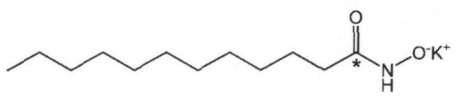
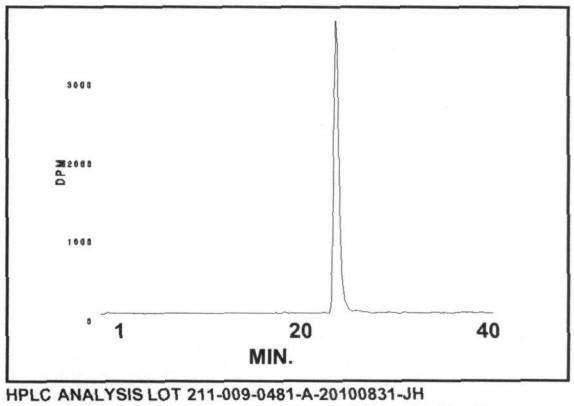
Product Data Sheet

MC-2356

Potassium lauryl hydroxamate, [1-^{14}C]-



M.W. ^{12}C 253.42; ^{14}C 254.96 @ 48.1 mCi/mmol



HPLC ANALYSIS LOT 211-009-0481-A-20100831-JH
File Name: intm3074 Date and Time: 9/16/2010 9:44:19 AM
Unit 20 Radio

Peak #	Area %	Time	Area
1	99.04	24.06670	14110.03373
2	0.52	26.15330	73.46907
3	0.44	29.48330	62.74002
Totals	100.00		14246.24282

Lot #: 211-009-0481-A-20100831-JH

Specific Activity: 48.1 mCi/mmol

Packaged as: Solid

Date of Analysis: September 16, 2010

Radiochemical Purity: 99.0%

Storage Recommendation: Store at -20°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.

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MC-2356

Potassium lauryl hydroxamate, [1-^{14}C]-

Lot 211-009-0481-A-20100831-JH

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

Concentrations and volumes:

Standard solution concentration was 10.0 mg/ml.

Potassium lauryl hydroxamate, [1-^{14}C]- concentration was 50.0 µCi/ml.

Volume of standard alone injection was 15.0 µl.

Volume of **Potassium lauryl hydroxamate, [1-^{14}C]-** alone injection was 1.0 µl.

Co-injection solution consisted of 1.0 µl **Potassium lauryl hydroxamate, [1-^{14}C]-** + 15.0 µl standard.

Volume of co-injection was 16.0 µl.

Volume of blank injection was 1.0 µl.

B) Mass spectrometry – positive mode

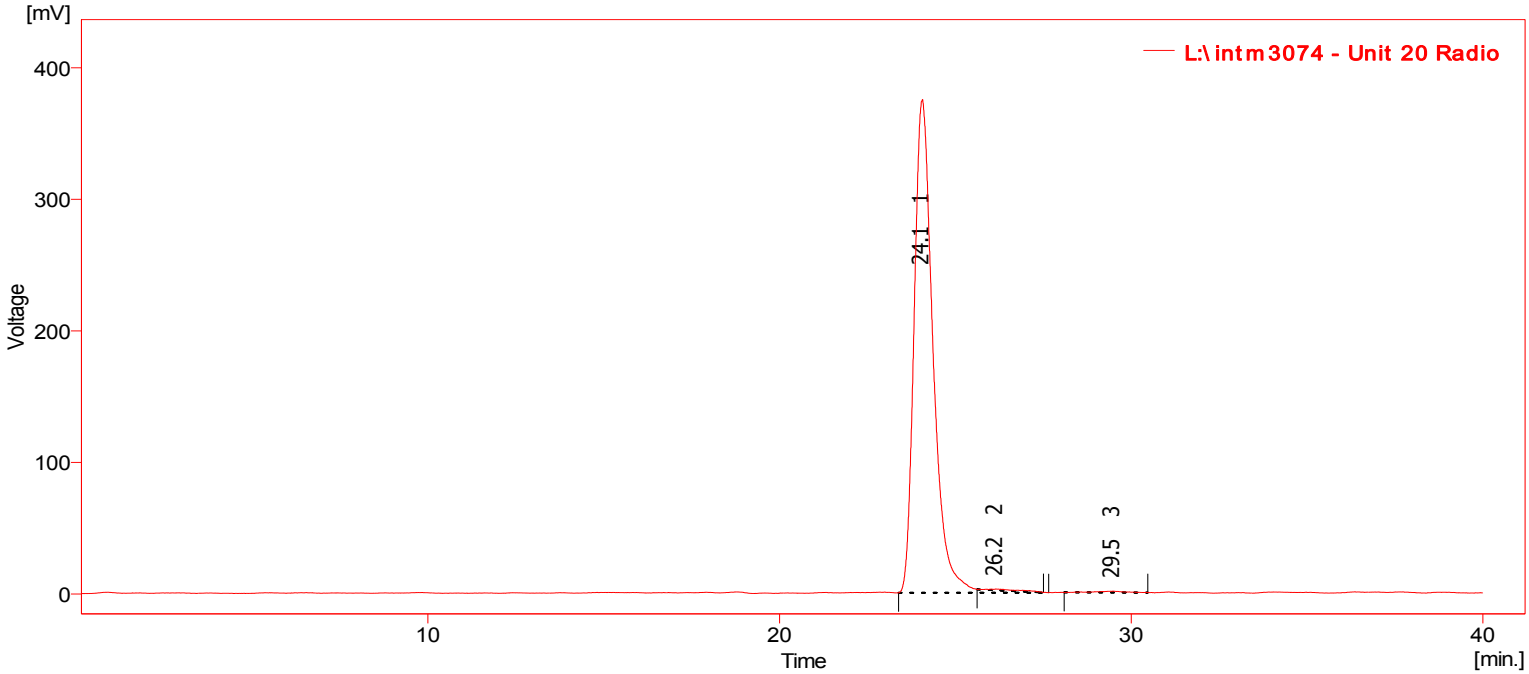
C) NMR

MC-2356
Potassium lauryl hydroxamate, [1-14C]-
Lot 211-009-0481-A-20100831-JH

Chromatogram Info:

File Name	: L:\intm3074	File Created	: 5/21/2014 9:02:31 AM
Origin	: Acquired, Acquisition started 9/16/2010 9:04:20 AM	Acquired Date	: 9/16/2010 9:44:19 AM
Project	: Work1	By	: Administrator

Method	: Unit_20_40_min_run	By	: Administrator
Description	: Radiochemical trace of 14C material alone		
Created	: 4/12/2008 10:42 AM	Modified	: 5/21/2014 9:16 AM
Column	:	Detection	: Radiochemical
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



Result Table (Uncal - L:\intm3074 - Unit 20 Radio)

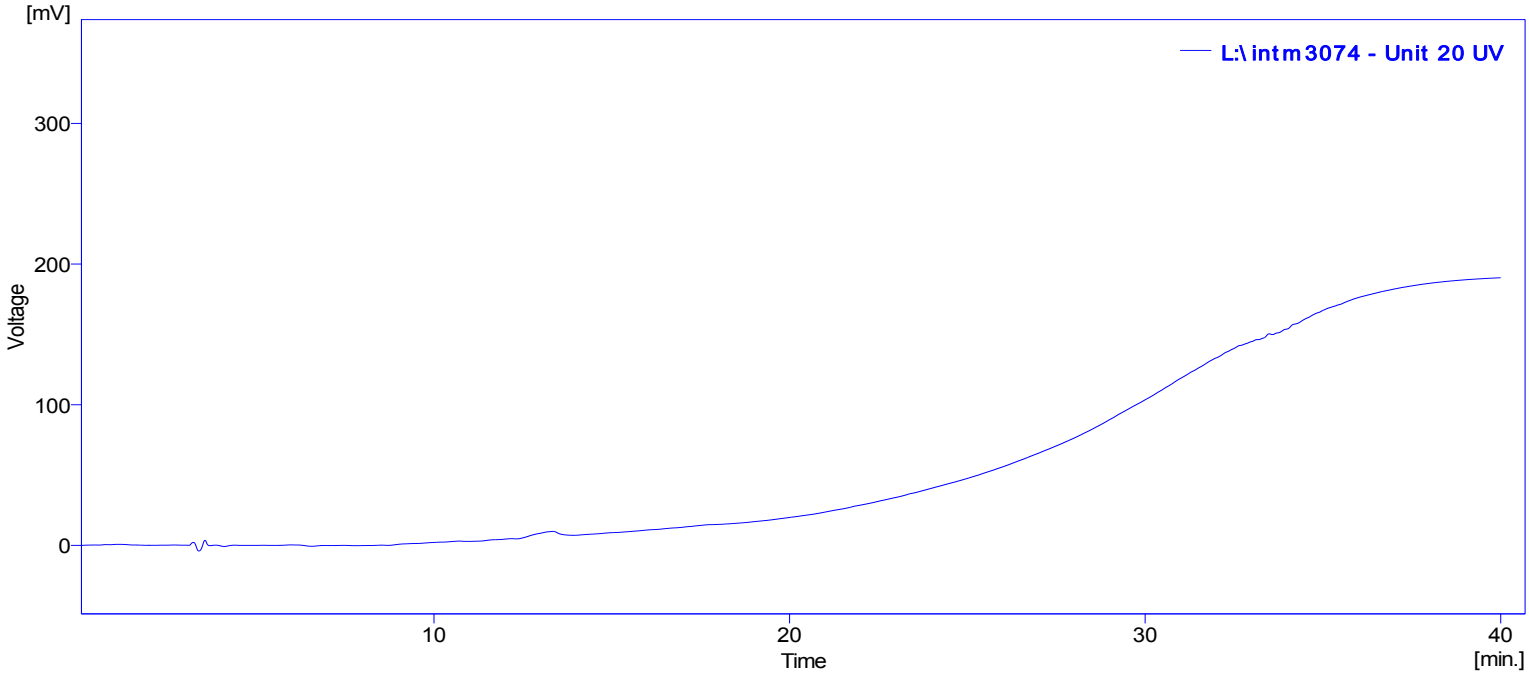
	Compound Name	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	W05 [min]	Efficiency [th.pl]	Eff/l [t.p./m]	Resolution [-]	Symmetry/ Tailing [-]	Response Factor
1		24.07	14110.034	374.92	99.04	99.4	0.55	10480	209603		3.12	
2		26.15	73.469	1.01	0.52	0.3	0.76	6503	130066	1.87	1.77	
3		29.48	62.740	1.08	0.44	0.3	0.82	7221	144412	2.49	0.89	
		Total	14246.243	377.01	100.00	100.0						

MC-2356
Potassium lauryl hydroxamate, [1-14C]-
Lot 211-009-0481-A-20100831-JH

Chromatogram Info:

File Name	: L:\intm3074	File Created	: 5/21/2014 9:02:31 AM
Origin	: Acquired, Acquisition started 9/16/2010 9:04:20 AM	Acquired Date	: 9/16/2010 9:44:19 AM
Project	: Work1	By	: Administrator

Method	: Unit_20_40_min_run	By	: Administrator
Description	: UV trace of 14C material alone		
Created	: 4/12/2008 10:42 AM	Modified	: 5/21/2014 9:07 AM
Column	:	Detection	: UV 240nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



Result Table (Uncal - L:\intm3074 - Unit 20 UV)

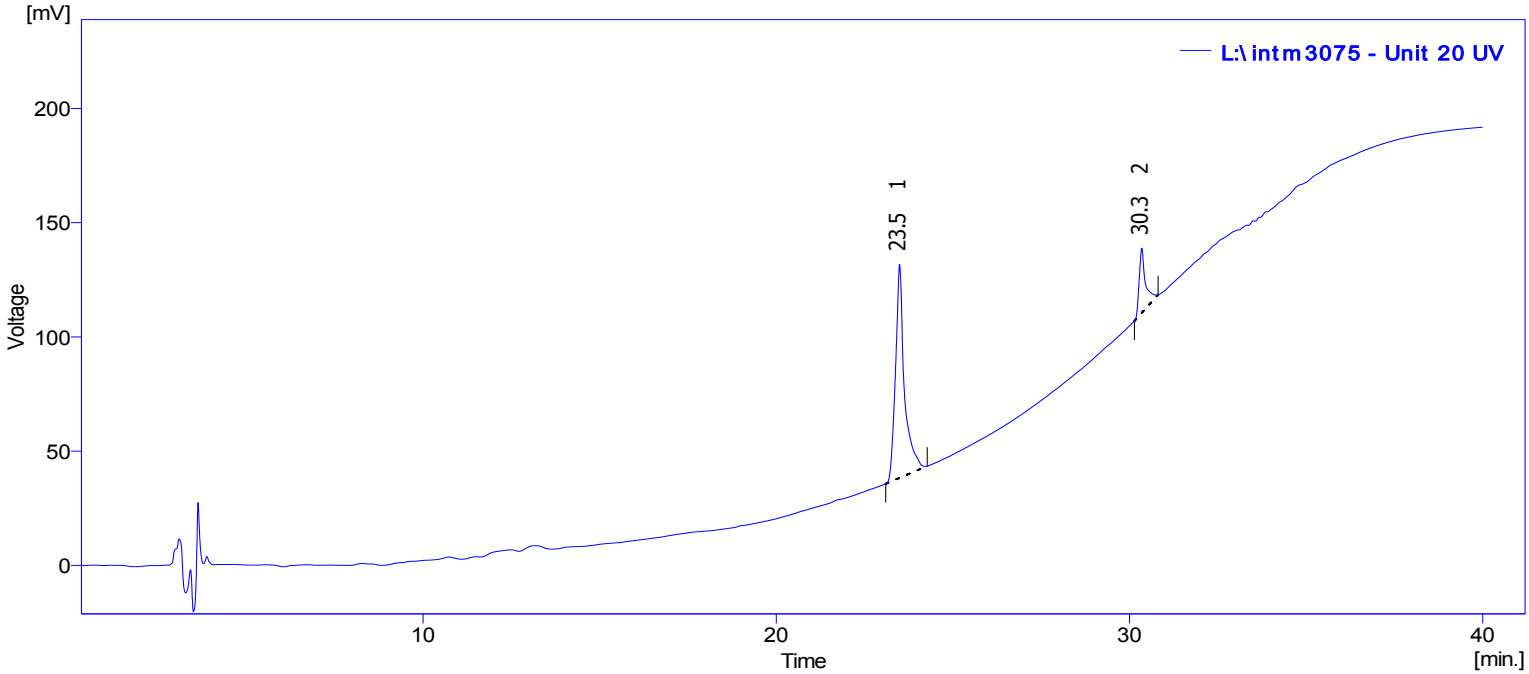
Compound Name	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	W05 [min]	Efficiency [th.pl]	Eff/l [t.p./m]	Resolution [-]	Symmetry/ Tailing [-]	Response Factor
No peak to report											

MC-2356
Potassium lauryl hydroxamate, [1-14C]-
Lot 211-009-0481-A-20100831-JH

Chromatogram Info:

File Name	: L:\intm3075	File Created	: 5/21/2014 9:02:31 AM
Origin	: Acquired, Acquisition started 9/16/2010 10:00:48 AM	Acquired Date	: 9/16/2010 10:40:48 AM
Project	: Work1	By	: Administrator

Method	: Unit_20_40_min_run	By	: Administrator
Description	: UV trace of standard material alone		
Created	: 4/12/2008 10:42 AM	Modified	: 5/21/2014 9:17 AM
Column	:	Detection	: UV 240nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



Result Table (Uncal - L:\intm3075 - Unit 20 UV)

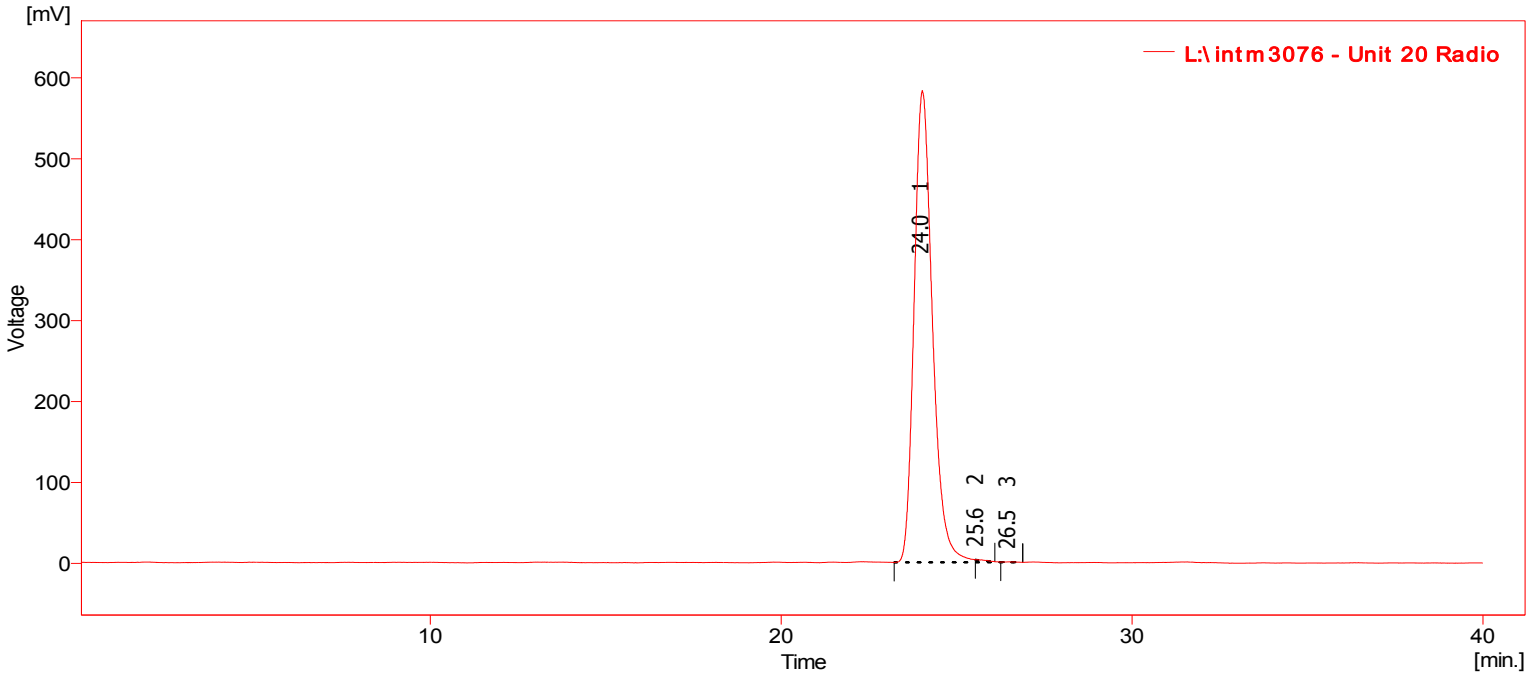
	Compound Name	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	W05 [min]	Efficiency [th.pl]	Eff/l [t.p./m]	Resolution [-]	Symmetry/ Tailing [-]	Response Factor
1		23.49	1640.793	93.42	82.54	76.7	0.22	61287	1225741		1.48	
2		30.35	347.090	28.33	17.46	23.3	0.17	183668	3673366	20.75	1.73	
		Total	1987.883	121.75	100.00	100.0						

MC-2356
Potassium lauryl hydroxamate, [1-14C]-
Lot 211-009-0481-A-20100831-JH

Chromatogram Info:

File Name	: L:\intm3076	File Created	: 5/21/2014 9:02:31 AM
Origin	: Acquired, Acquisition started 9/16/2010 11:37:07 AM	Acquired Date	: 9/16/2010 12:17:06 PM
Project	: Work1	By	: Administrator

Method	: Unit_20_40_min_run	By	: Administrator
Description	: Radiochemical trace of 14C material co-injected with standard		
Created	: 4/12/2008 10:42 AM	Modified	: 5/21/2014 9:18 AM
Column	:	Detection	: Radiochemical
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



Result Table (Uncal - L:\intm3076 - Unit 20 Radio)

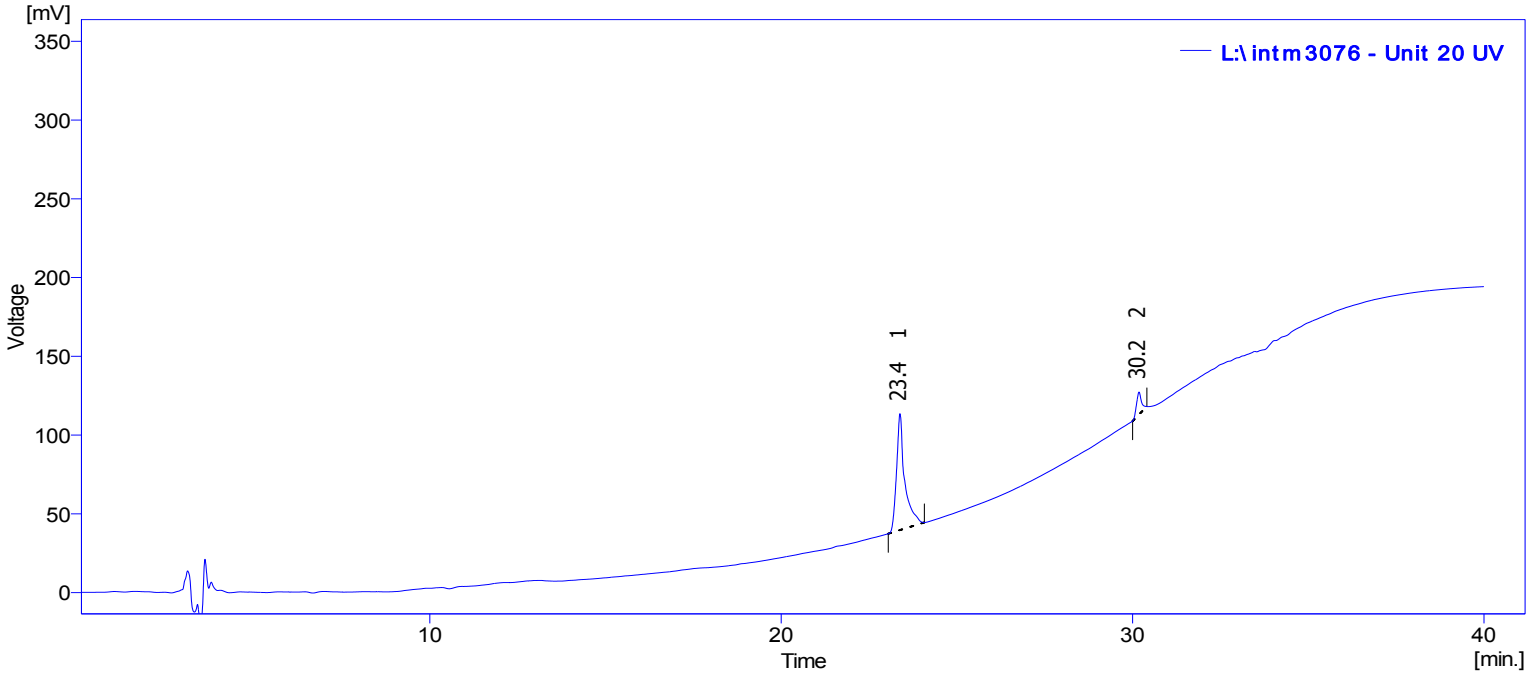
	Compound Name	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	W05 [min]	Efficiency [th.pl]	Eff/l [t.p./m]	Resolution [-]	Symmetry/ Tailing [-]	Response Factor
1		24.02	21221.939	583.10	99.90	99.9	0.55	10569	211388		2.28	
2		25.58	12.712	0.36	0.06	0.1	0.07	673899	13477980	2.94	7.45	
3		26.49	9.200	0.44	0.04	0.1	0.28	50788	1015757	3.08	1.35	
		Total	21243.851	583.91	100.00	100.0						

MC-2356
Potassium lauryl hydroxamate, [1-14C]-
Lot 211-009-0481-A-20100831-JH

Chromatogram Info:

File Name	: L:\intm3076	File Created	: 5/21/2014 9:02:31 AM
Origin	: Acquired, Acquisition started 9/16/2010 11:37:07 AM	Acquired Date	: 9/16/2010 12:17:06 PM
Project	: Work1	By	: Administrator

Method	: Unit_20_40_min_run	By	: Administrator
Description	: UV trace of 14C material co-injected with standard		
Created	: 4/12/2008 10:42 AM	Modified	: 5/21/2014 9:15 AM
Column	:	Detection	: UV 240nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



Result Table (Uncal - L:\intm3076 - Unit 20 UV)

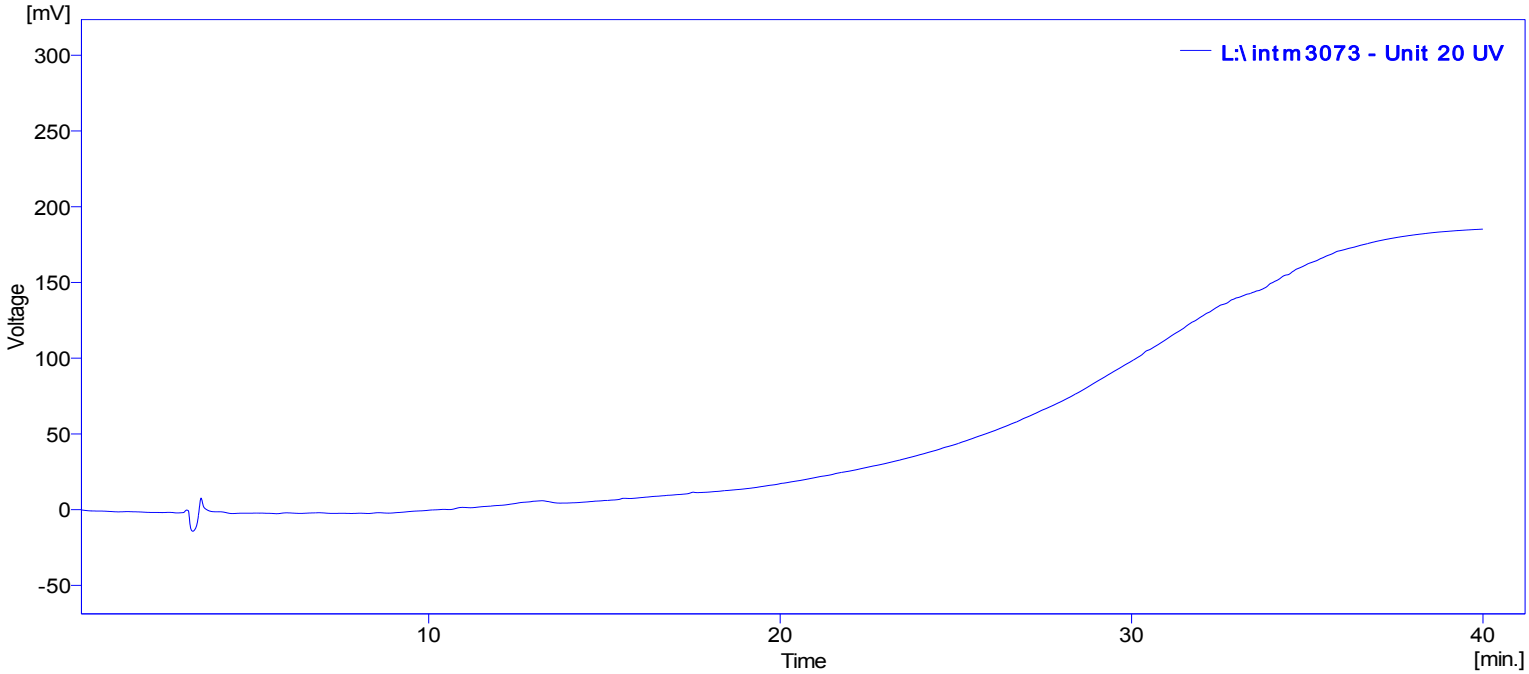
	Compound Name	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	W05 [min]	Efficiency [th.pl]	Eff/l [t.p./m]	Resolution [-]	Symmetry/ Tailing [-]	Response Factor
1		23.38	1208.090	73.94	89.84	83.8	0.20	78296	1565912		1.65	
2		30.18	136.695	14.28	10.16	16.2	0.16	205632	4112642	22.72	1.17	
		Total	1344.785	88.23	100.00	100.0						

MC-2356
Potassium lauryl hydroxamate, [1-14C]-
Lot 211-009-0481-A-20100831-JH

Chromatogram Info:

File Name	: L:\intm3073	File Created	: 5/21/2014 9:02:32 AM
Origin	: Acquired, Acquisition started 9/16/2010 8:14:58 AM	Acquired Date	: 9/16/2010 8:54:57 AM
Project	: Work1	By	: Administrator

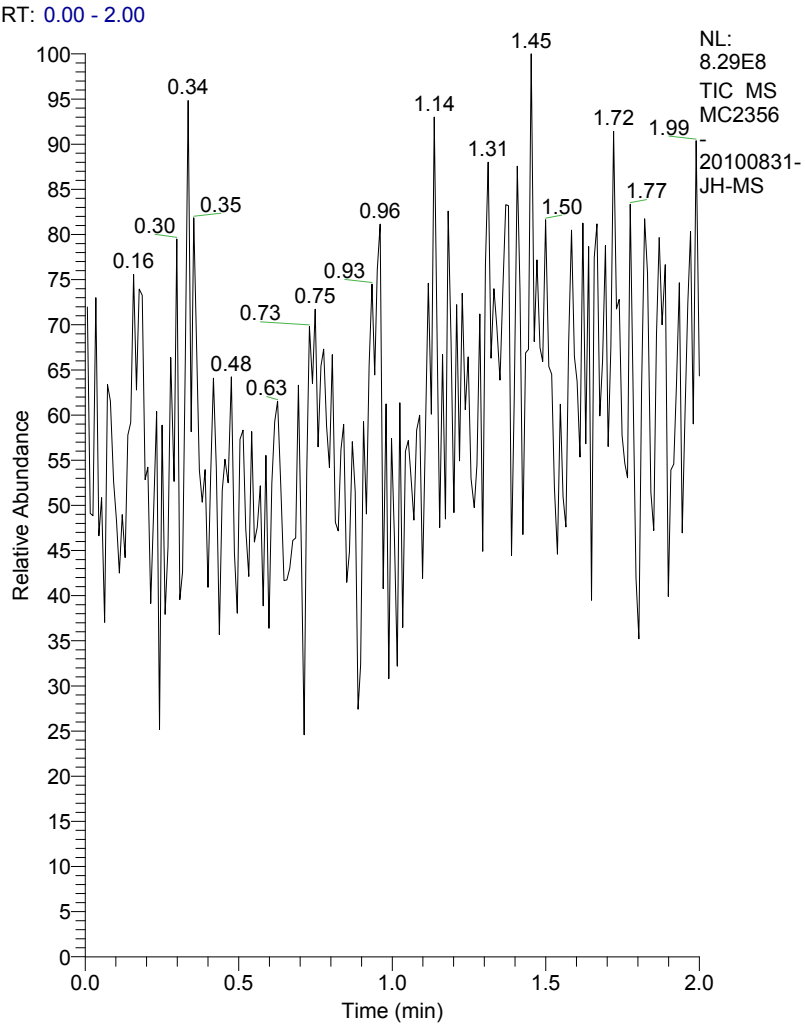
Method	: Unit_20_40_min_run	By	: Administrator
Description	: UV trace of blank injection		
Created	: 4/12/2008 10:42 AM	Modified	: 5/21/2014 9:07 AM
Column	:	Detection	: UV 240nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



Result Table (Uncal - L:\intm3073 - Unit 20 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											

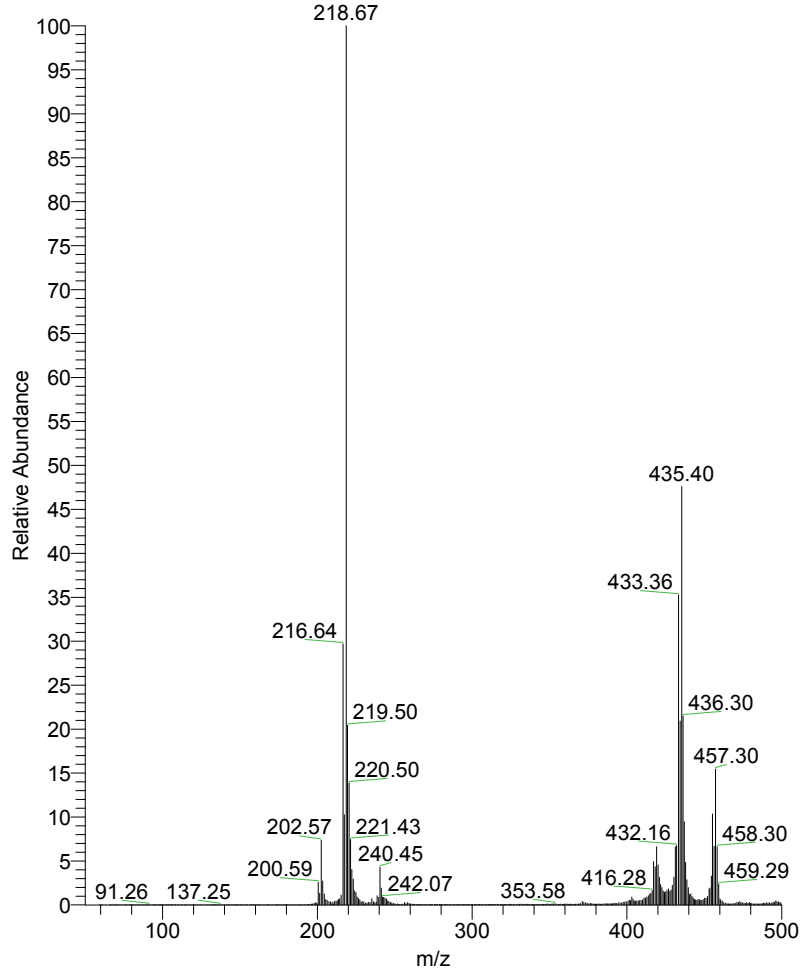
MC2356-20100831-JH-MS -20100831-JH-MS



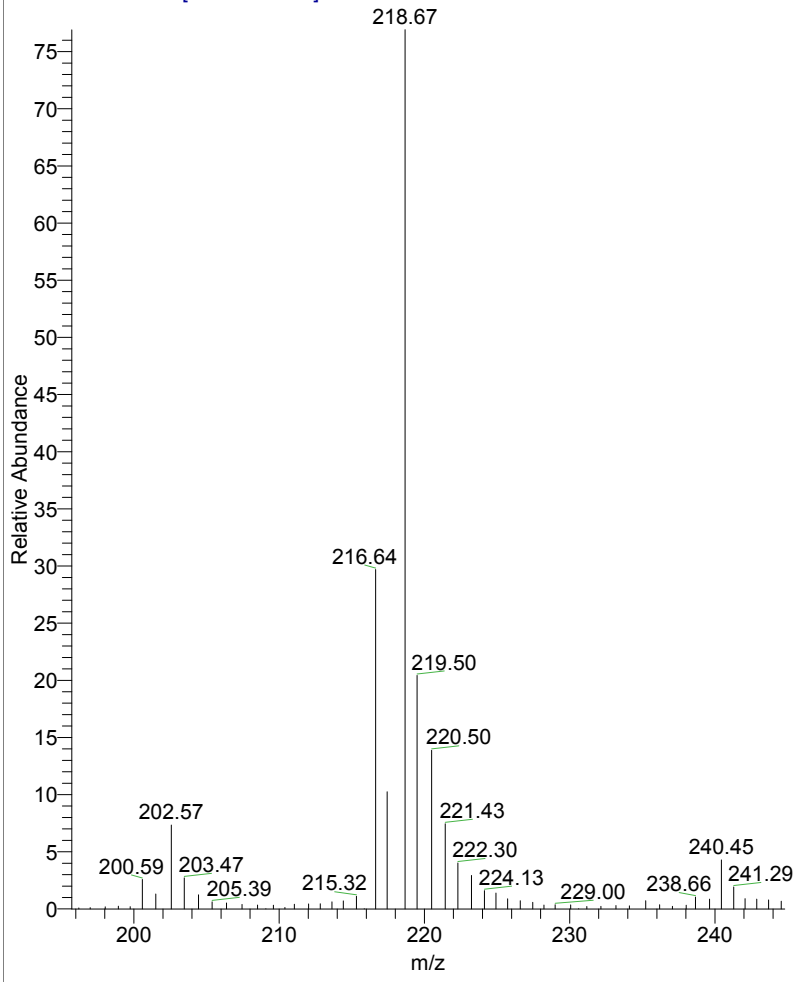
MC2356-20100831-JH-MS#1-215 RT:
T: + c NSI Full ms [50.00-500.00]
m/z= 195.72-244.80

m/z	Intensity	Relative
200.59	2370732.4	2.57
201.51	1195096.4	1.30
202.57	6752039.5	7.32
203.47	2491908.1	2.70
204.45	1133135.2	1.23
215.32	1011525.8	1.10
216.64	27372781.5	29.68
217.44	9439300.2	10.23
218.67	92228466.2	100.00
219.50	18830409.2	20.42
220.50	12787197.2	13.86
221.43	6855496.3	7.43
222.30	3696823.3	4.01
223.24	2693287.5	2.92
224.13	1469865.5	1.59
224.92	1277527.8	1.39
238.66	942456.7	1.02
240.45	3949553.5	4.28
241.29	1760619.1	1.91
242.07	819995.5	0.89

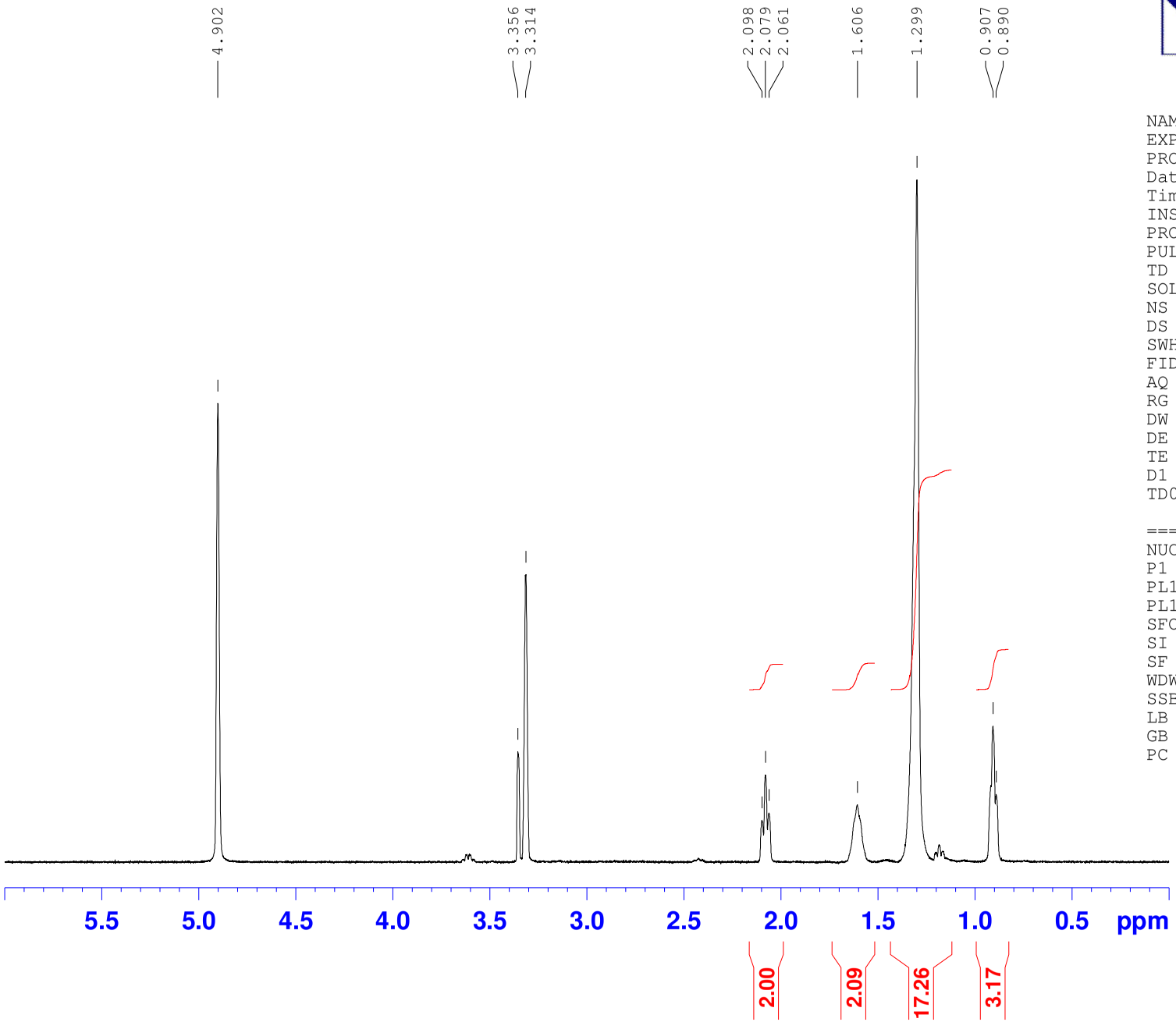
MC2356-20100831-JH-MS #1-215 RT: 0.01-2.00 AV: 215 NL: 9.22E7
T: + c NSI Full ms [50.00-500.00]



MC2356-20100831-JH-MS #1-215 RT: 0.01-2.00 AV: 215 NL: 9.22E7
T: + c NSI Full ms [50.00-500.00]



MC2356
Lauryl hydroxamate, [1-14C]- 1H NMR in MeOD
Lot# 211-009-0481-A-20100831-JH



NAME	MC2356
EXPNO	1
PROCNO	1
Date_	20100916
Time	11.49
INSTRUM	spect
PROBHD	5 mm PABBO BB-
PULPROG	zg30
TD	65536
SOLVENT	MeOD
NS	128
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	294.3 K
D1	1.00000000 sec
TD0	1
======== CHANNEL f1 ========	
NUC1	1H
P1	14.50 usec
PL1	-0.70 dB
PL1W	10.03411102 W
SFO1	400.1324710 MHz
SI	32768
SF	400.1300062 MHz
WDW	no
SSB	0
LB	0.00 Hz
GB	0
PC	1.00