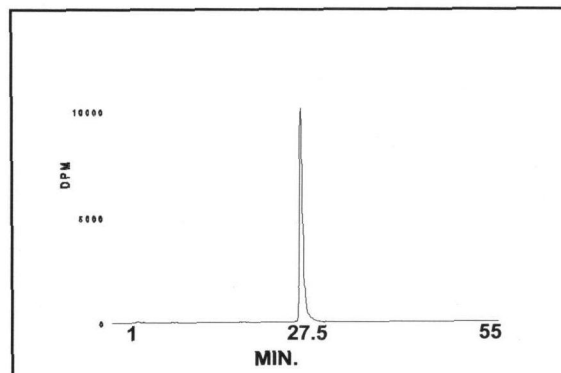
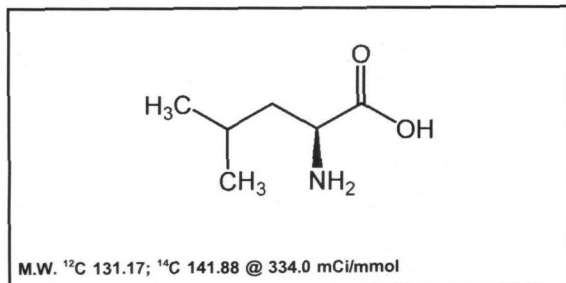




Product Data Sheet

MC-175

L-Leucine, [¹⁴C(U)]-



HPLC ANALYSIS LOT 742-032-334-B-20111017-SBA
File Name: INTB5970 Date and Time: 10/17/2011 11:47:37
Unit 11 Radio

Peak #	Area %	Time	Area
1	0.27	3.78670	95.55726
2	0.06	18.37330	22.34678
3	0.11	26.21000	40.72435
4	99.21	26.99330	35266.04839
5	0.18	28.46000	64.19240
6	0.17	28.84330	59.74151
Totals	100.00		35548.61069

Lot #: 742-032-334-B-20111017-SBA

Specific Activity: 334.0 mCi/mmol

Concentration: 0.1 mCi/ml; 42.48 µg/ml

Packaged in: Sterile water solution

Date of Analysis: October 17, 2011

Radiochemical Purity: 99.2%

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.

MC-175

L-Leucine, [¹⁴C(U)]-

Lot 742-032-334-B-20111017-SBA

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

Concentrations and volumes:

L-Leucine, [¹⁴C(U)]- concentration was 50.0 µCi/ml.

Volume of L-Leucine, [¹⁴C(U)]- injection was 1.5 µl.

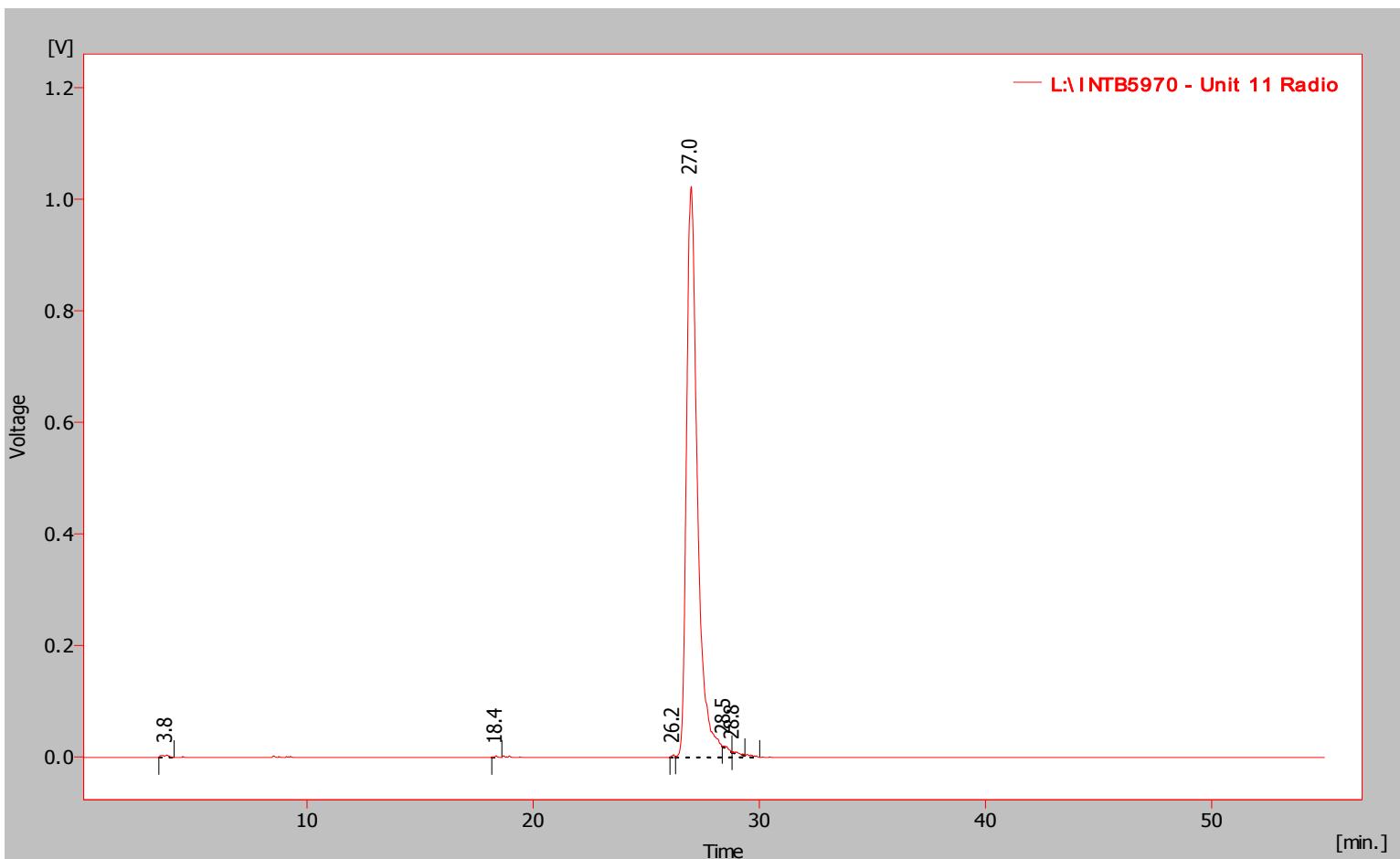
B) Mass spectrometry – Positive mode

C) NMR

MC-175
L-Leucine, [14C(U)]-
Lot 742-032-334-B-20111017-SBA

Chromatogram Info:

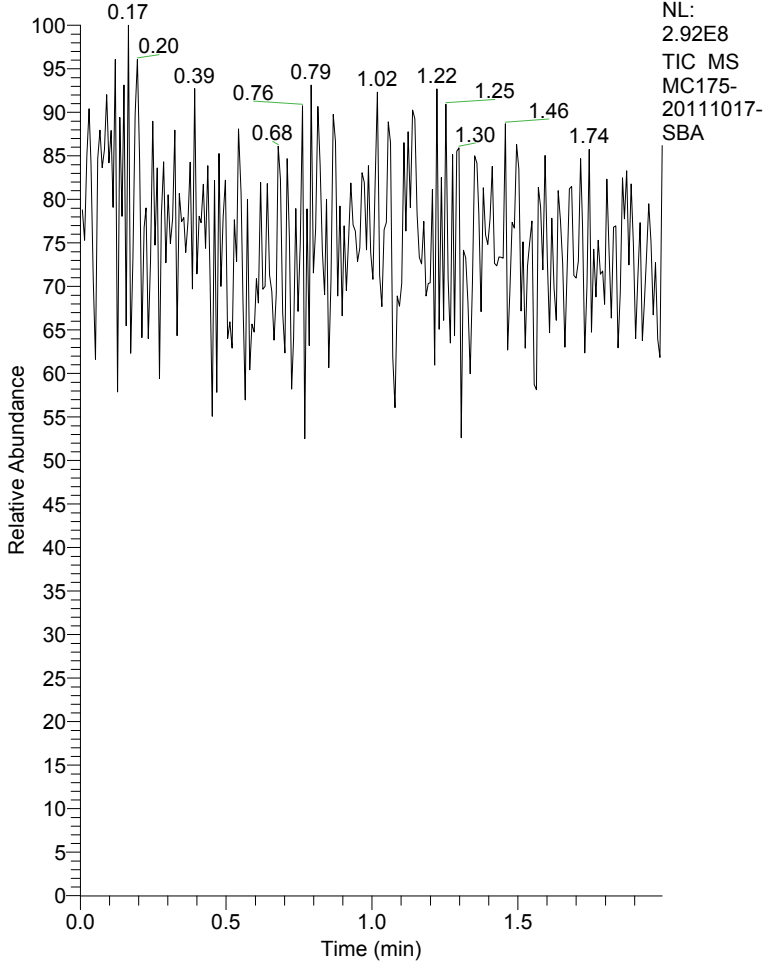
File Name	: L:\INTB5970	File Created	: 10/18/2013 3:03:31 PM
Origin	: Acquired, Acquisition started 10/17/2011 10:52:38 AM	Acquired Date	: 10/17/2011 11:47:37 AM
Project	: Test	By	: Administrator
Method	: Unit11_55_min_run	By	: Administrator
Description	: Radiochemical trace of L-Leucine, [14C(U)]-	Modified	: 10/18/2013 3:08 PM
Created	: 11/6/2007 2:08 PM		
Column	:	Detection	: Radiochemical
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



Result Table (Uncal - L:\INTB5970 - Unit 11 Radio)

	Compound Name	Reten. Time [min]	Area [%]	Area [mV.s]	Height [mV]	Height [%]	Efficiency [th.pl]
1		3.787	0.269	95.557	4.444	0.426	690.089
2		18.373	0.063	22.347	3.175	0.304	63417.866
3		26.210	0.115	40.724	5.149	0.494	235753.291
4		26.993	99.205	35266.048	1023.875	98.188	0.000
5		28.460	0.181	64.192	3.603	0.346	94278.698
6		28.843	0.168	59.742	2.524	0.242	36440.451
		Total	100.000	35548.611	1042.769	100.000	

RT: 0.00 - 1.99



MC175-20111017-SBA#1-264 RT: 0.01-1.99

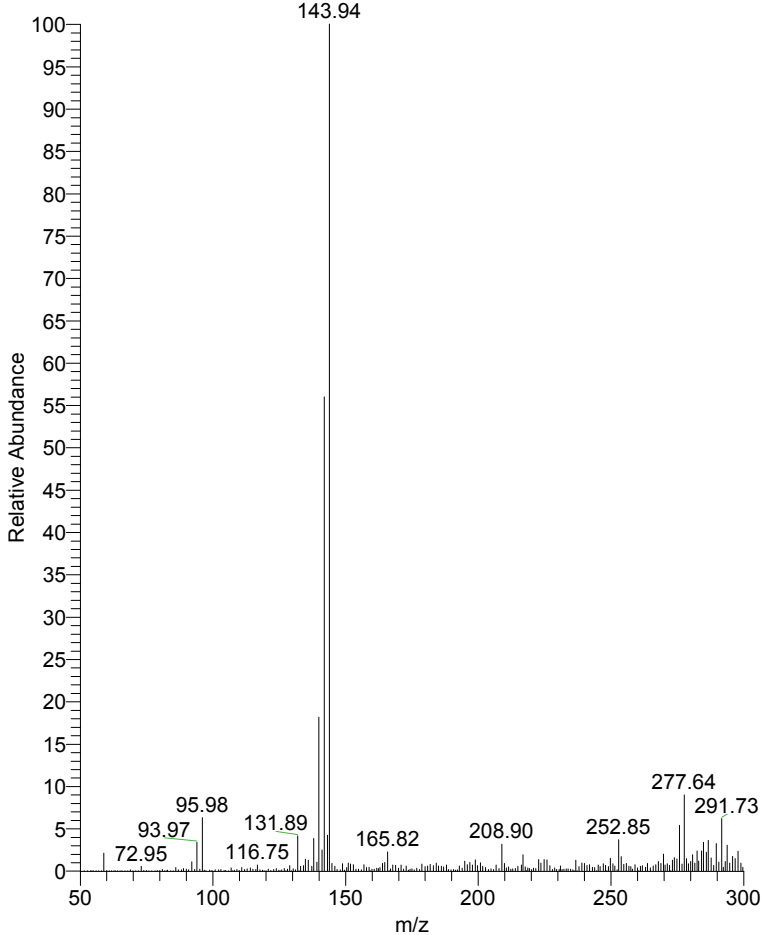
T: + c ESI Full ms [50.00-300.00]

m/z = 130.16-148.84

m/z	Intensity	Relative
131.16	74416.3	0.12
131.89	2467427.7	4.13
132.99	323072.3	0.54
134.17	378918.3	0.63
134.89	820198.0	1.37
135.91	749976.7	1.26
137.22	326551.1	0.55
137.94	2288904.7	3.83
139.15	616958.5	1.03
139.94	10834158.7	18.15
141.13	1484617.9	2.49
141.94	33430839.2	56.01
143.12	2509836.3	4.20
143.94	59691512.5	100.00
144.89	521824.8	0.87
145.96	318672.0	0.53
146.81	103604.8	0.17
147.95	68784.4	0.12
148.80	508858.3	0.85

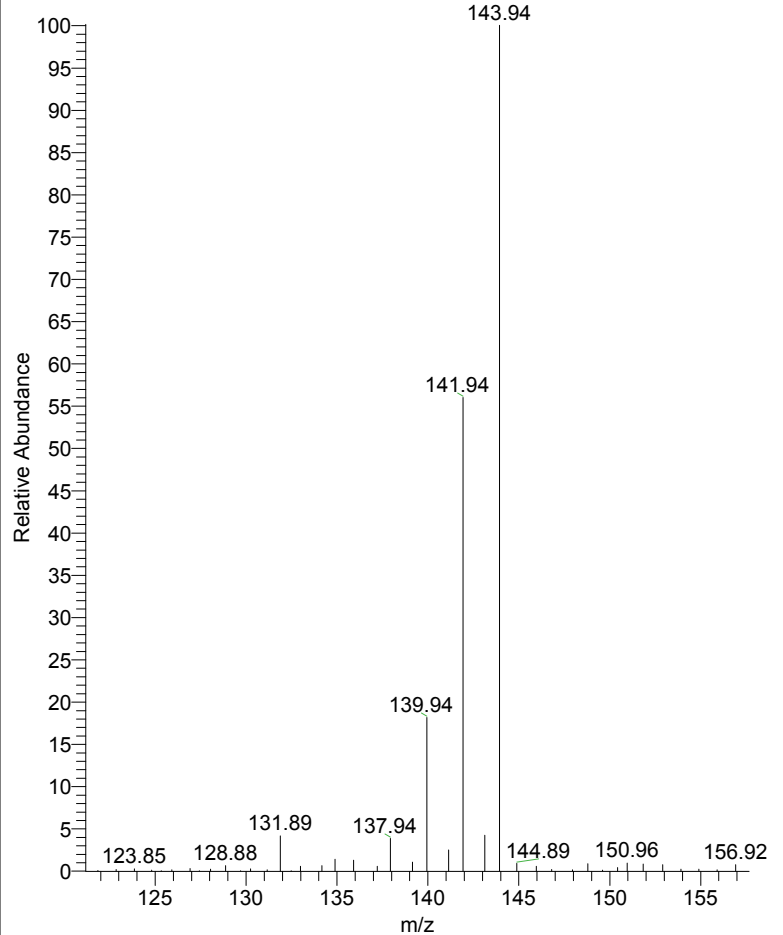
MC175-20111017-SBA #1-264 RT: 0.01-1.99 AV: 264 NL: 5.97E7

T: + c ESI Full ms [50.00-300.00]

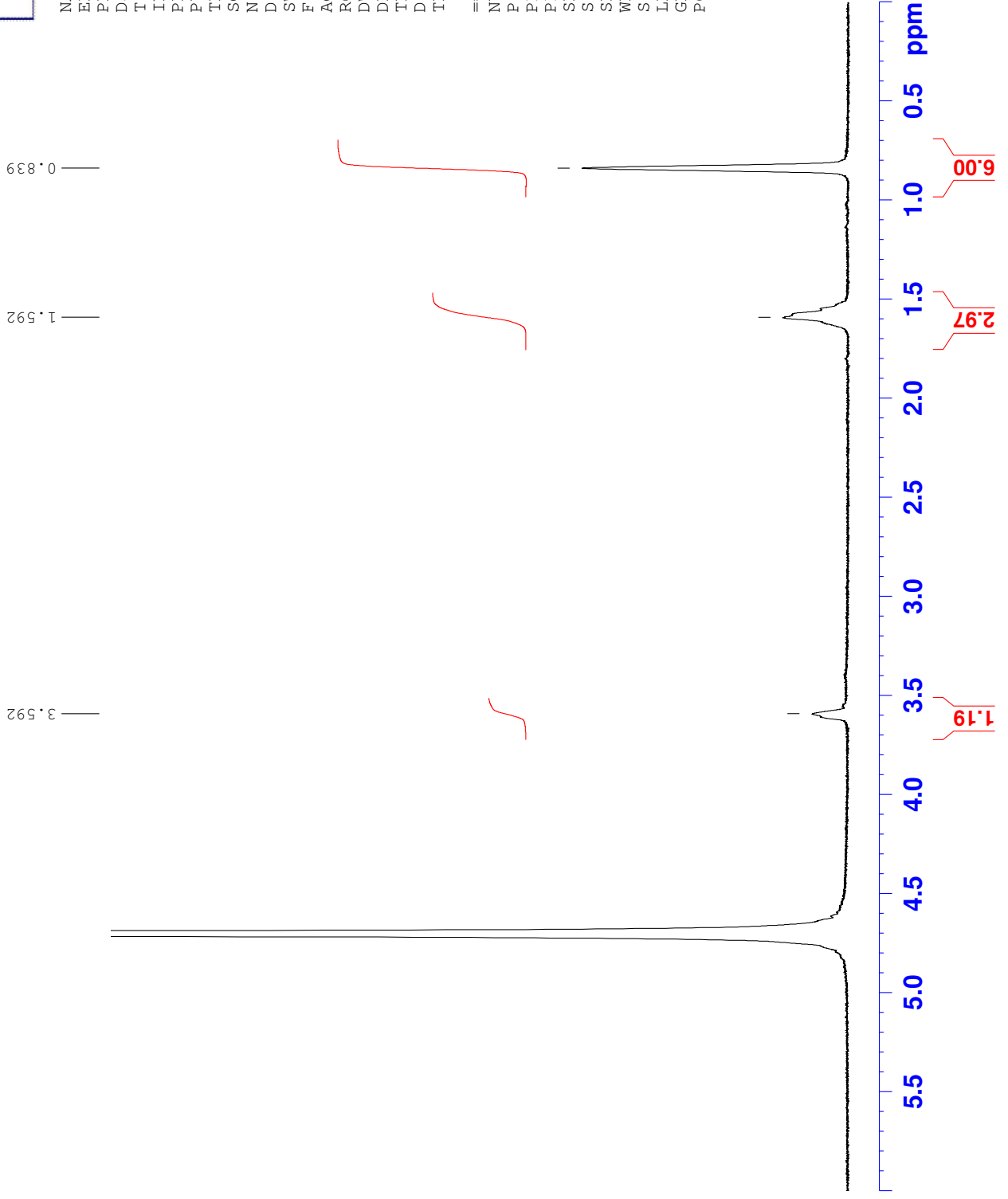
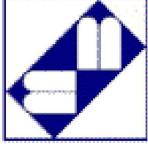


MC175-20111017-SBA #1-264 RT: 0.01-1.99 AV: 264 NL: 5.97E7

T: + c ESI Full ms [50.00-300.00]



MC175 1H NMR in D2O
Batch 20111017-SBA



NAME MC175-20111017-SBA
EXPNO 1
PROCNO 1
Date_ 20111220
Time 14.46
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 65536
SOLVENT D2O
NS 1024
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 294.8 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 400.1300000 MHz
WDW no
SSB 0
LB 0.00 Hz
GB 0
PC 1.00