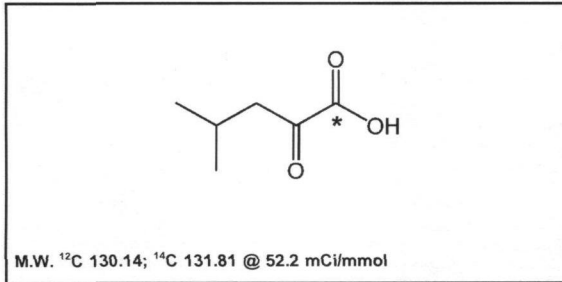




Product Data Sheet

MC-2338

2-Ketoisocaproic acid, [1-¹⁴C]-



Lot #: 642-087-0522-A-20100126-SB

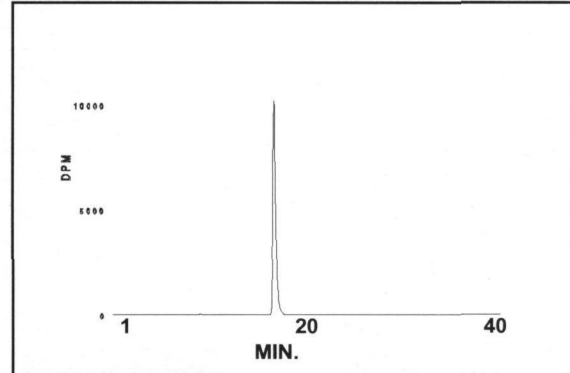
Specific Activity: 52.2 mCi/mmol

Concentration: 0.1 mCi/ml; 252.52 µg/ml

Packaged in: 0.01N HCl solution

Date of Analysis: January 28, 2010

Radiochemical Purity: 99.5%



HPLC ANALYSIS LOT 642-087-0522-A-20100126-SB
File Name: intA2110 Date and Time: 1/28/2010 9:17:47 AM
Unit 10 Radio

Peak #	Area %	Time	Area
1	0.35	9.11330	73.38142
2	0.05	12.08000	9.63184
3	0.05	12.84670	10.03265
4	99.53	16.78670	20713.10152
5	0.03	18.38000	5.73611
Totals	100.00		20811.88354

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-2338

2-Ketoisocaproic acid, [1-¹⁴C]-

Lot 642-087-0522-A-20100126-SB

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

Concentrations and volumes:

Standard solution concentration was 1.0 mg/ml.

2-Ketoisocaproic acid, [1-¹⁴C]- concentration was 75.0 µCi/ml.

Volume of standard alone injection was 10.0 µl.

Volume of **2-Ketoisocaproic acid, [1-¹⁴C]-** alone injection was 2.5 µl.

Co-injection solution consisted of 2.5 µl **2-Ketoisocaproic acid, [1-¹⁴C]-** + 10.0 µl standard.

Volume of co-injection was 12.5 µl.

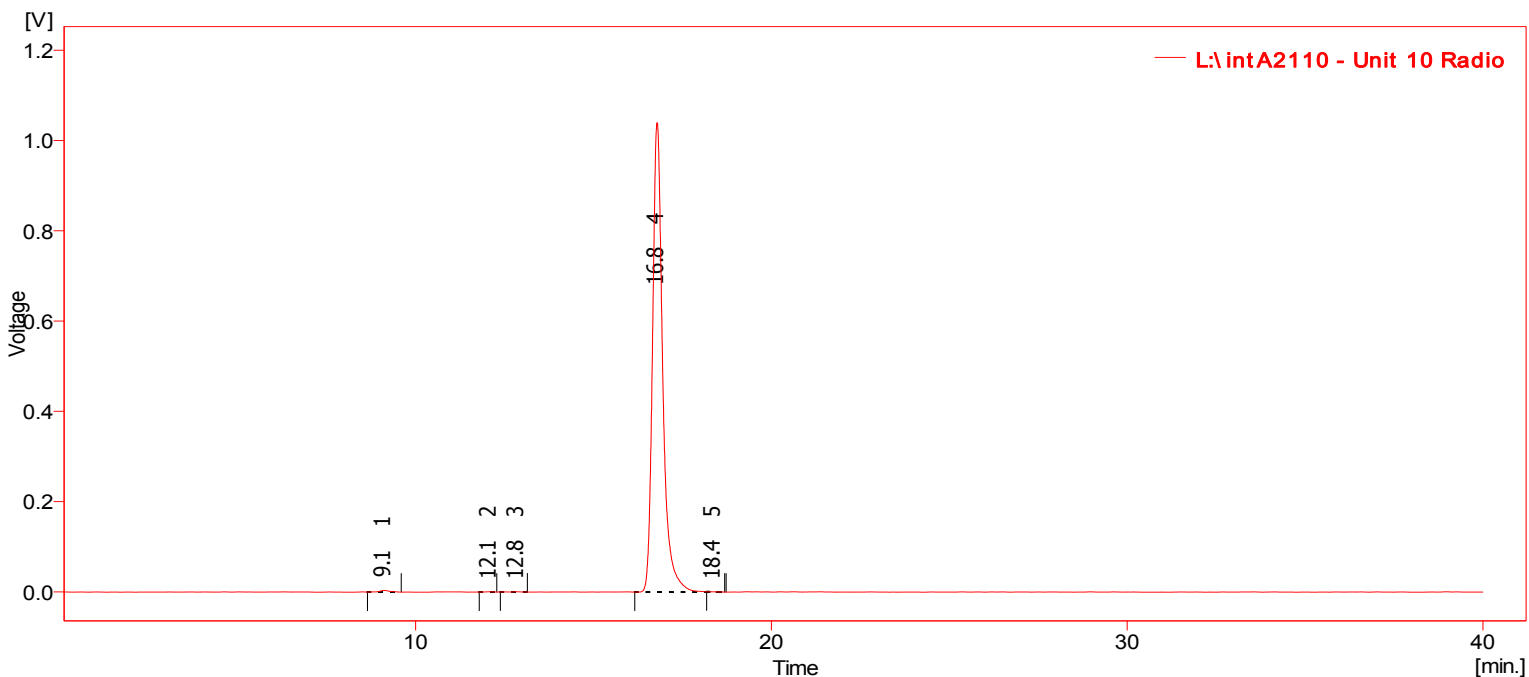
Volume of blank injection was 2.5 µl.

B) Mass spectrometry - Negative mode

MC-2338
2-Ketoisocaproic acid, [1-14C]-
Lot 642-087-0522-A-20100126-SB

Chromatogram Info:

File Name	: L:\intA2110	File Created	: 5/9/2014 12:44:00 PM
Origin	: Acquired, Acquisition started 1/28/2010 8:37:48 AM	Acquired Date	: 1/28/2010 9:17:47 AM
Project	: Work1	By	: Administrator
Method	: Unit10_40_min_run	By	: Administrator
Description	: Radiochemical trace of 14C material alone	Modified	: 5/12/2014 8:55 AM
Created	: 7/30/2007 9:03 AM		
Column	:	Detection	: Radiochemical
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



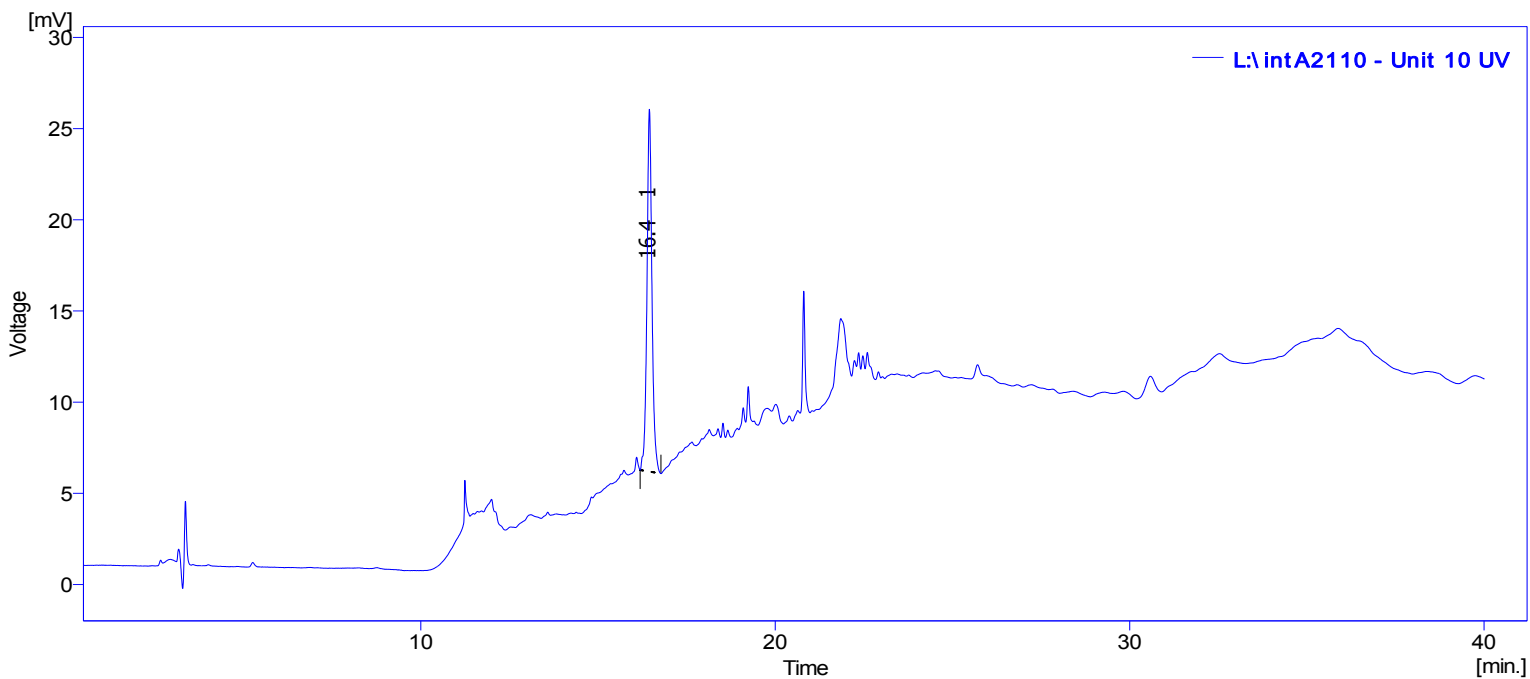
Result Table (Uncal - L:\intA2110 - Unit 10 Radio)

Compound Name	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	W05 [min]	Efficiency [th.pl]	Eff/I [t.p./m]	Resolution [-]	Symmetry/Tailing [-]	Response Factor
1	9.11	73.381	3.67	0.35	0.4	0.27	3450	68992		1.02	
2	12.08	9.632	0.73	0.05	0.1	0.18	14593	291862	7.72	0.84	
3	12.85	10.033	0.62	0.05	0.1	0.17	5969	119379	2.61	0.80	
4	16.79	20713.102	1040.07	99.53	99.5	0.29	0	0	10.11	2.06	
5	18.38	5.736	0.38	0.03	0.0	0.26	30715	614302	3.40	1.35	
Total		20811.884	1045.47	100.00	100.0						

MC-2338
2-Ketoisocaproic acid, [1-14C]-
Lot 642-087-0522-A-20100126-SB

Chromatogram Info:

File Name	: L:\intA2110	File Created	: 5/9/2014 12:44:00 PM
Origin	: Acquired, Acquisition started 1/28/2010 8:37:48 AM	Acquired Date	: 1/28/2010 9:17:47 AM
Project	: Work1	By	: Administrator
Method	: Unit10_40_min_run	By	: Administrator
Description	: UV trace of 14C material alone	Modified	: 5/12/2014 8:50 AM
Created	: 7/30/2007 9:03 AM		
Column	:	Detection	: UV 220nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



Result Table (Uncal - L:\intA2110 - Unit 10 UV)

Compound Name	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	W05 [min]	Efficiency [th.pl]	Eff/I [t.p./m]	Resolution [-]	Symmetry/Tailing [-]	Response Factor
1	16.45	194.922	19.87	100.00	100.0	0.15	48190	963799		1.09	
Total		194.922	19.87	100.00	100.0						

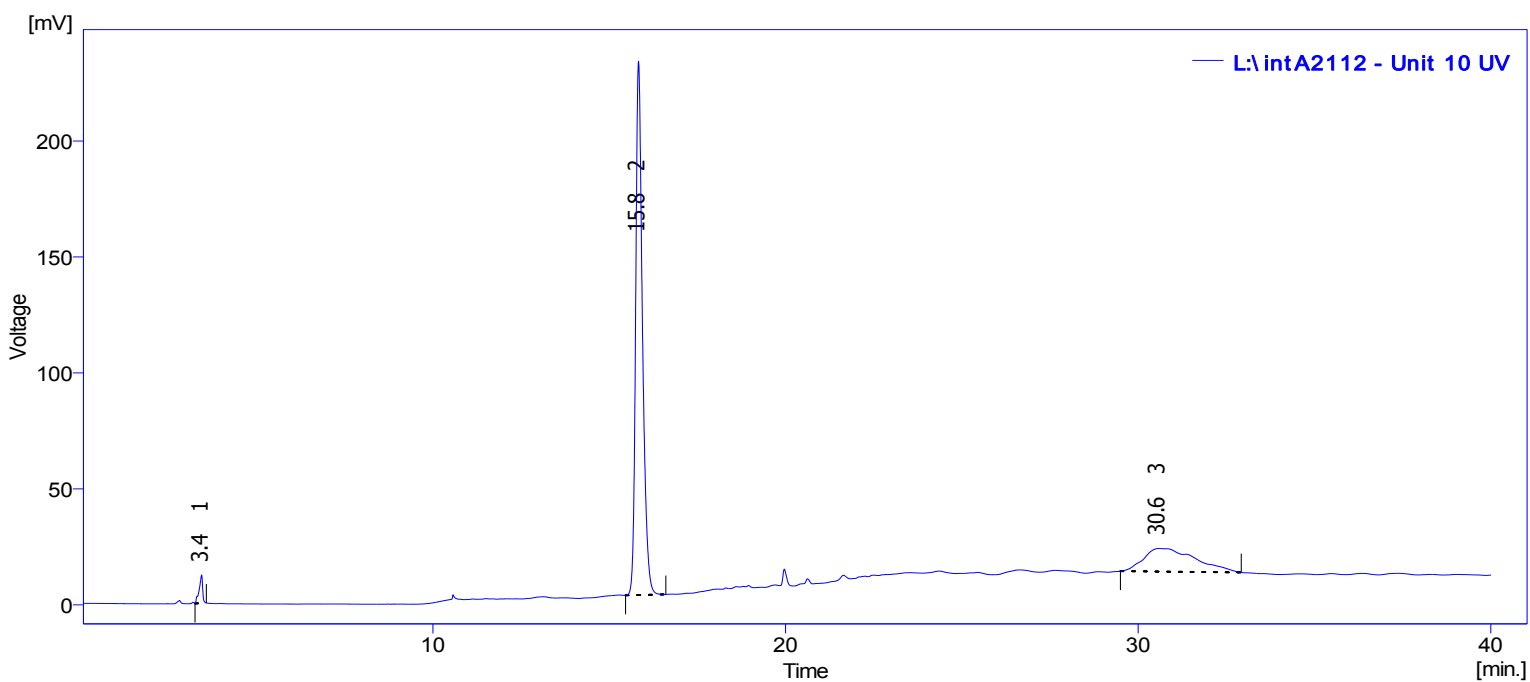
MC-2338
2-Ketoisocaproic acid, [1-14C]-
Lot 642-087-0522-A-20100126-SB

Chromatogram Info:

File Name : L:\intA2112 File Created : 5/9/2014 12:43:59 PM
 Origin : Acquired, Acquisition started 1/28/2010 10:29:52 AM Acquired Date : 1/28/2010 11:09:50 AM
 Project : Work1 By : Administrator

Method : Unit10_40_min_run By : Administrator
 Description : UV trace of standard alone
 Created : 7/30/2007 9:03 AM Modified : 5/9/2014 12:55 PM

Column : Detection : UV 220nm
 Mobile Phase : Temperature :
 Flow Rate : Pressure :
 Note :



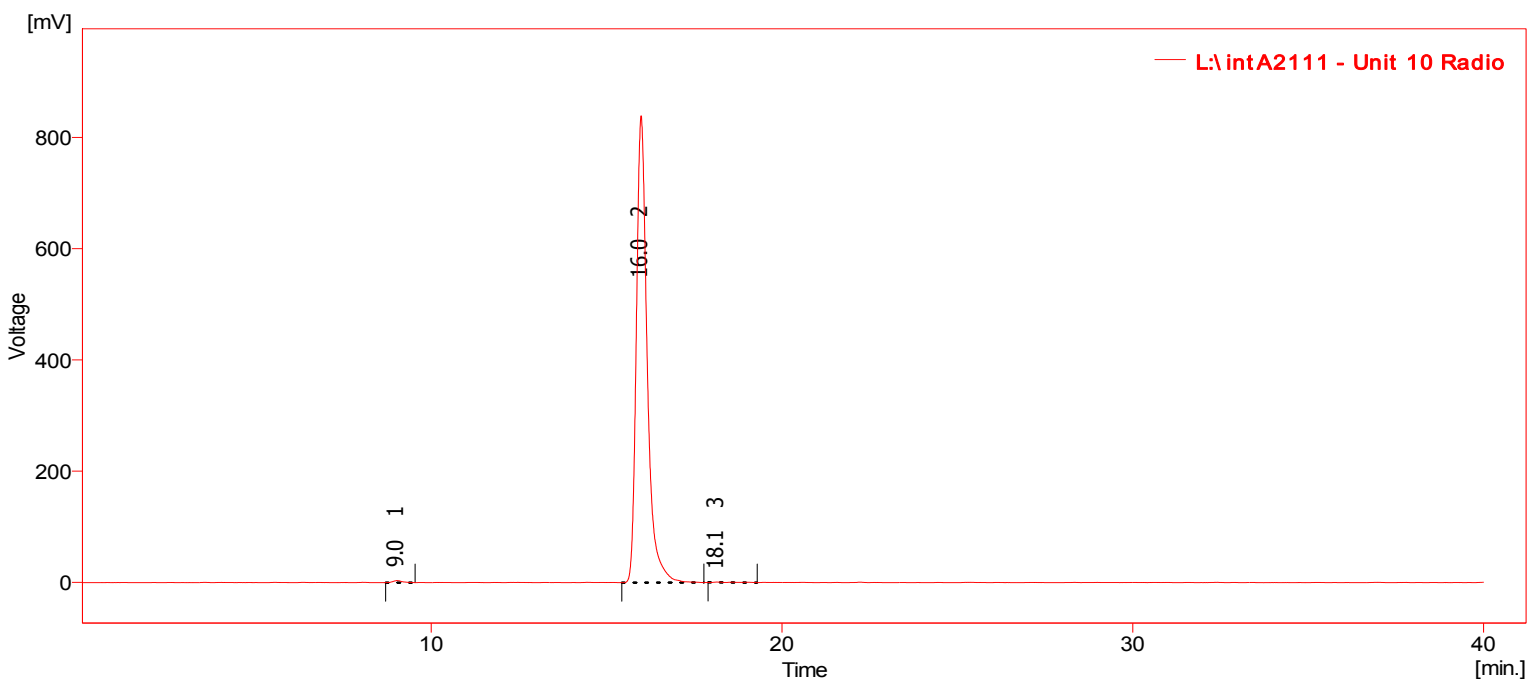
Result Table (Uncal - L:\intA2112 - Unit 10 UV)

	Compound Name	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	W05 [min]	Efficiency [th.pl]	Eff/I [t.p./m]	Resolution [-]	Symmetry/Tailing [-]	Response Factor
1		3.44	82.490	12.19	1.97	4.8	0.10	4139	82776		0.73	
2		15.83	3091.936	230.22	73.68	91.2	0.20	24001	480022	49.28	1.32	
3		30.58	1022.101	9.98	24.36	4.0	1.58	2170	43404	9.79	1.66	
	Total		4196.527	252.38	100.00	100.0						

MC-2338
2-Ketoisocaproic acid, [1-14C]-
Lot 642-087-0522-A-20100126-SB

Chromatogram Info:

File Name	: L:\intA2111	File Created	: 5/9/2014 12:44:00 PM
Origin	: Acquired, Acquisition started 1/28/2010 9:34:15 AM	Acquired Date	: 1/28/2010 10:14:14 AM
Project	: Work1	By	: Administrator
Method	: Unit10_40_min_run	By	: Administrator
Description	: Radiochemical trace of 14C material co-injected with standard		
Created	: 7/30/2007 9:03 AM	Modified	: 5/12/2014 8:57 AM
Column	:	Detection	: Radiochemical
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



Result Table (Uncal - L:\intA2111 - Unit 10 Radio)

	Compound Name	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	W05 [min]	Efficiency [th.pl]	Eff/I [t.p./m]	Resolution [-]	Symmetry/Tailing [-]	Response Factor
1		9.03	68.783	3.88	0.38	0.5	0.27	4389	87772		1.25	
2		15.98	18058.949	839.37	99.43	99.4	0.32	6649	132974	13.99	1.42	
3		18.15	35.053	0.87	0.19	0.1	0.25	2554	51072	4.51	2.76	
		Total	18162.786	844.12	100.00	100.0						

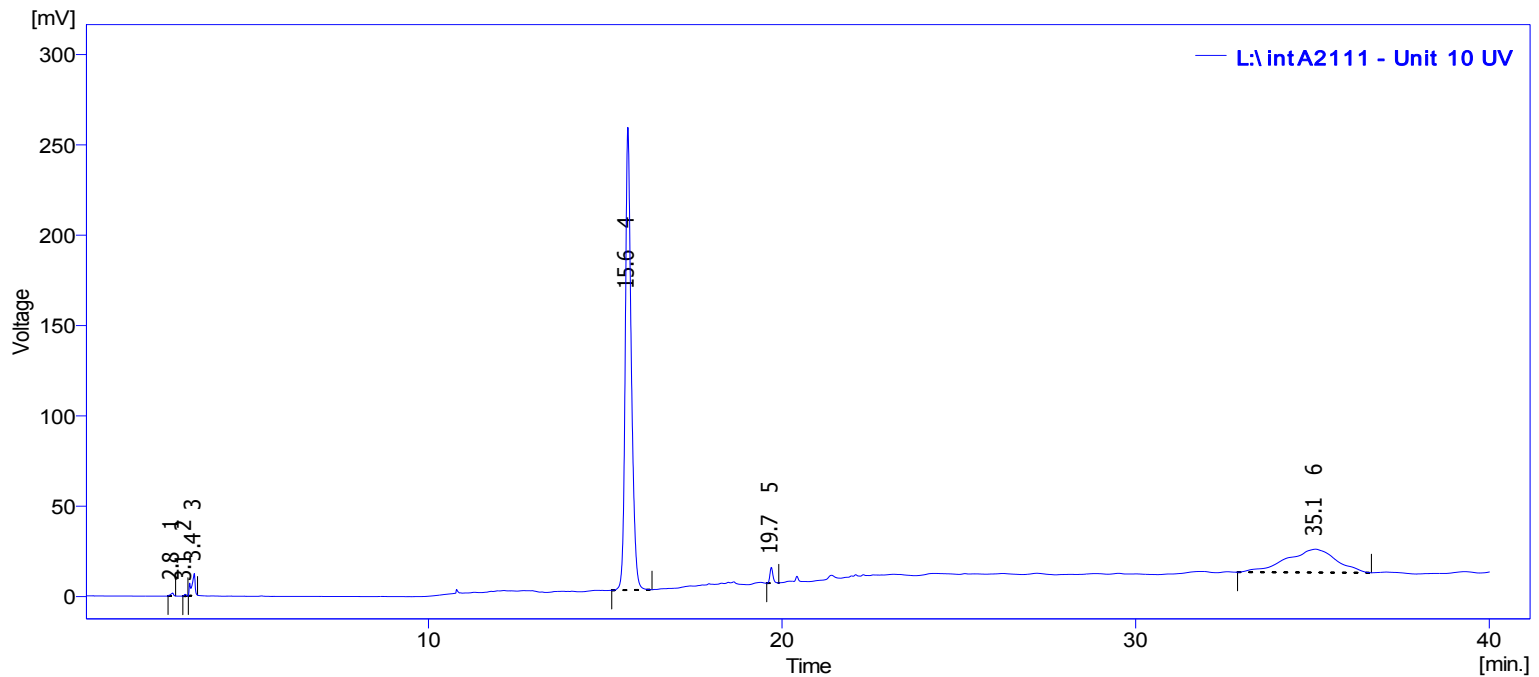
MC-2338
2-Ketoisocaproic acid, [1-14C]-
Lot 642-087-0522-A-20100126-SB

Chromatogram Info:

File Name : L:\intA2111 File Created : 5/9/2014 12:44:00 PM
 Origin : Acquired, Acquisition started 1/28/2010 9:34:15 AM Acquired Date : 1/28/2010 10:14:14 AM
 Project : Work1 By : Administrator

Method : Unit10_40_min_run By : Administrator
 Description : UV trace of 14C material co-injected with standard
 Created : 7/30/2007 9:03 AM Modified : 5/12/2014 8:54 AM

Column : Detection : UV 220nm
 Mobile Phase : Temperature :
 Flow Rate : Pressure :
 Note :



Result Table (Uncal - L:\intA2111 - Unit 10 UV)

Compound Name	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	W05 [min]	Efficiency [th.pl]	Eff/I [t.p./m]	Resolution [-]	Symmetry/Tailing [-]	Response Factor
1	2.77	8.814	1.64	0.20	0.6	0.09	5337	106748		0.76	
2	3.12	4.746	1.05	0.11	0.4	0.08	13282	265647	2.50	1.22	
3	3.38	82.815	12.09	1.86	4.1	0.09	3688	73758	1.84	0.69	
4	15.64	3035.306	256.07	68.19	87.6	0.18	28875	577492	54.25	1.23	
5	19.70	51.113	8.68	1.15	3.0	0.09	221591	4431816	17.73	1.19	
6	35.09	1268.159	12.91	28.49	4.4	1.58	2615	52293	10.83	0.84	
Total		4450.954	292.44	100.00	100.0						

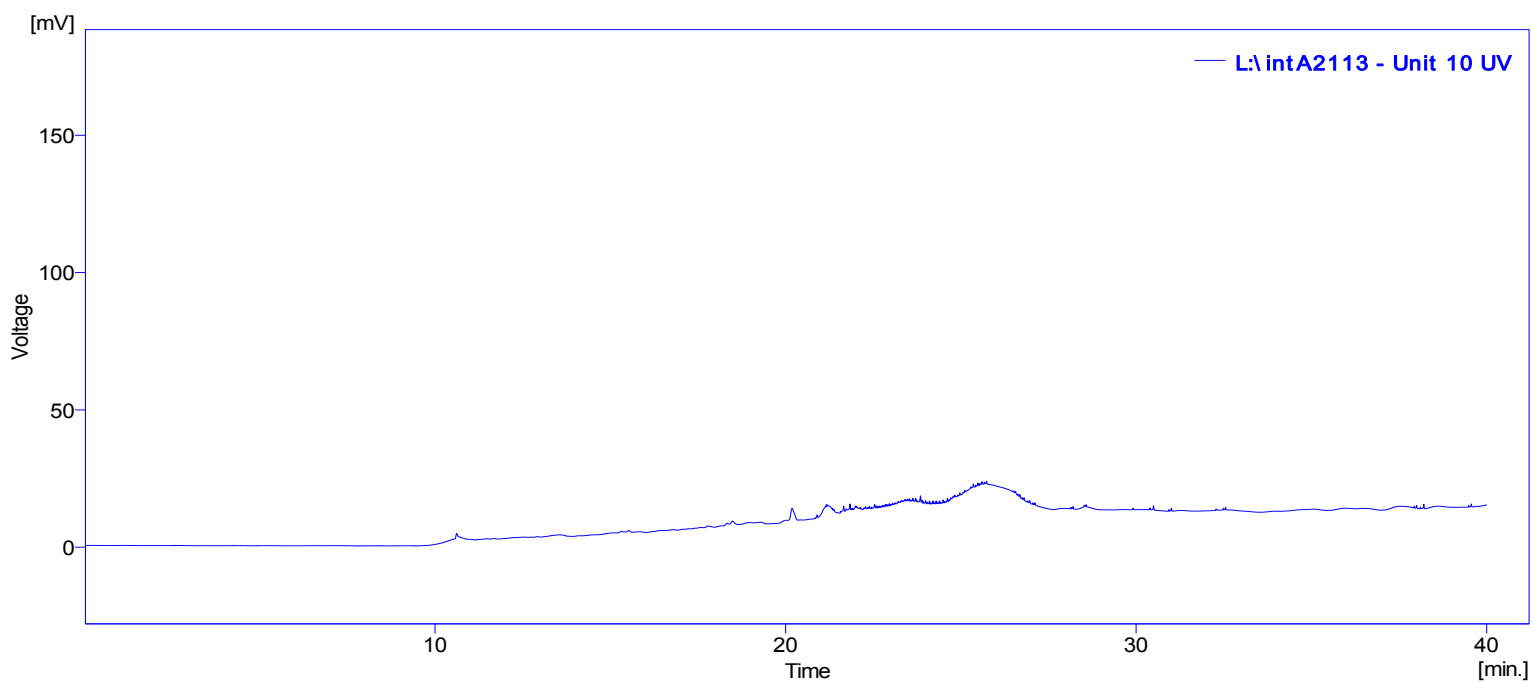
MC-2338
2-Ketoisocaproic acid, [1-14C]-
Lot 642-087-0522-A-20100126-SB

Chromatogram Info:

File Name : L:\intA2113 File Created : 5/9/2014 12:43:59 PM
 Origin : Acquired, Acquisition started 1/28/2010 11:52:35 AM Acquired Date : 1/28/2010 12:32:34 PM
 Project : Work1 By : Administrator

Method : Unit10_40_min_run By : Administrator
 Description : UV trace of blank injection
 Created : 7/30/2007 9:03 AM Modified : 5/12/2014 8:50 AM

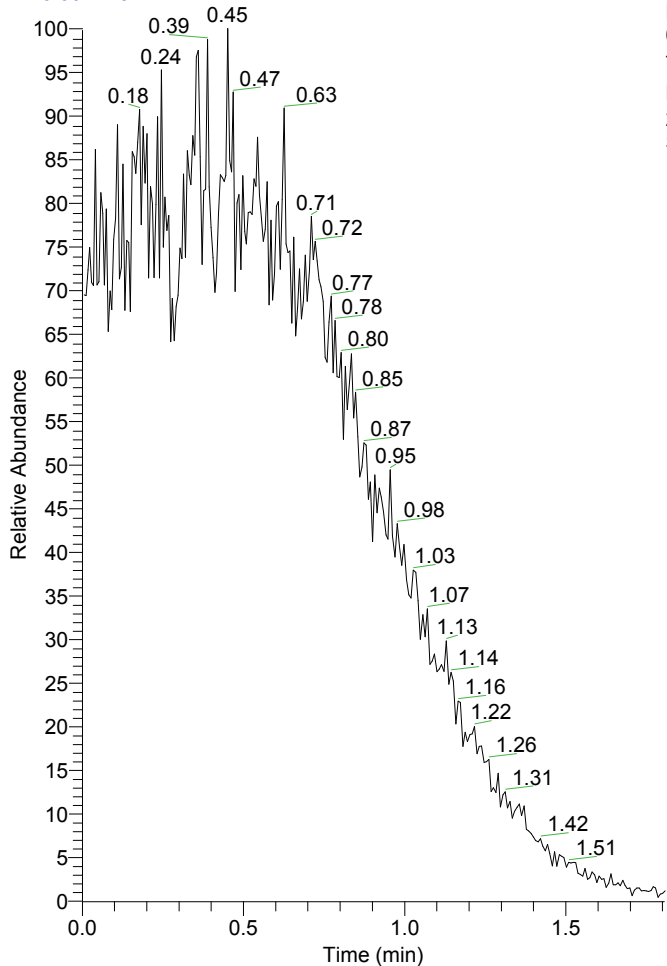
Column : Detection : UV 220nm
 Mobile Phase : Temperature :
 Flow Rate : Pressure :
 Note :



Result Table (Uncal - L:\intA2113 - Unit 10 UV)

Compound Name	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	W05 [min]	Efficiency [th.pl]	Eff/l [t.p./m]	Resolution [-]	Symmetry/Tailing [-]	Response Factor
No peak to report											

RT: 0.00 - 1.81



NL:
6.42E6
TIC MS
MC2338-
20100126-
SB-MS

MC2338-20100126-SB-MS#1-278 RT:
T: - c NSI Full ms [100.00-150.00]
m/z= 127.20-138.00

m/z	Intensity	Relative
127.27	25080.1	1.25
128.23	4901.5	0.24
129.36	390737.3	19.42
130.45	30690.3	1.53
131.23	2011646.9	100.00
132.24	78962.7	3.93
133.22	16784.7	0.83
134.02	1251.1	0.06
135.05	4472.7	0.22
135.60	15.4	0.00
136.23	2021.0	0.10
137.16	8481.1	0.42
137.67	16.7	0.00

MC2338-20100126-SB-MS #1-278 RT: 0.01-1.81 AV: 278 NL: 2.01E6
T: - c NSI Full ms [100.00-150.00]

