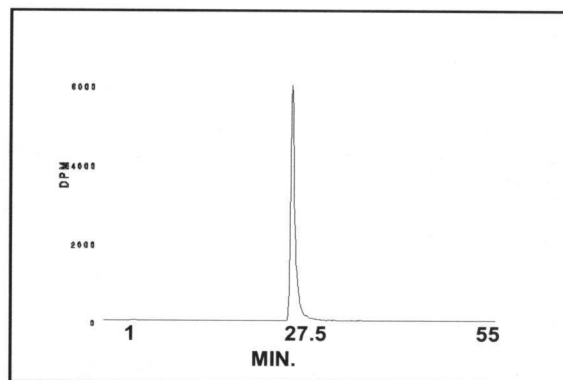
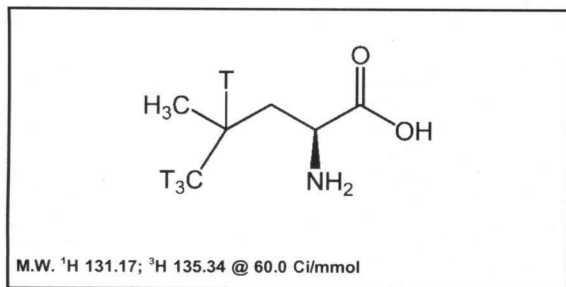




# Product Data Sheet

**MT-672M**

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



**Lot #:** 212-044-060-A-20100812-DG

**Specific Activity:** 60.0 Ci/mmol

**Concentration:** 1.0 mCi/ml; 2.27 µg/ml

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

**Date of analysis:** December 08, 2010

**Radiochemical Purity:** 99.1%

HPLC ANALYSIS LOT 212-044-060-A-20100812-DG  
File Name: int61592 Date and Time: 12/8/2010 3:50:51 PM  
Unit 6 Radio

Peak #	Area %	Time	Area
1	0.33	4.39670	89.90395
2	99.17	26.57330	27088.54860
3	0.12	28.64000	32.85980
4	0.08	29.18670	20.49255
5	0.31	31.67330	83.88203
Totals	100.00		27315.68693

**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-672M**

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

**Lot 212-044-060-A-20100812-DG**

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

**Concentrations and volumes:**

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

Volume of **L-Leucine, [4,5-<sup>3</sup>H]-** injection was 1.0  $\mu$ l.

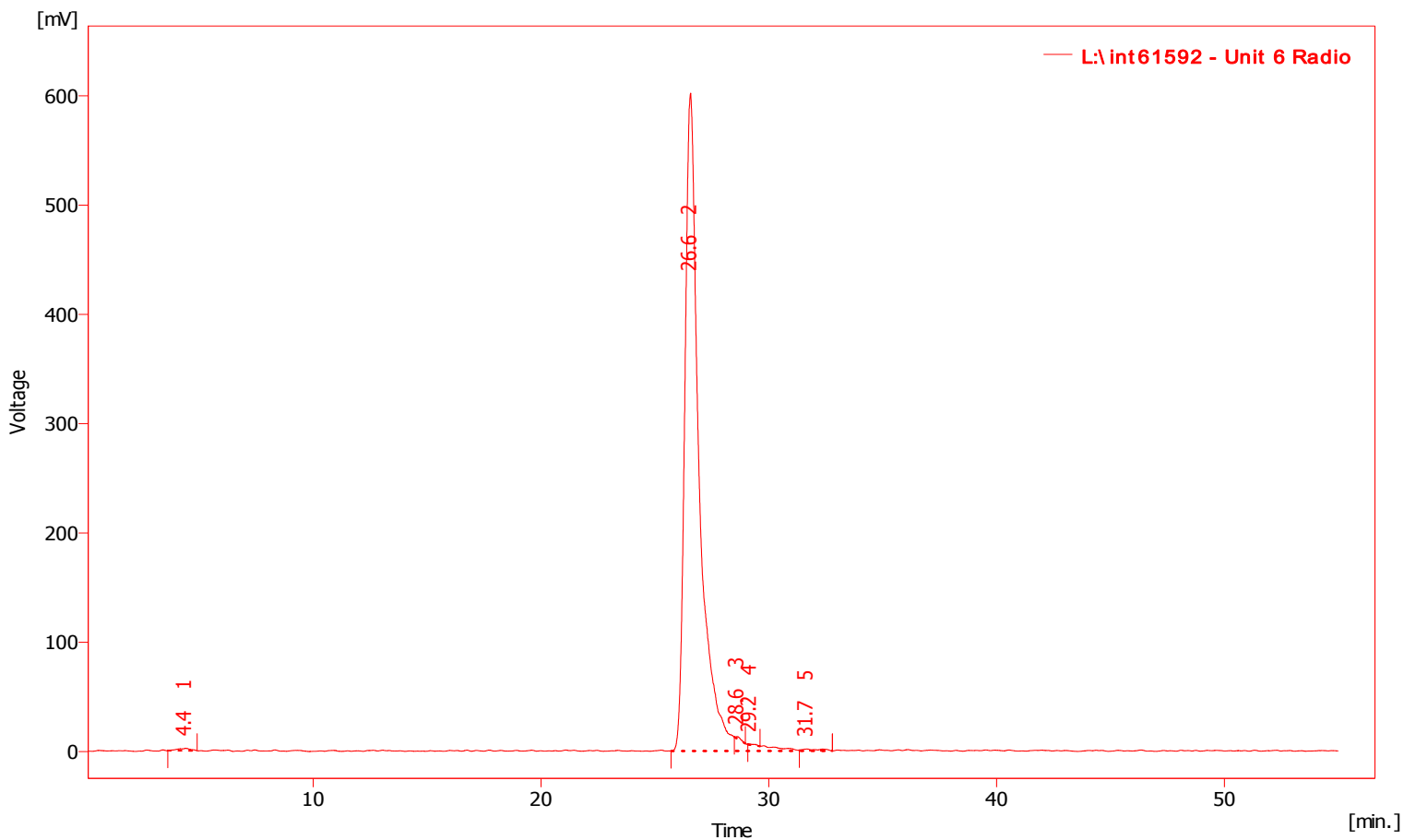
**B) Mass spectrometry – Positive mode**

**C) NMR**

**MT-672M**  
**L-Leucine, [4,5-3H]-**  
**Lot 212-044-060-A-20100812-DG**

Chromatogram Info:

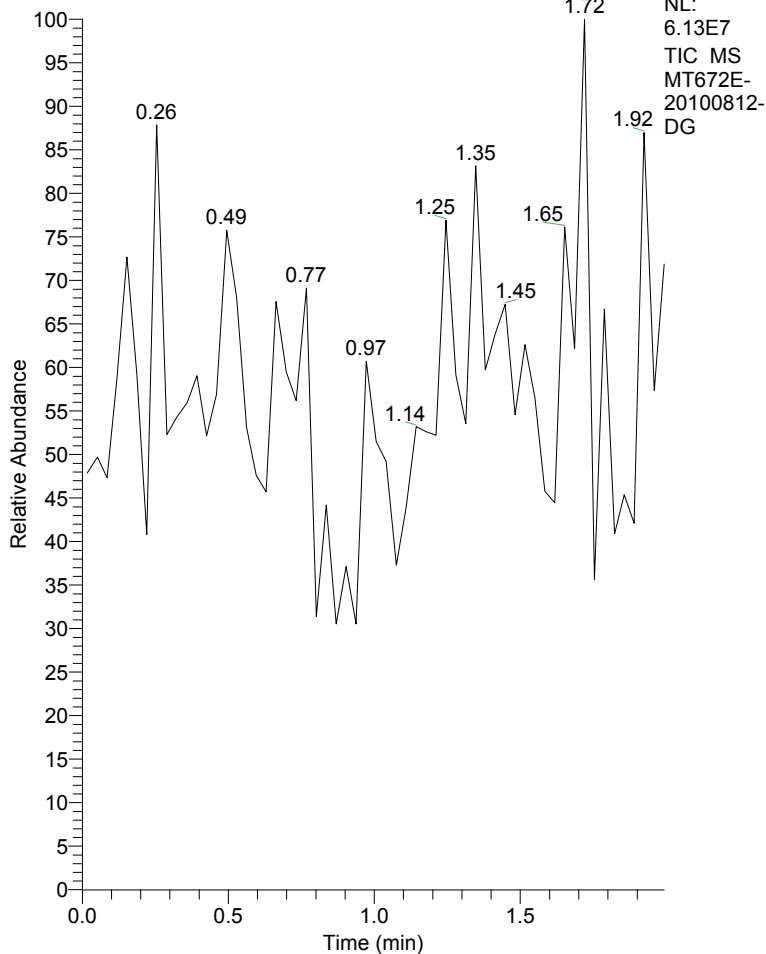
File Name	: L:\int61592	File Created	: 3/3/2014 4:18:50 PM
Origin	: Acquired, Acquisition started 12/8/2010 2:55:52 PM	Acquired Date	: 12/8/2010 3:50:51 PM
Project	: Test	By	: Administrator
Method	: Unit6-55minrun	By	: Administrator
Description	: Radiochemical trace of L-Leucine, [4,5-3H]- alone	Modified	: 3/3/2014 4:24 PM
Created	: 6/30/2010 9:35 AM		
Column	:	Detection	: Radiochemical
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



Result Table (Uncal - L:\int61592 - Unit 6 Radio)

Compound Name	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	Efficiency [th.pl]	Eff/l [t.p./m]	Symmetry/Tailing [-]	Response Factor	Resolution [-]
1	4.40	89.904	2.37	0.33	0.39	294.20	5883.99	0.83		
2	26.57	27088.549	602.11	99.17	98.85	11366.30	227325.94	4.11		22.0
3	28.64	32.860	2.36	0.12	0.39	88446.46	1768929.28	1.61		3.0
4	29.19	20.493	0.80	0.08	0.13	151206.18	3024123.53	2.44		1.6
5	31.67	83.882	1.49	0.31	0.25	38488.42	769768.46	2.22		5.3
Total		27315.687	609.13	100.00	100.00					

RT: 0.00 - 1.99



NL:  
6.13E7  
TIC MS  
MT672E-  
20100812-  
DG

MT672M-20100812-DG#1-59 RT: 0.02-1.99 AV:

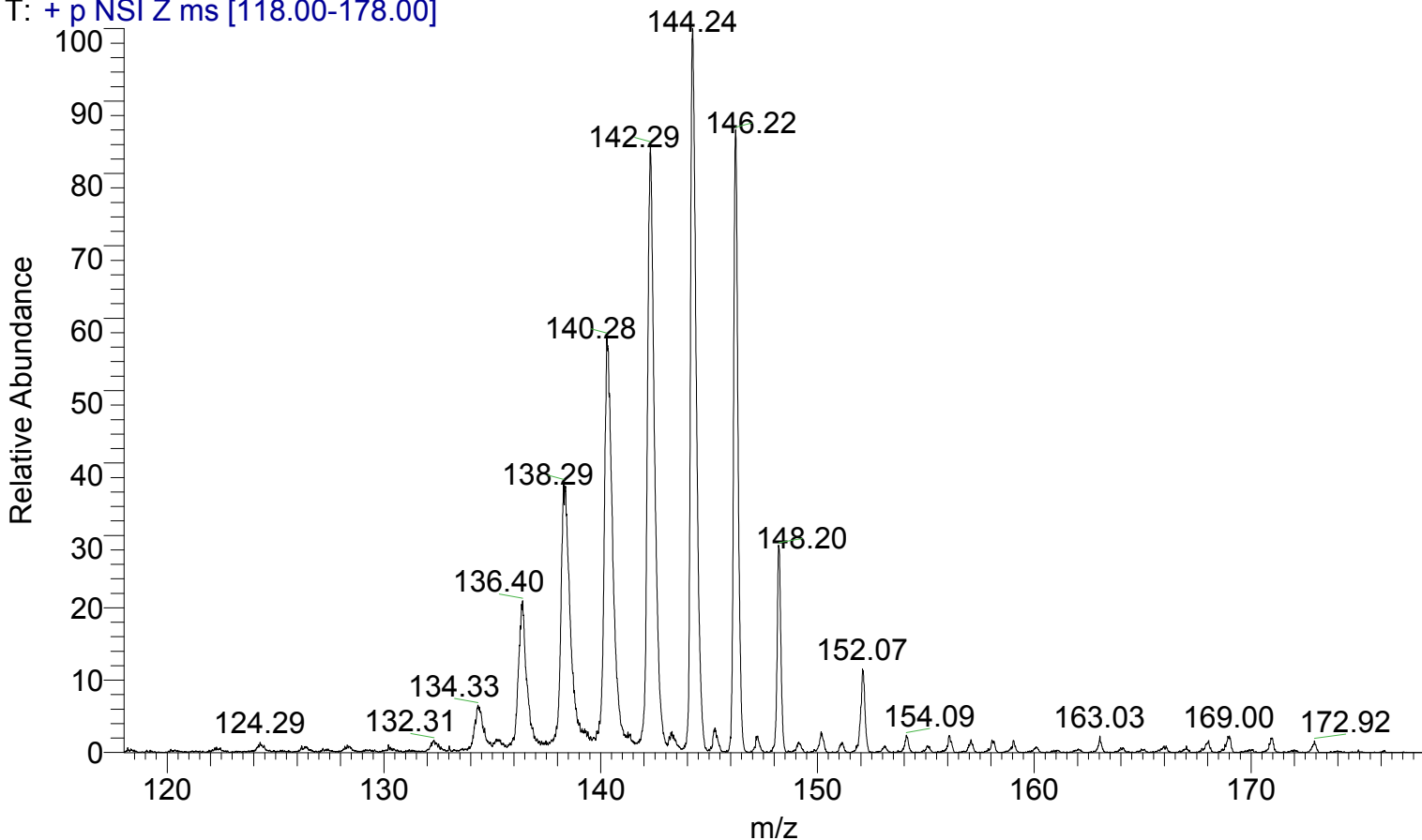
T: + p NSI Z ms [118.00-178.00]

m/z = 130.89-151.50

m/z	Intensity	Relative
131.28	32960.0	0.50
132.34	159209.7	2.42
134.37	681578.7	10.37
135.28	195865.8	2.98
136.40	1945554.6	29.61
137.19	138474.4	2.11
138.38	3804168.0	57.89
139.25	351521.2	5.35
140.37	5268162.5	80.17
141.22	308431.9	4.69
142.34	6570874.5	100.00
143.24	271685.1	4.13
144.30	6342095.5	96.52
145.25	199898.6	3.04
146.24	4168193.3	63.43
147.23	108803.4	1.66
148.23	1171748.5	17.83
149.13	78018.5	1.19
150.16	134966.8	2.05
151.11	63960.9	0.97

MT672M-20100812-DG #1-59 RT: 0.02-1.99 AV: 59 NL: 1.01E5

T: + p NSI Z ms [118.00-178.00]



MT672M 3H NMR in D2O  
Batch 20100812-DG



**BRUKER**

1.588  
1.549  
1.516  
1.464  
0.851  
0.804  
0.798  
0.759

NAME MT672M-20100812-DG  
EXPNO 1  
PROCNO 1  
Date\_ 20101004  
Time\_ 15.22  
INSTRUM spect  
PROBHD 5 mm DUX 3H-1H  
PULPROG zg  
TD 16384  
SOLVENT D2O  
NS 5000  
DS 2  
SWH 6172.839 Hz  
FIDRES 0.376760 Hz  
AQ 1.3271540 sec  
RG 46341  
DM 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 no  
SSB 0  
LB 0.00 Hz  
GB 0  
PC 1.00

