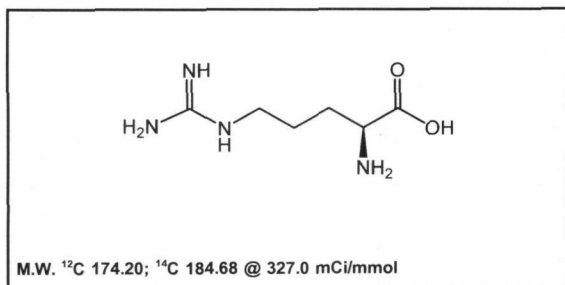




Product Data Sheet

MC-137

L-Arginine, [¹⁴C(U)]-



Lot #: 212-049-327-A-20090713-SB

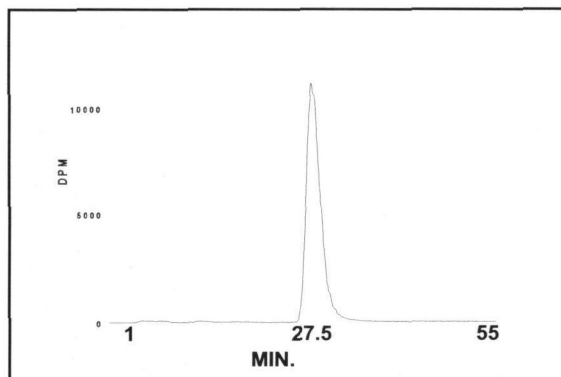
Specific Activity: 327.0 mCi/mmol

Concentration: 0.1 mCi/ml; 56.48 µg/ml

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

Date of Analysis: March 5, 2013

Radiochemical Purity: 98.3%



HPLC ANALYSIS LOT 212-049-327-A-20090713-SB
File Name: int62257 Date and Time: 3/5/2013 4:47:28 PM
Unit 6 Radio

Peak #	Area %	Time	Area
1	1.20	4.66330	1914.41363
2	0.35	12.99000	553.25210
3	98.34	28.89670	157227.12463
4	0.07	32.00670	116.12892
5	0.05	32.66670	74.14943
Totals	100.00		159885.06871

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-137

L-Arginine, [¹⁴C(U)]-

Lot 212-049-327-A-20090713-SB

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

Concentrations and volumes:

L-Arginine, [¹⁴C(U)]- concentration was 0.1 mCi/ml.

Volume of **L-Arginine, [¹⁴C(U)]-** injection was 1.0 µl.

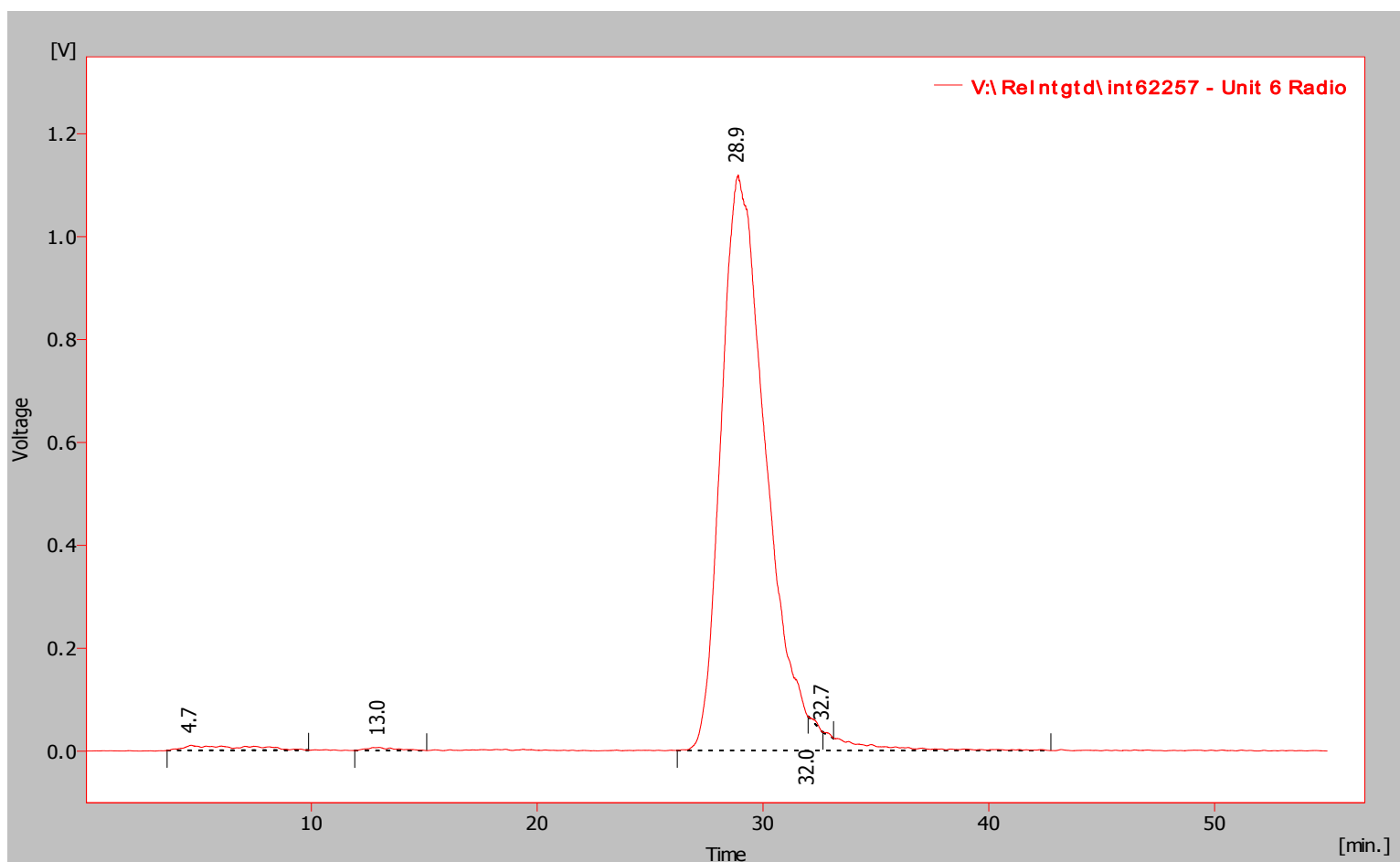
B) Mass spectrometry – Positive mode

C) NMR

MC-137
L-Arginine, [14C(U)]-
Lot 212-049-327-A-20090713-SB

Chromatogram Info:

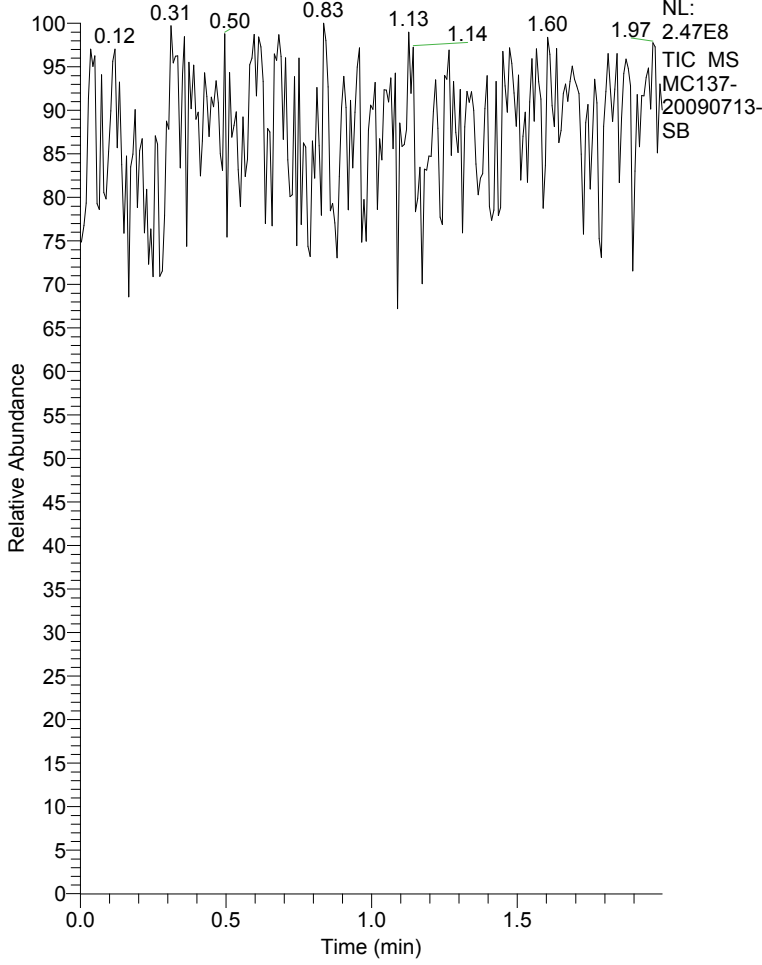
File Name	: V:\ReIntgtd\int62257	File Created	: 3/6/2013 10:44:29 AM
Origin	: Acquired, Acquisition started 3/5/2013 3:52:29 PM	Acquired Date	: 3/5/2013 4:47:28 PM
Project	: Test	By	: Administrator
Method	: Unit6-55minrun	By	: Administrator
Description	: Radiochemical trace of L-Arginine, [14C(U)]-	Modified	: 10/17/2013 10:44 AM
Created	: 6/30/2010 9:35 AM		
Column	:	Detection	: Radiochemical
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



Result Table (Uncal - V:\ReIntgtd\int62257 - Unit 6 Radio)

	Compound Name	Reten. Time [min]	Area [%]	Area [mV.s]	Height [mV]	Height [%]	Efficiency [th.pl]
1		4.66	1.20	1914.41	10.10	0.89	28.48
2		12.99	0.35	553.25	6.20	0.55	558.87
3		28.90	98.34	157227.12	1118.72	98.45	1048.98
4		32.01	0.07	116.13	0.96	0.08	31923697.39
5		32.67	0.05	74.15	0.30	0.03	21282464.00
		Total	100.00	159885.07	1136.28	100.00	

RT: 0.00 - 2.00



MC137-20090713-SB#1-260 RT: 0.00-2.00 AV:

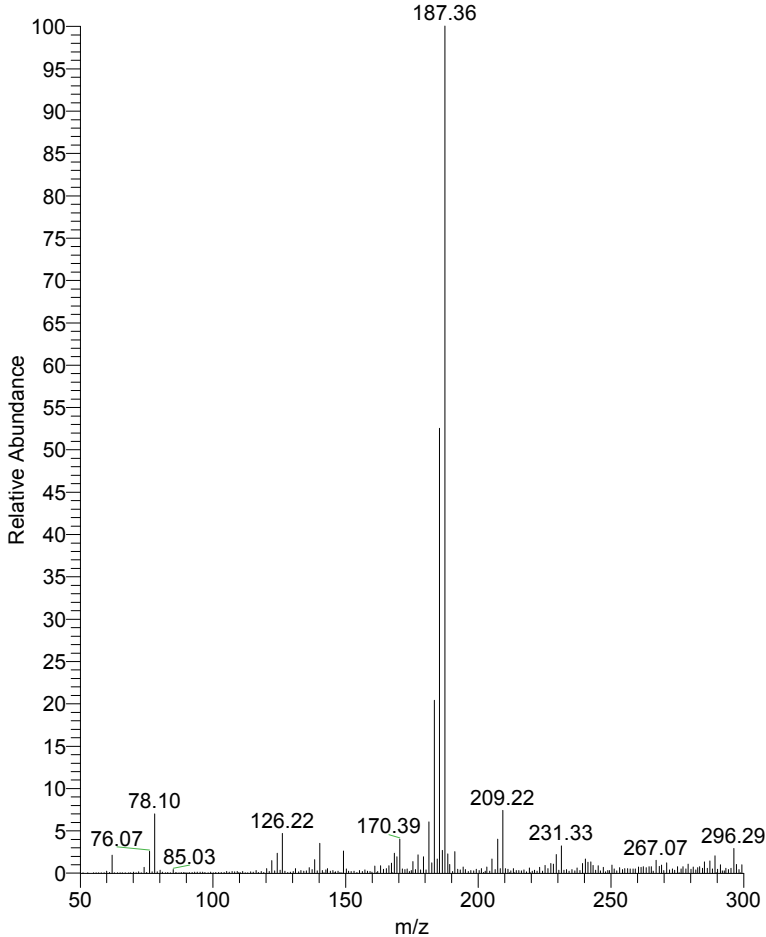
T: + c NSI Full ms [50.00-300.00]

m/z = 173.73-190.72

m/z	Intensity	Relative
179.34	1237013.5	1.92
180.36	242064.3	0.37
181.37	3887067.5	6.02
182.51	780098.6	1.21
183.42	13175638.2	20.40
184.57	1071013.5	1.66
185.35	33914740.8	52.51
186.48	1709625.0	2.65
187.36	64592832.2	100.00
188.54	1445972.8	2.24
189.29	634996.2	0.98
190.32	104985.7	0.16

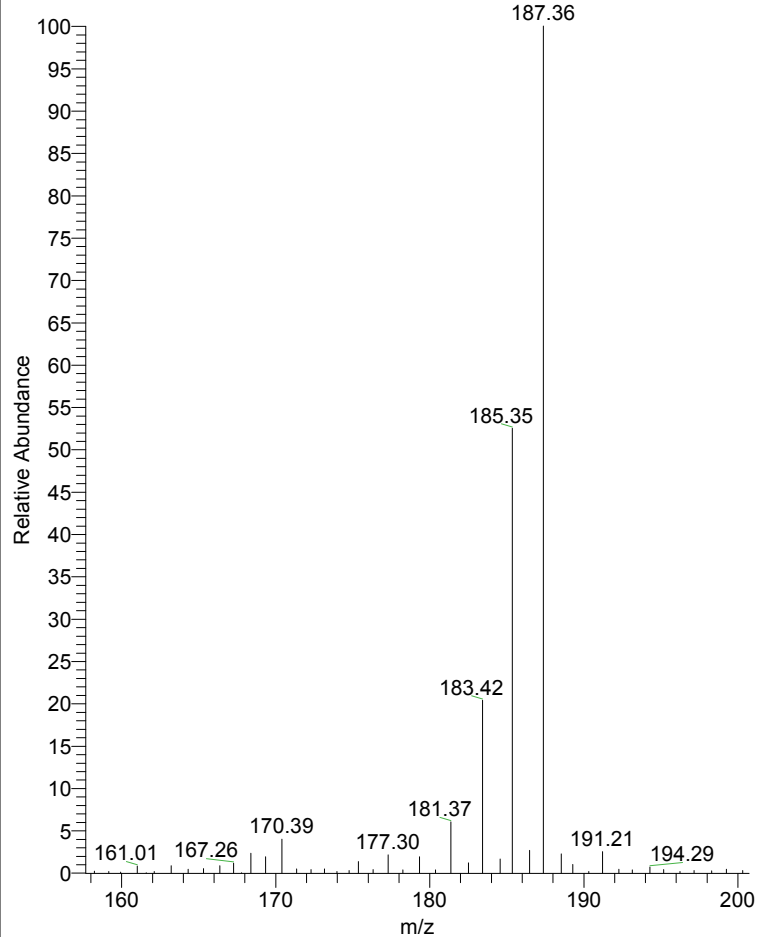
MC137-20090713-SB #1-260 RT: 0.00-2.00 AV: 260 NL: 6.46E7

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



MC137-20090713-SB #1-260 RT: 0.00-2.00 AV: 260 NL: 6.46E7

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



MC137 1H NMR in D2O
Batch 20090713-SB



1.843
1.826
1.651
1.632
1.608
1.583

3.695
3.188
3.170
3.155

NAME MC137-20090713-SB
EXPNO 1
PROCNO 1
Date_ 20110105
Time 14.05
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
SF01 400.1324710 MHz
SI 32768
SF 400.1299802 MHz
WDW no
SSB 0
LB 0.00 Hz
GB 0
PC 1.00

