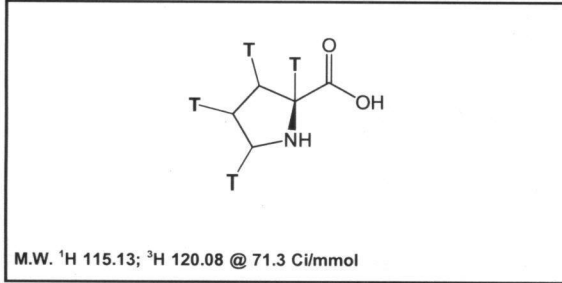




## Product Data Sheet

**MT-522E**

**L-Proline, [2,3,4,5-<sup>3</sup>H]-**



**Lot #:** 195-141-0713-A-20090325-MW

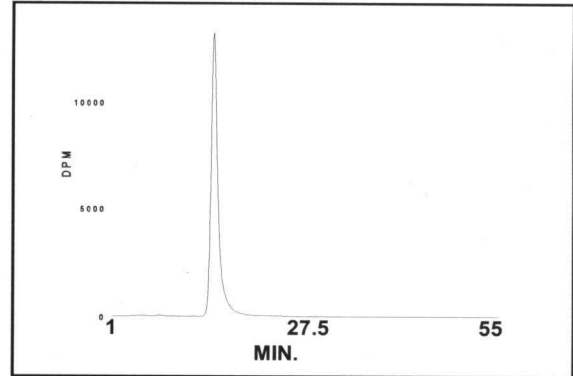
**Specific Activity:** 71.3 Ci/mmol

**Concentration:** 5.0 mCi/ml; 8.42 µg/ml

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

**Date of Analysis:** July 14, 2010

**Radiochemical Purity:** 98.8%



HPLC ANALYSIS LOT 195-141-0713-A-20090325-MW  
File Name: int61422 Date and Time: 7/14/2010 7:59:51 AM  
Unit 6 Radio

Peak #	Area %	Time	Area
1	1.00	6.78670	953.58109
2	98.88	14.43670	94394.92822
3	0.12	23.59000	115.63957
Totals	100.00		95464.14888

**Stability and Storage Recommendation:** The rate of decomposition is approximately 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.

**MT-522E**

**L-Proline, [2,3,4,5-<sup>3</sup>H]-**

**Lot 195-141-0713-A-20090325-MW**

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

**Concentrations and volumes:**

**L-Proline, [2,3,4,5-<sup>3</sup>H]-** concentration was 1.0 mCi/ml.

Volume of **L-Proline, [2,3,4,5-<sup>3</sup>H]-** injection was 3.0 µl.

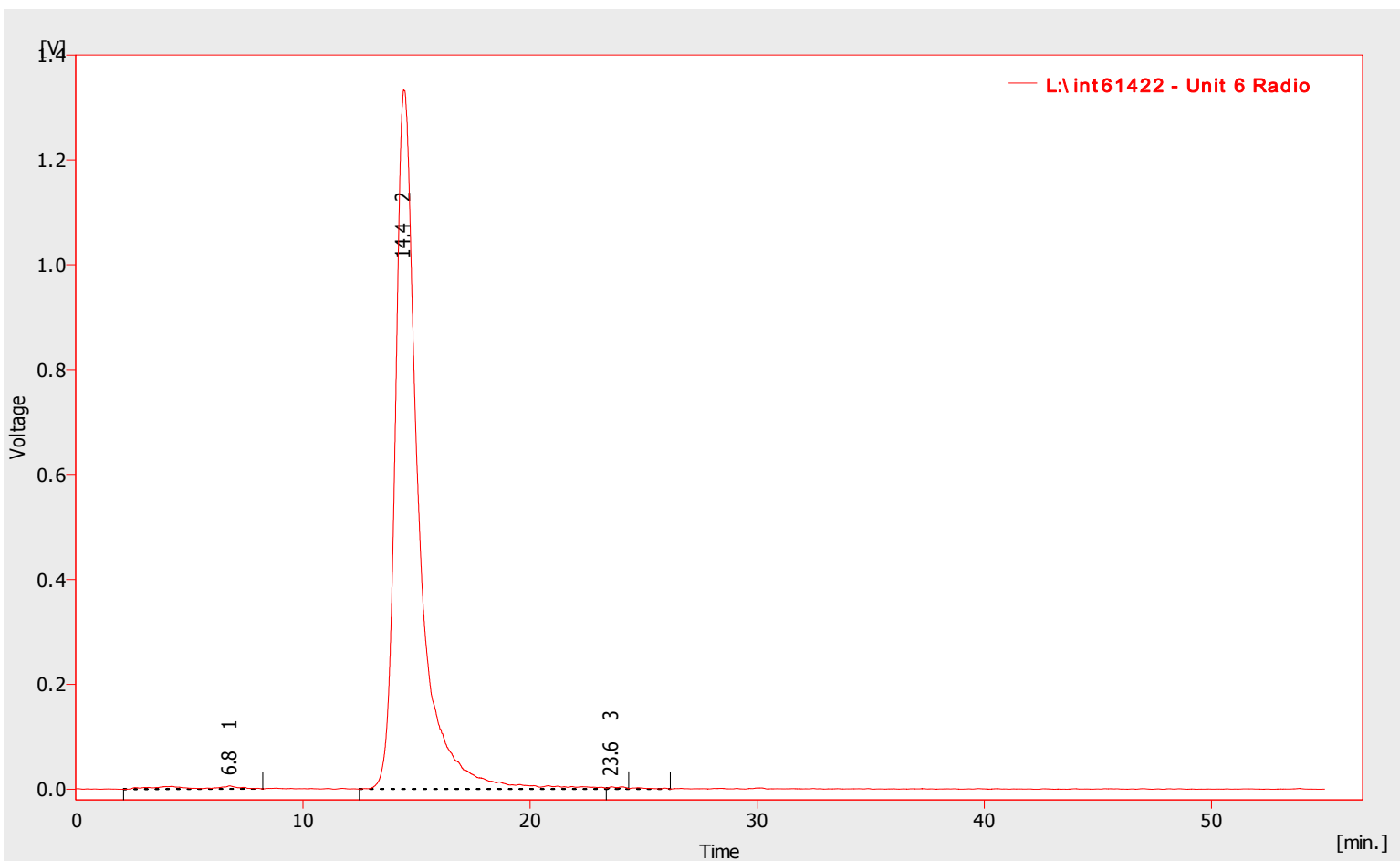
**B) Mass spectrometry – Positive mode**

**C) NMR**

**MT-522E**  
**L-Proline, [2,3,4,5-3H]-**  
**Lot 195-141-0713-A-20090325-MW**

Chromatogram Info:

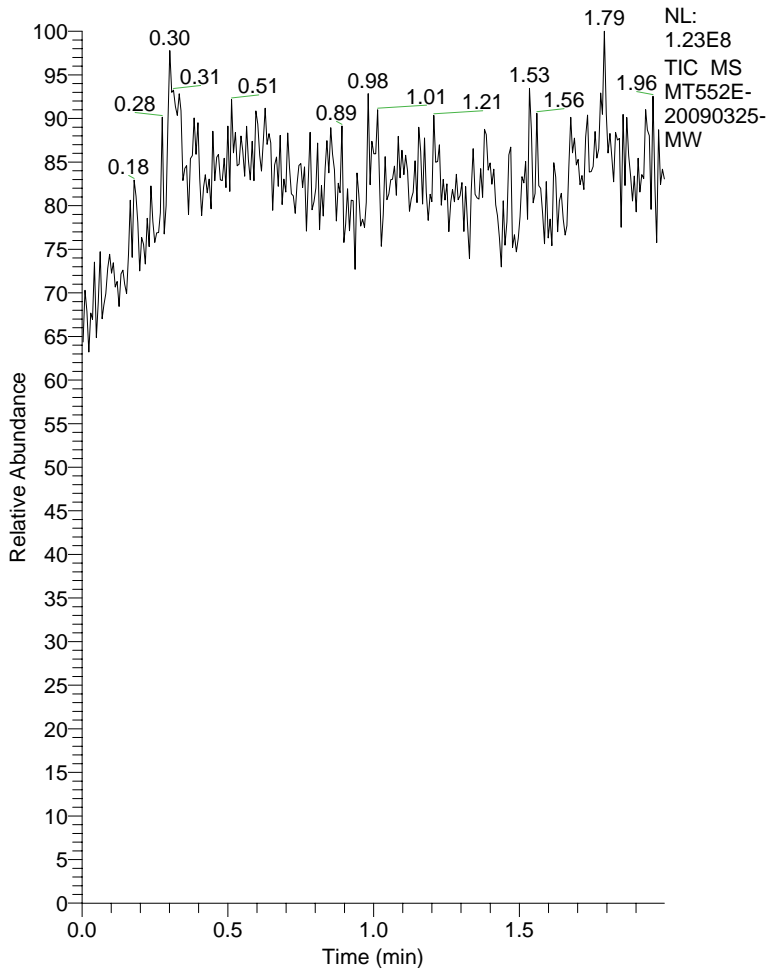
File Name	: L:\int61422	File Created	: 7/14/2010 8:19:57 AM
Origin	: Acquired	Acquired Date	: 7/14/2010 7:59:51 AM
Project	: Test	By	: Administrator
Method	: Unit6-55minrun	By	: Administrator
Description	: Radiochemical trace of L-Proline, [2,3,4,5-3H]-	Modified	: 7/29/2010 4:01 PM
Created	: 6/30/2010 9:35 AM		
Column	:	Detection	: Radiochemical
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



Result Table (Uncal - L:\int61422 - Unit 6 Radio)

	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	W05 [min]
1	6.787	953.581	6.167	1.00	0.5	0.72
2	14.437	94394.928	1334.309	98.88	99.3	0.92
3	23.590	115.640	3.070	0.12	0.2	0.29
	Total	95464.149	1343.545	100.00	100.0	

RT: 0.00 - 2.00



MT552E-20090325-MW#1-311 RT: 0.00-2.00

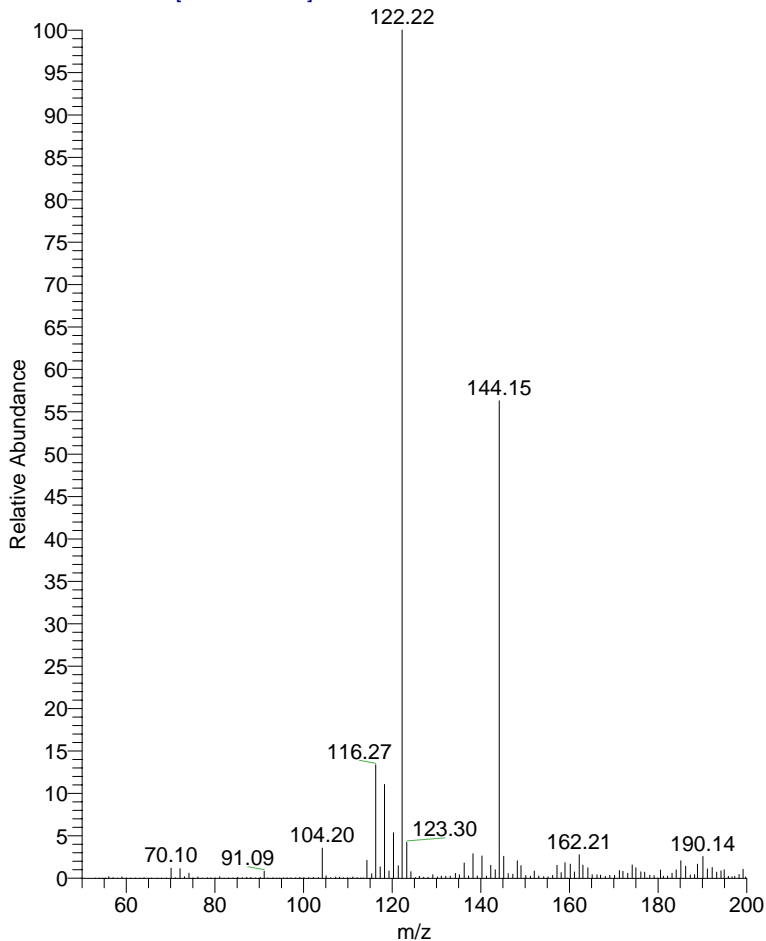
T: + c NSI Full ms [50.00-200.00]

m/z = 115.29-127.66

m/z	Intensity	Relative
115.37	192608.7	0.52
116.27	4996447.7	13.38
117.29	496077.5	1.33
118.28	4123138.4	11.04
119.28	311247.4	0.83
120.28	1997325.0	5.35
121.39	548337.2	1.47
122.22	37353354.2	100.00
123.30	1578495.8	4.23
124.24	288795.7	0.77
125.26	25921.1	0.07
126.14	78239.0	0.21
127.11	40619.7	0.11

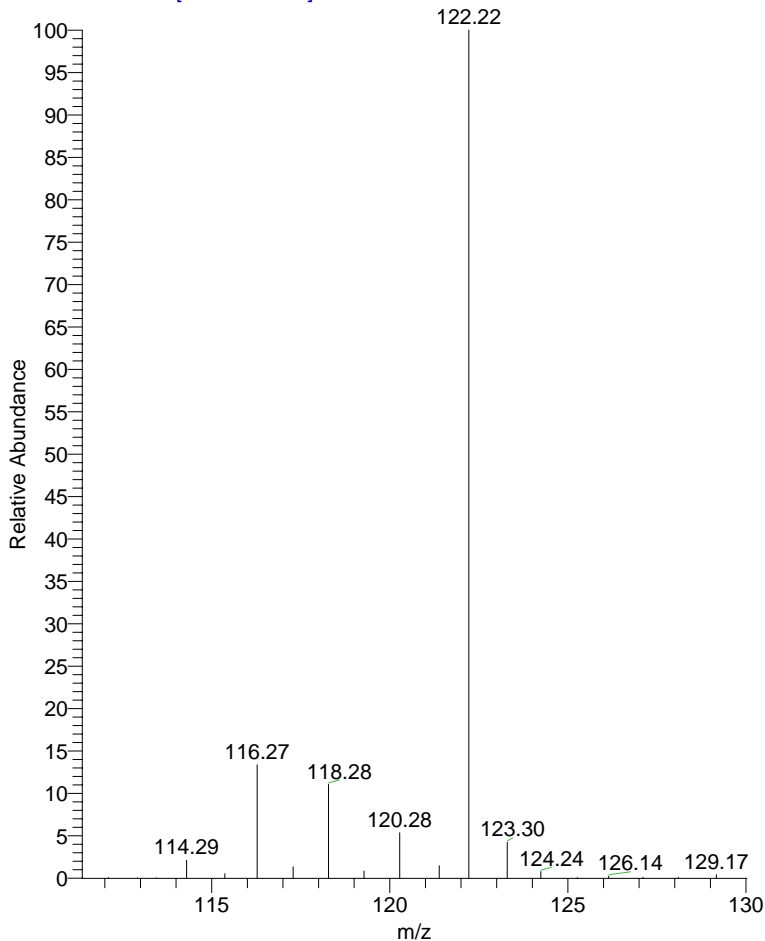
MT552E-20090325-MW #1-311 RT: 0.00-2.00 AV: 311 NL: 3.74E7

T: + c NSI Full ms [50.00-200.00]



MT552E-20090325-MW #1-311 RT: 0.00-2.00 AV: 311 NL: 3.74E7

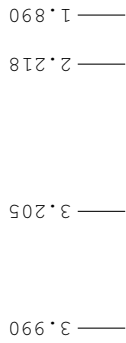
T: + c NSI Full ms [50.00-200.00]



MT522E 3H NMR in D2O  
Batch 20090325-MW



**BRUKER**



NAME MT522E  
EXPNO 1  
PROCNO 1  
Date\_ 20090715  
Time\_ 20.40  
INSTRUM spect  
PROBHD 5 mm DUX 3H-1H  
PULPROG zg  
TD 16384  
SOLVENT D2O  
NS 10000  
DS 2  
SWH 6172.839 Hz  
FIDRES 0.376760 Hz  
AQ 1.3271540 sec  
RG 46341  
DW 81.000 usec  
DE 6.00 usec  
TE 300.0 K  
D1 2.00000000 sec  
TD0 1

==== CHANNEL f1 =====  
NUC1 3H  
P1 10.00 usec  
PL1 2.00 dB  
SFO1 320.1321857 MHz  
SI 32768  
SF 320.1305850 MHz  
WDW EM  
SSB 0  
LB 2.40 Hz  
GB 0  
PC 1.00

