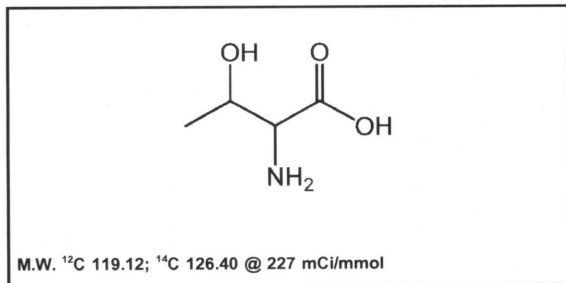




Product Data Sheet

MC-2235

L-Threonine, [$^{14}\text{C}(\text{U})$]-



Lot #: 642-100-227-A-20100422-SB

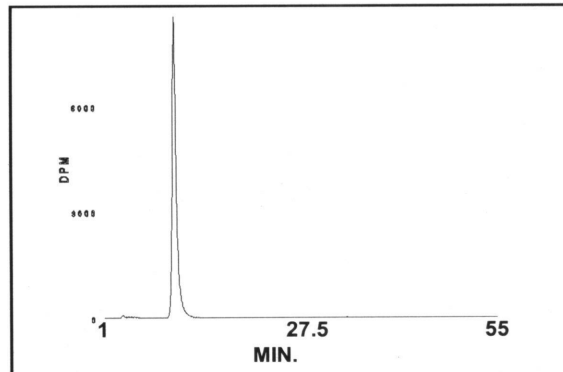
Specific Activity: 227 mCi/mmol

Concentration: 0.05 mCi/ml; 27.84 $\mu\text{g}/\text{ml}$

Packaged in: Ethanol : water (2 : 98) solution

Date of Analysis: April 22, 2010

Radiochemical Purity: 98.9%



HPLC ANALYSIS LOT 642-100-227-A-20100422-SB
File Name: intb4021 Date and Time: 4/22/2010 9:49:46 AM
Unit 11 Radio

Peak #	Area %	Time	Area
1	0.41	2.68330	141.23937
2	0.09	3.07000	31.27479
3	0.06	3.34000	20.31807
4	0.07	3.48670	22.18513
5	0.12	3.72000	39.21671
6	0.16	4.23330	52.82041
7	98.97	9.81000	33703.13973
8	0.13	12.24000	45.10380
Totals	100.00		34055.29801

Storage Recommendation: Store 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-2235

L-Threonine, [$^{14}\text{C}(\text{U})$]-

Lot 642-100-227-A-20100422-SB

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

Concentrations and volumes:

L-Threonine, [$^{14}\text{C}(\text{U})$]- concentration was 50.0 $\mu\text{Ci/ml}$.

Volume of **L-Threonine, [$^{14}\text{C}(\text{U})$]-** injection was 1.0 μl .

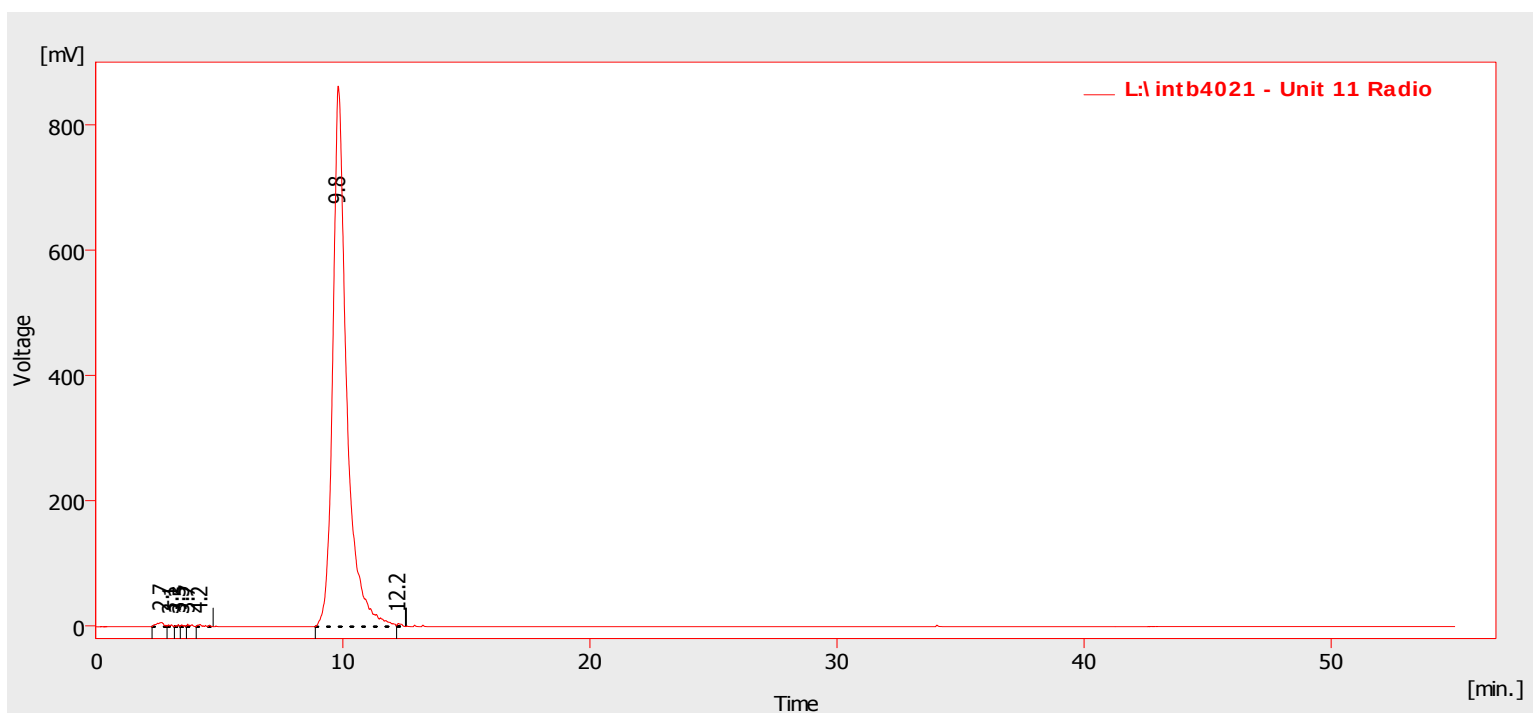
B) Mass spectrometry – Positive mode

C) NMR

MC-2235
L-Threonine, [14C(U)]-
Lot 642-100-227-A-20100422-SB

Chromatogram Info:

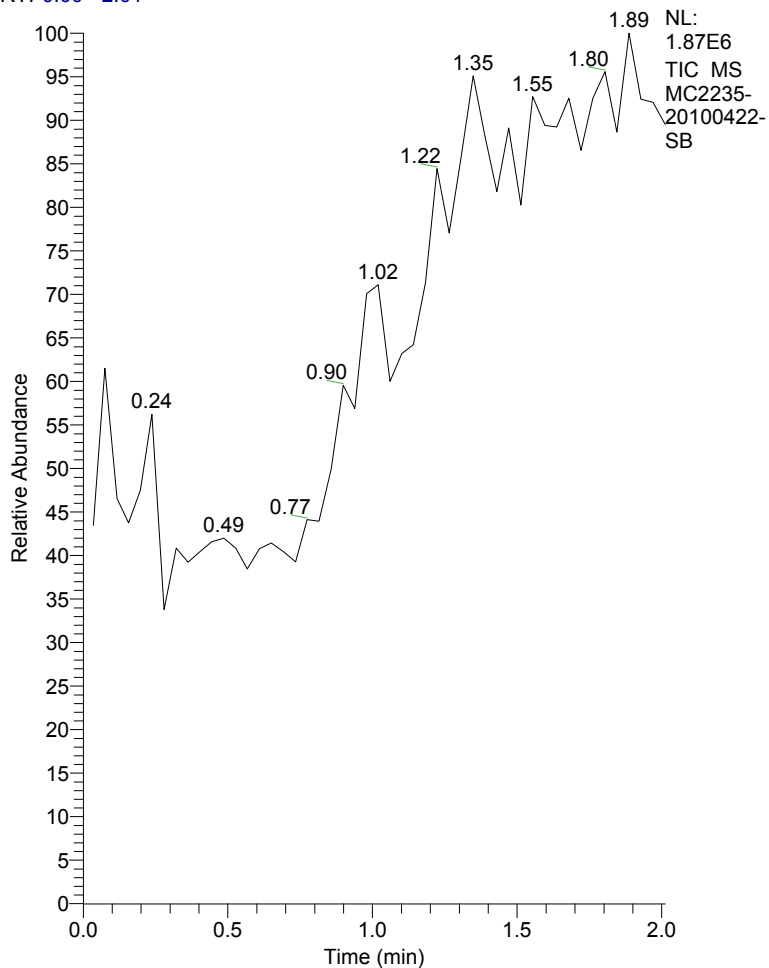
File Name	: L:\intb4021	File Created	: 4/22/2010 9:07:30 AM
Origin	: Acquired	Acquired Date	: 4/22/2010 9:49:46 AM
Project	: Test	By	: Administrator
Method	: Unit11_55_min_run	By	: Administrator
Description	: Radiochemical trace of L-Threonine, [14C(U)]-	Modified	: 8/2/2010 11:19 AM
Created	: 11/6/2007 2:08 PM		
Column	:	Detection	: Radiochemical
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



Result Table (Uncal - L:\intb4021 - Unit 11 Radio)

	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	W05 [min]
1	2.683	141.239	6.574	0.4	0.7	0.38
2	3.070	31.275	3.101	0.1	0.3	0.09
3	3.340	20.318	3.500	0.1	0.4	0.06
4	3.487	22.185	2.976	0.1	0.3	0.08
5	3.720	39.217	4.078	0.1	0.5	0.06
6	4.233	52.820	3.438	0.2	0.4	0.13
7	9.810	33703.140	863.149	99.0	96.9	0.53
8	12.240	45.104	4.074	0.1	0.5	0.20
	Total	34055.298	890.890	100.0	100.0	

RT: 0.00 - 2.01



MC2235-20100422-SB#1-49 RT: 0.03-2.01 AV:

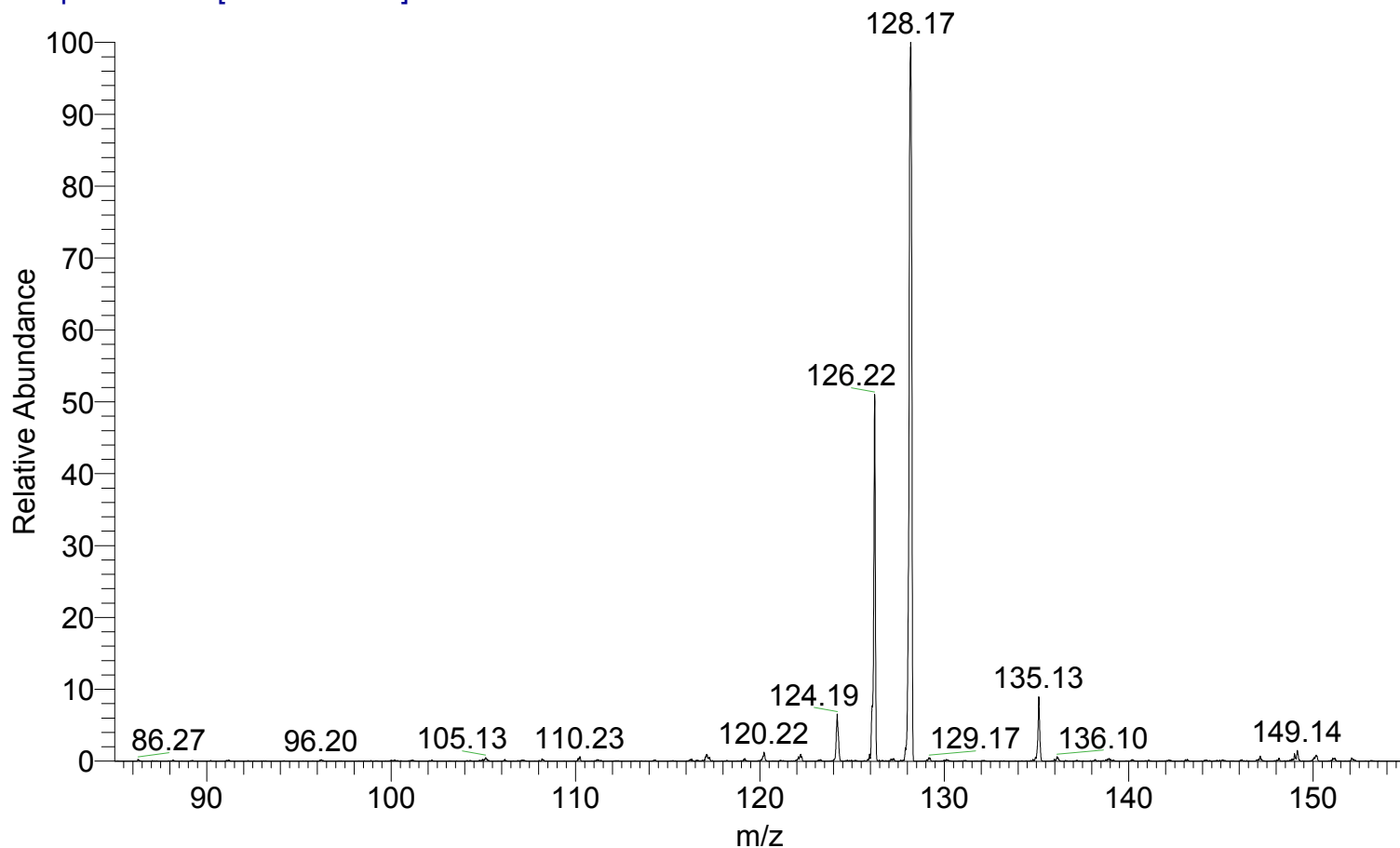
T: + p NSI Z ms [85.00-155.00]

m/z= 112.60-134.73

m/z	Intensity	Relative
119.14	2028.2	0.27
120.19	7500.8	0.98
121.11	1086.5	0.14
122.15	7605.2	0.99
123.25	1375.7	0.18
124.20	38956.7	5.10
124.98	1889.2	0.25
126.20	249343.9	32.61
127.14	3185.3	0.42
128.16	764598.6	100.00
129.16	3223.3	0.42
130.13	1922.9	0.25
131.04	1028.0	0.13
132.07	1027.7	0.13
133.10	498.5	0.07

MC2235-20100422-SB #1-49 RT: 0.03-2.01 AV: 49 NL: 2.21E4

T: + p NSI Z ms [85.00-155.00]



MC2235 1H NMR in D2O
Batch 20100422-SB



1.194
1.179

3.444

4.112

NAME MC2235-20100422-SB
EXPNO 1
PROCNO 1
Date_ 20100617
Time 11.29
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 294.2 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

