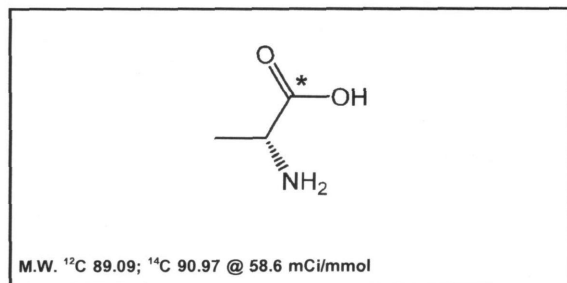




## Product Data Sheet

**MC-2198**

**D-Alanine, [1-<sup>14</sup>C]-**



**Lot #:** 742-008-0586-A-20110609-SB

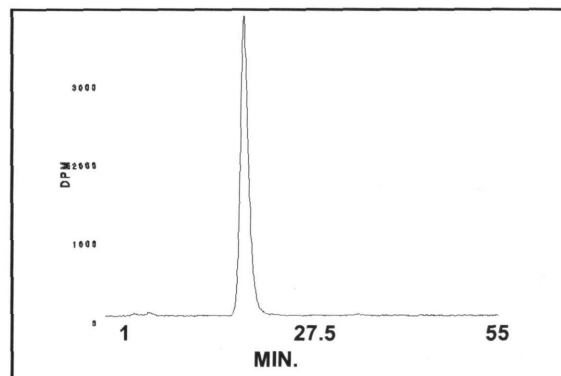
**Specific Activity:** 58.6 mCi/mmol

**Concentration:** 0.1 mCi/ml; 155.24 µg/ml

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

**Date of Analysis:** September 10, 2012

**Radiochemical Purity:** 98.3%



HPLC ANALYSIS LOT 742-008-0586-A-20110609-SB  
File Name: int62120 Date and Time: 9/10/2012 9:33:17 AM  
Unit 6 Radio

Peak #	Area %	Time	Area
1	0.61	4.15330	194.10223
2	0.81	6.32000	260.18286
3	98.33	19.46000	31484.07280
4	0.25	35.46670	79.44852
Totals	100.00		32017.80641

**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-2198**

**D-Alanine, [1-<sup>14</sup>C]-**

**Lot 742-008-0586-A-20110609-SB**

**A) The chromatogram was run using the HPLC method described on the Product Data Sheet.**

**Concentrations and volumes:**

**D-Alanine, [1-<sup>14</sup>C]-** concentration was 0.1 mCi/mL.

Volume of **D-Alanine, [1-<sup>14</sup>C]-** injection was 1.0 mL.

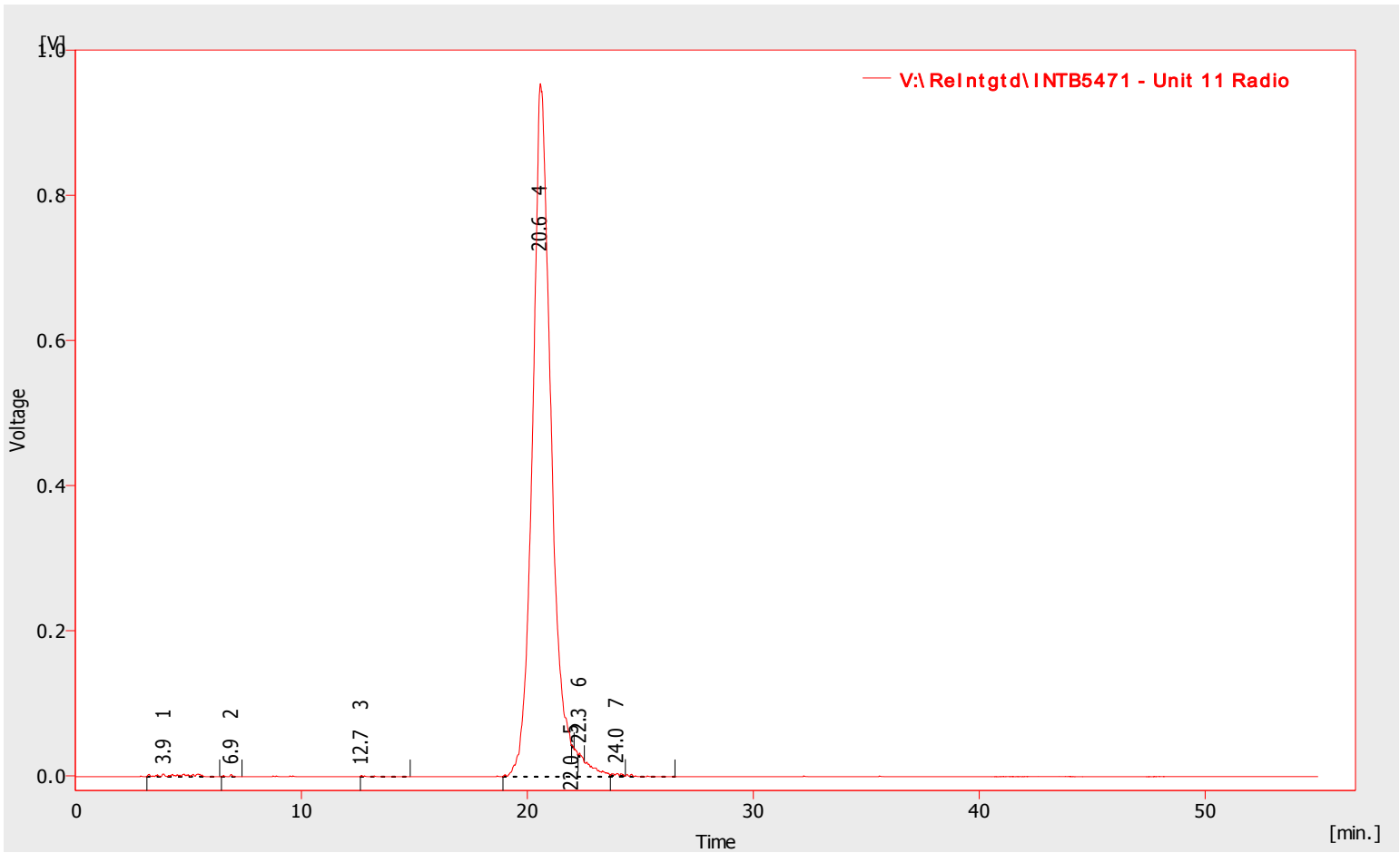
**B) Mass spectrometry – Positive mode**

**C) NMR**

**MC-2198**  
**D-Alanine, [1-14C]-**  
**Lot 742-008-0586-A-20110609-SB**

Chromatogram Info:

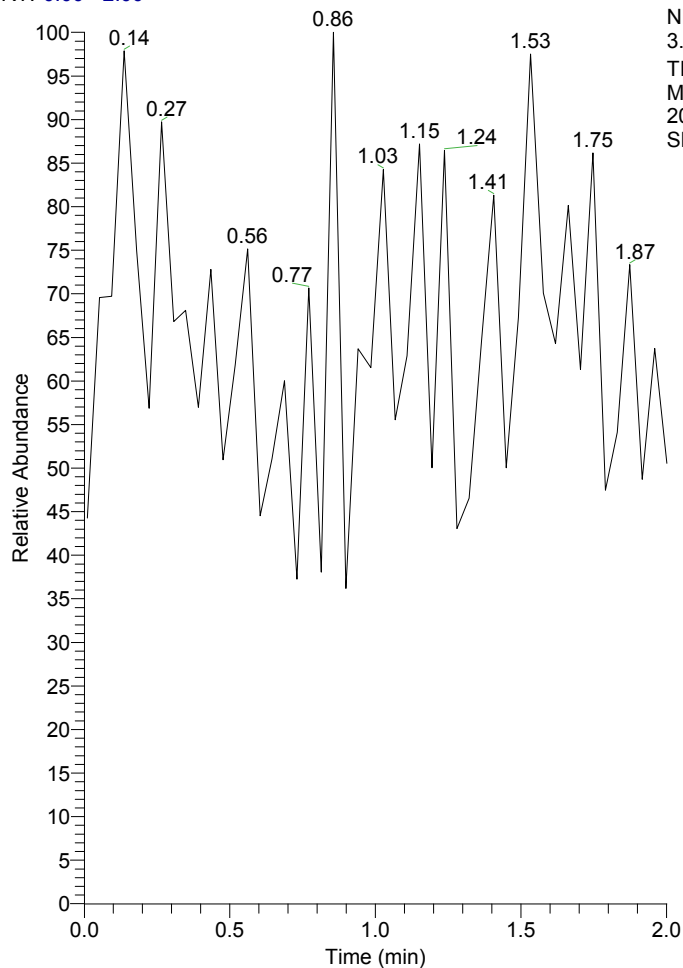
File Name	: V:\ReIntgtd\INTB5471	File Created	: 6/9/2011 12:55:11 PM
Origin	: Acquired	Acquired Date	: 6/9/2011 10:55:21 AM
Project	: Test	By	: Administrator
Method	: Unit11_55_min_run	By	: Administrator
Description	: Radiochemical trace of D-Alanine, [1-14C]-	Modified	: 8/15/2011 9:34 AM
Created	: 11/6/2007 2:08 PM		
Column	:	Detection	: Radiochemical
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



Result Table (Uncal - V:\ReIntgtd\INTB5471 - Unit 11 Radio)

	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	W05 [min]
1	3.917	262.700	3.671	0.47	0.4	0.12
2	6.903	26.371	3.155	0.05	0.3	0.09
3	12.657	15.421	1.967	0.03	0.2	0.06
4	20.577	55701.406	954.966	99.21	98.2	0.83
5	21.960	9.014	0.023	0.02	0.0	0.01
6	22.310	51.693	4.945	0.09	0.5	0.07
7	23.960	77.457	3.378	0.14	0.3	0.16
	Total	56144.063	972.106	100.00	100.0	

RT: 0.00 - 2.00



NL:  
3.85E6  
TIC MS  
MC2198-  
20110609-  
SB

MC2198-20110609-SB#1-48 RT: 0.01-2.00 AV:

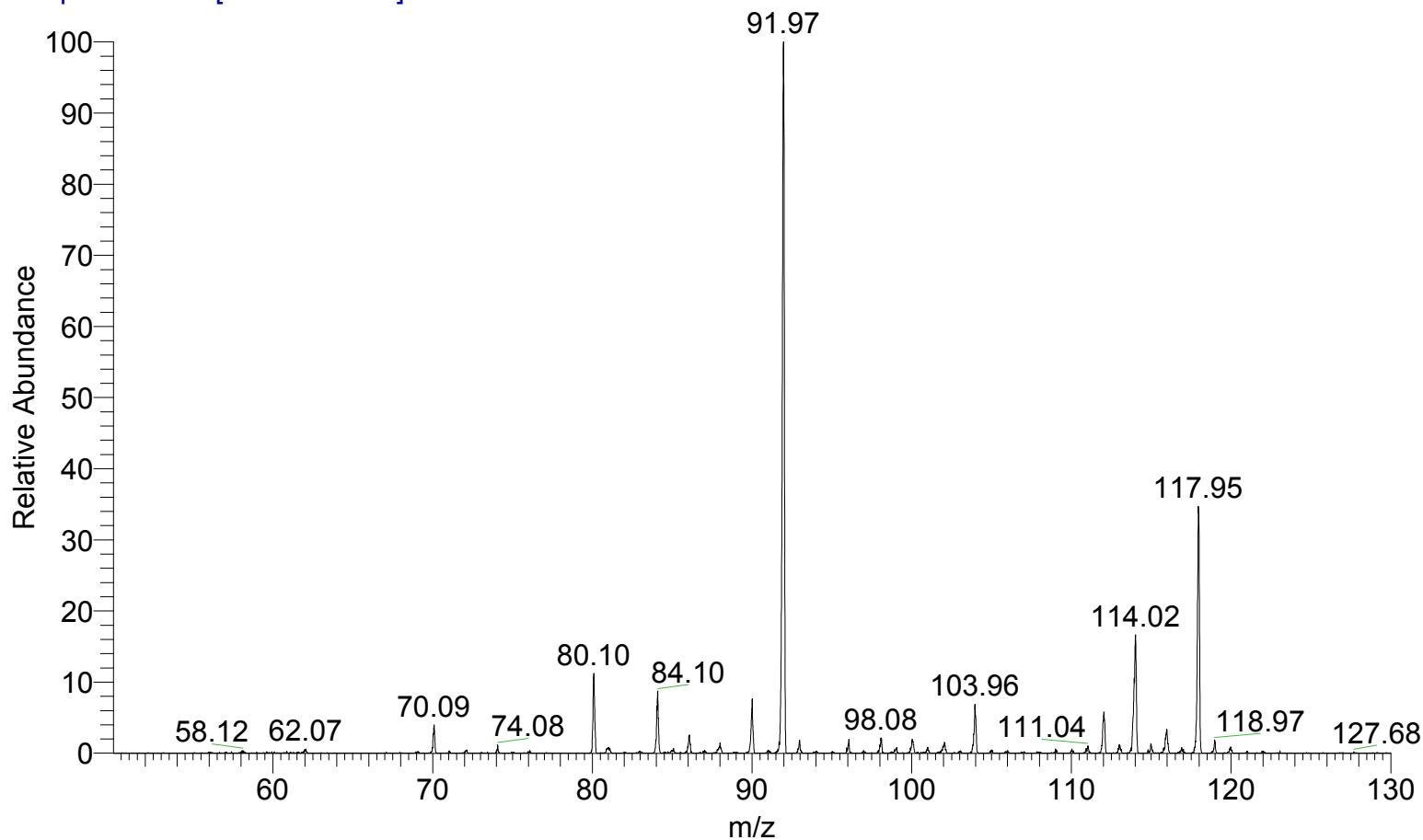
T: + p NSI Z ms [50.00-130.00]

m/z= 84.68-102.81

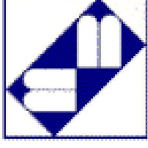
m/z	Intensity	Relative
88.97	1655.1	0.15
89.99	69824.1	6.36
91.03	4378.1	0.40
91.95	1098091.8	100.00
92.96	15189.1	1.38
93.99	3399.9	0.31
95.02	1792.0	0.16
96.03	14012.1	1.28
97.01	2865.4	0.26
98.05	20936.3	1.91
98.97	9150.6	0.83
100.04	23304.2	2.12
100.95	8621.8	0.79
101.99	20510.3	1.87

MC2198-20110609-SB #1-48 RT: 0.01-2.00 AV: 48 NL: 3.54E4

T: + p NSI Z ms [50.00-130.00]



MC2198 1H NMR in D2O  
Batch 20110609-SB



1.323  
1.305

3.619  
3.601

NAME MC2198-20110609-SE  
EXPNO 1  
PROCNO 1  
Date\_ 20110804  
Time 14.56  
INSTRUM spect  
PROBHD 5 mm PABBO BB-  
PULPROG zg30  
TD 65536  
SOLVENT D2O  
NS 512  
DS 2  
SWH 8012.820 Hz  
FIDRES 0.122266 Hz  
AQ 4.0894966 sec  
RG 362  
DW 62.400 use  
DE 6.50 use  
TE 294.9 K  
D1 1.00000000 sec  
TD0 1  
==== CHANNEL f1 =====  
NUC1 1H  
P1 14.50 use  
PL1 -0.70 dB  
PL1W 10.03411102 W  
SF01 400.1324710 MHz  
SI 32768  
SF 400.1300185 MHz  
EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 1.00

