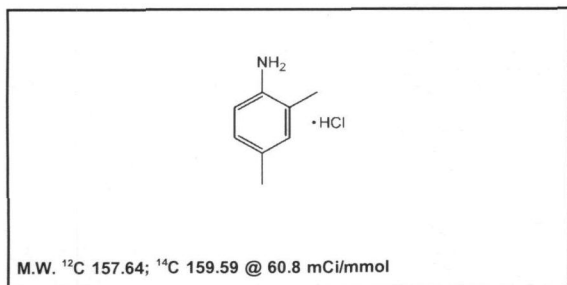




Product Data Sheet

MC-2329

2,4-Dimethylaniline, hydrochloride, [ring-¹⁴C(U)]-



Lot #: 645-179-0608-A-20091023-JZ

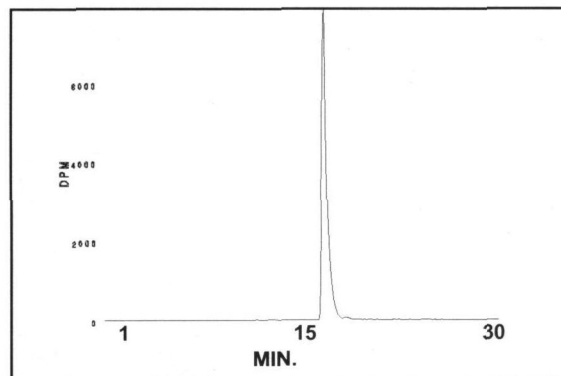
Specific Activity: 60.8 mCi/mmol

Concentration: 0.1 mCi/ml; 262.48 µg/ml

Packaged in: Ethanol solution

Date of Analysis: October 29, 2009

Radiochemical Purity: 99.2%



HPLC ANALYSIS LOT 645-179-0608-A-20091023-JZ
File Name: intk1268 Date and Time: 10/29/2009 1:56:46 P
Unit 20 Radio

Peak #	Area %	Time	Area
1	0.09	12.90670	20.67838
2	99.24	16.74670	21814.89411
3	0.50	18.53000	109.32474
4	0.17	24.74670	37.14432
Totals	100.00		21982.04155

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.

MC-2329

2,4-Dimethylaniline, hydrochloride, [ring-¹⁴C(U)]-

Lot 645-179-0608-A-20091023-JZ

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.

2,4-Dimethylaniline, hydrochloride, [ring-¹⁴C(U)]- concentration was 100 µCi/mL.

Volume of standard alone injection was 2.0 µL

Volume of **2,4-Dimethylaniline, hydrochloride, [ring-¹⁴C(U)]-** alone injection was 2.0 µL.

Co-injection solution consisted of 1.0 µL

2,4-Dimethylaniline, hydrochloride, [ring-¹⁴C(U)]- + 1.0 µL standard.

Volume of co-injection was 2.0 µL.

Volume of blank injection was 2.0 µL.

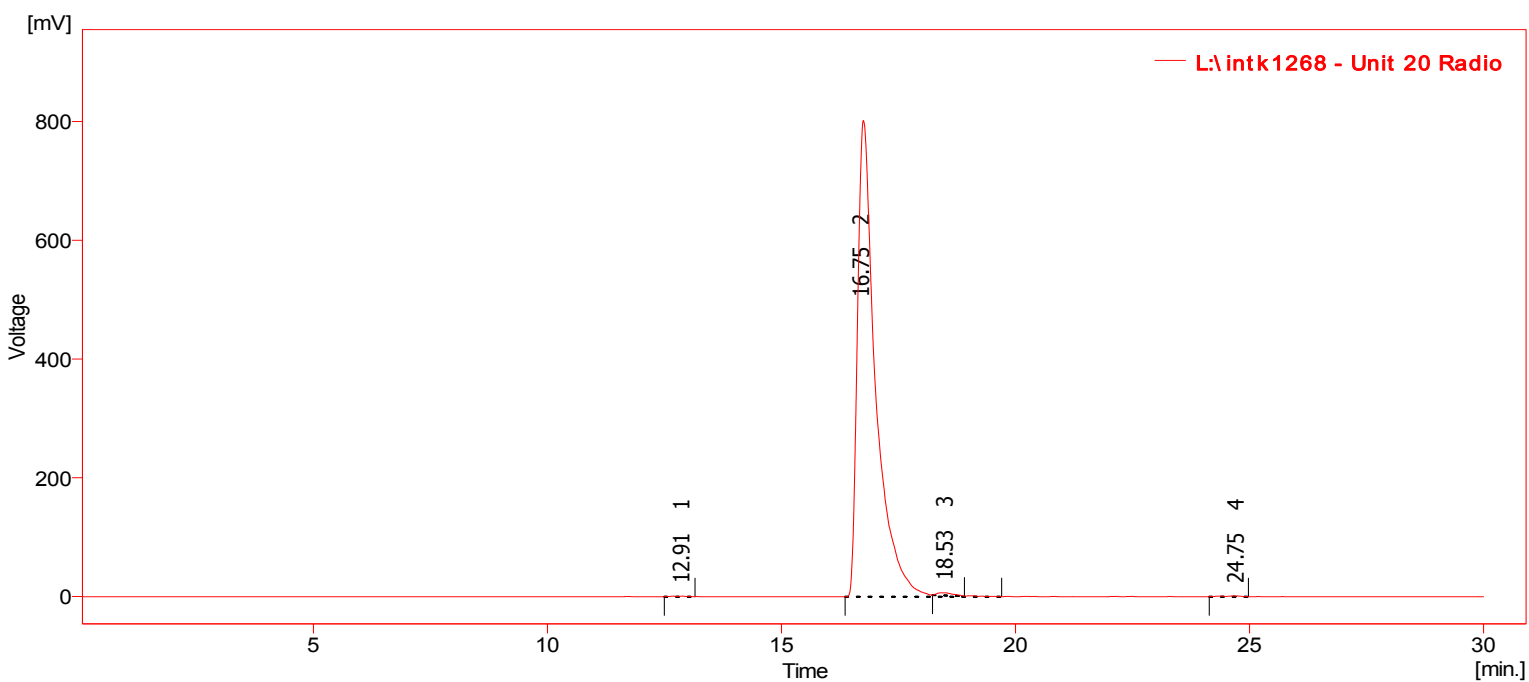
B) Mass spectrometry - Positive mode

C) NMR

MC-2329
2,4-Dimethylaniline, hydrochloride, [ring-14C(U)]-
Lot 645-179-0608-A-20091023-JZ

Chromatogram Info:

File Name	: L:\intk1268	File Created	: 5/6/2014 9:17:29 AM
Origin	: Acquired, Acquisition started 10/29/2009 1:26:48 PM	Acquired Date	: 10/29/2009 1:56:46 PM
Project	: Work1	By	: Administrator
Method	: unit20_30_min_run_	By	: Administrator
Description	: Radiochemical trace of 14C material alone	Modified	: 5/6/2014 9:19 AM
Created	: 3/26/2008 9:00 AM		
Column	:	Detection	: Radiochemical
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



Result Table (Uncal - L:\intk1268 - Unit 20 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		12.91	20.678	0.97	0.09	0.1	0.44	4840	96798		0.75	
2		16.75	21814.894	801.96	99.24	99.1	0.36	11769	235389	5.66	4.82	
3		18.53	109.325	4.71	0.50	0.6	0.35	15237	304734	2.94	1.09	
4		24.75	37.144	1.45	0.17	0.2	0.29	41285	825693	11.46	0.64	
	Total		21982.042	809.09	100.00	100.0						

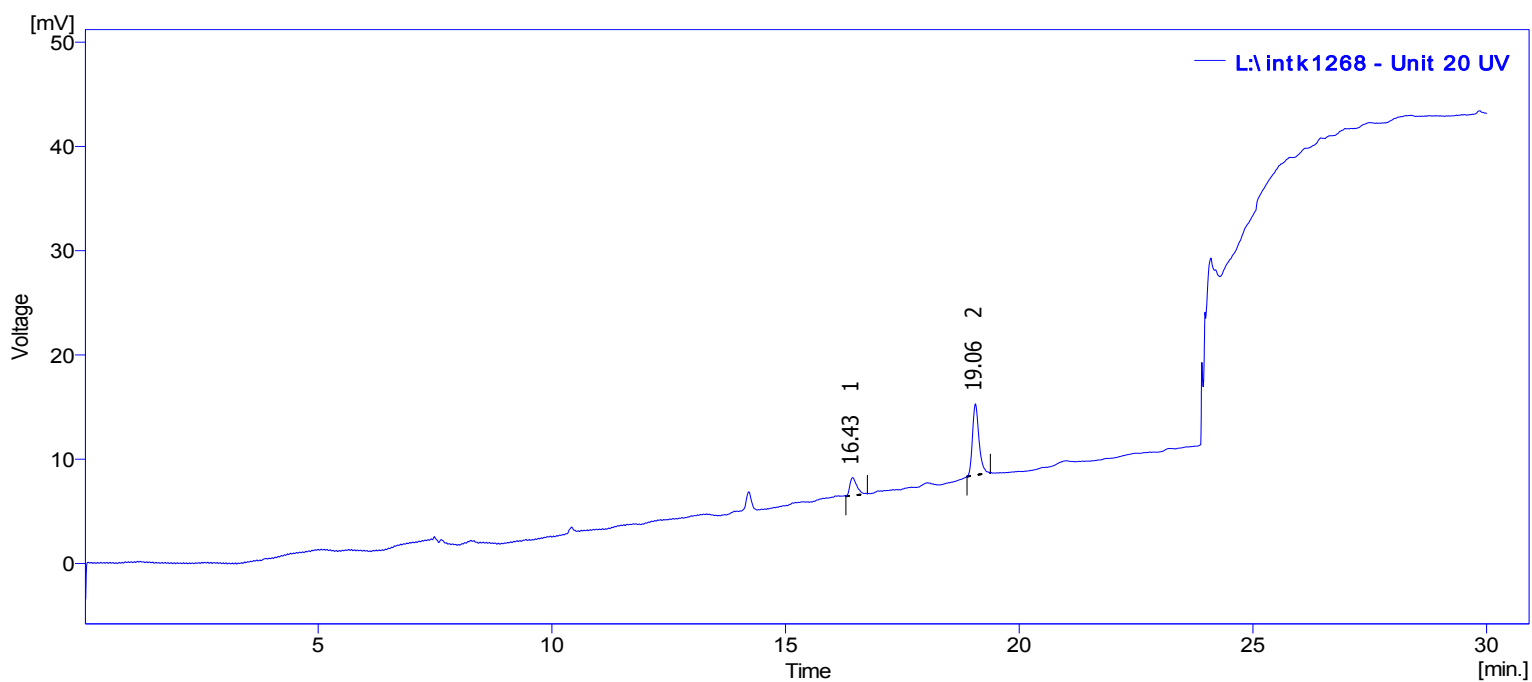
MC-2329
2,4-Dimethylaniline, hydrochloride, [ring-14C(U)]-
Lot 645-179-0608-A-20091023-JZ

Chromatogram Info:

File Name : L:\intk1268 File Created : 5/6/2014 9:12:54 AM
 Origin : Acquired, Acquisition started 10/29/2009 1:26:48 PM Acquired Date : 10/29/2009 1:56:46 PM
 Project : Work1 By : Administrator

Method : unit20_30_min_run_ By : Administrator
 Description : UV trace of 14C material alone
 Created : 3/26/2008 9:00 AM Modified : 5/6/2014 9:13 AM

Column : Detection : UV 254nm
 Mobile Phase : Temperature :
 Flow Rate : Pressure :
 Note :



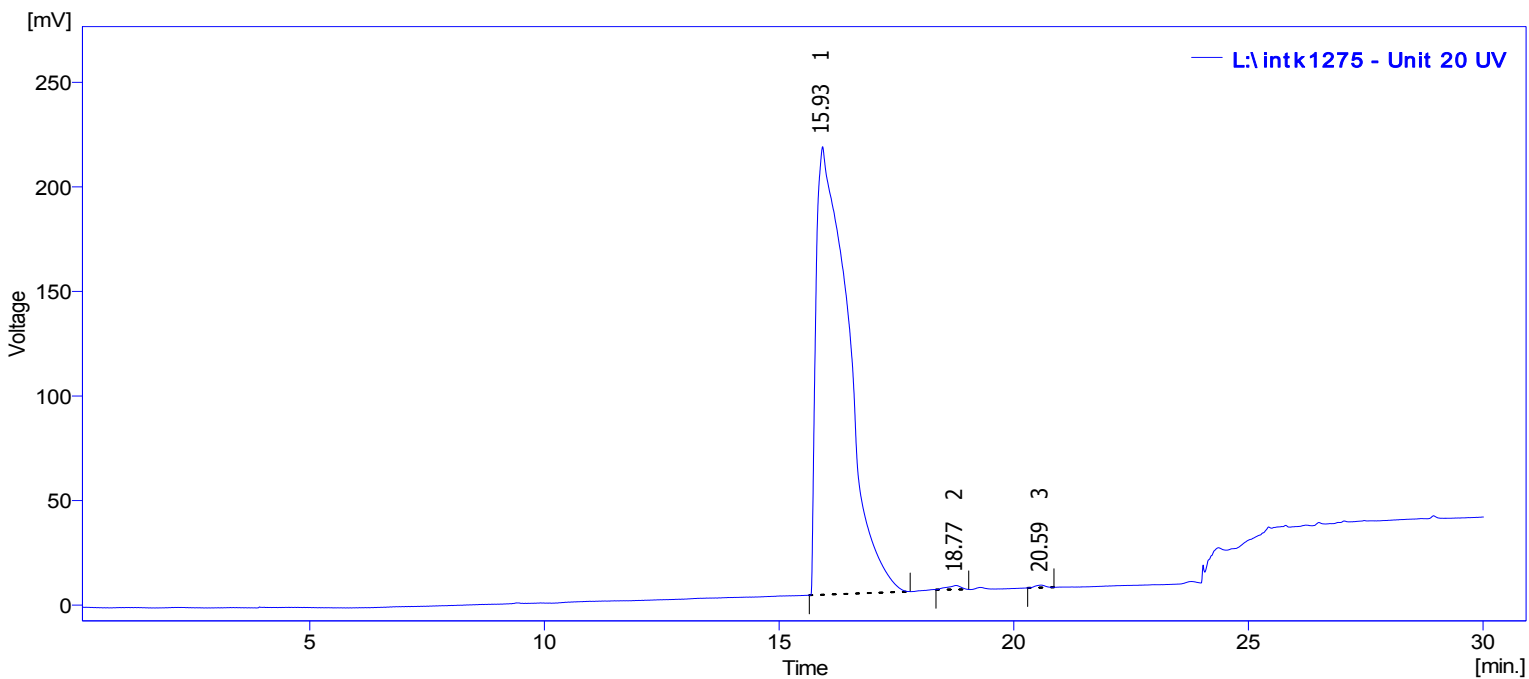
Result Table (Uncal - L:\intk1268 - Unit 20 UV)

	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		16.43	17.940	1.72	21.45	20.1	0.17	53860	1077193		1.50	
2		19.06	65.700	6.84	78.55	79.9	0.15	93593	1871865	9.90	1.28	
		Total	83.640	8.56	100.00	100.0						

MC-2329
2,4-Dimethylaniline, hydrochloride, [ring-14C(U)]-
Lot 645-179-0608-A-20091023-JZ

Chromatogram Info:

File Name	: L:\intk1275	File Created	: 5/5/2014 4:45:00 PM
Origin	: Acquired, Acquisition started 10/30/2009 9:43:39 AM	Acquired Date	: 10/30/2009 10:13:37 AM
Project	: Work1	By	: Administrator
Method	: unit20_30_min_run_	By	: Administrator
Description	: UV trace of standard material alone	Modified	: 5/6/2014 8:49 AM
Created	: 3/26/2008 9:00 AM	Detection	: UV 254nm
Column	:	Temperature	:
Mobile Phase	:	Pressure	:
Flow Rate	:	Note	:



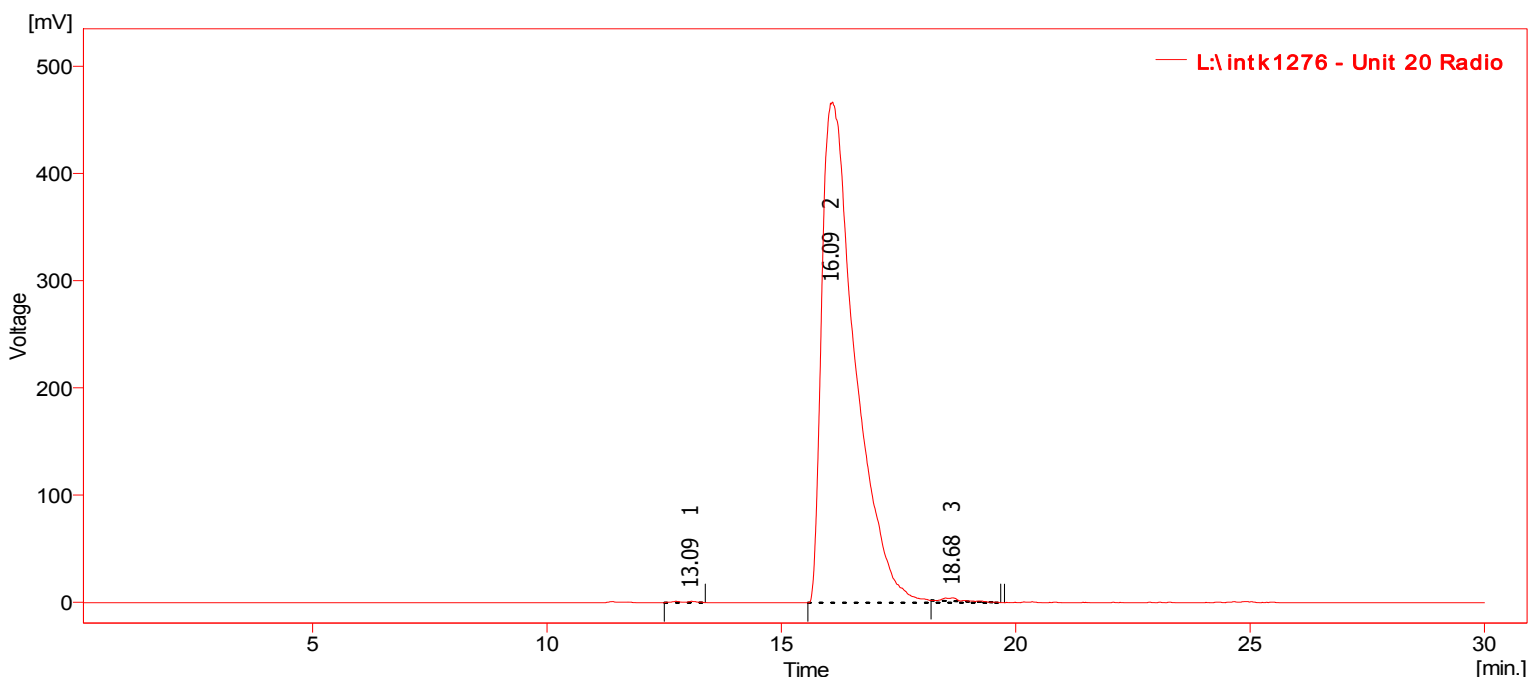
Result Table (Uncal - L:\intk1275 - Unit 20 UV)

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	15.93	10153.073	214.26	99.44	98.5	0.82	2107	42141		3.39	
2	18.77	39.923	1.95	0.39	0.9	0.35	16241	324821	2.88	0.82	
3	20.59	17.478	1.21	0.17	0.6	0.24	40762	815247	3.65	0.93	
Total		10210.475	217.42	100.00	100.0						

MC-2329
2,4-Dimethylaniline, hydrochloride, [ring-14C(U)]-
Lot 645-179-0608-A-20091023-JZ

Chromatogram Info:

File Name	: L:\intk1276	File Created	: 5/5/2014 4:44:59 PM
Origin	: Acquired, Acquisition started 10/30/2009 11:10:37 AM	Acquired Date	: 10/30/2009 11:40:36 AM
Project	: Work1	By	: Administrator
Method	: unit20_30_min_run_	By	: Administrator
Description	: Radiochemical trace of 14C material co-injected with standard		
Created	: 3/26/2008 9:00 AM	Modified	: 5/6/2014 8:50 AM
Column	:	Detection	: Radiochemical
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



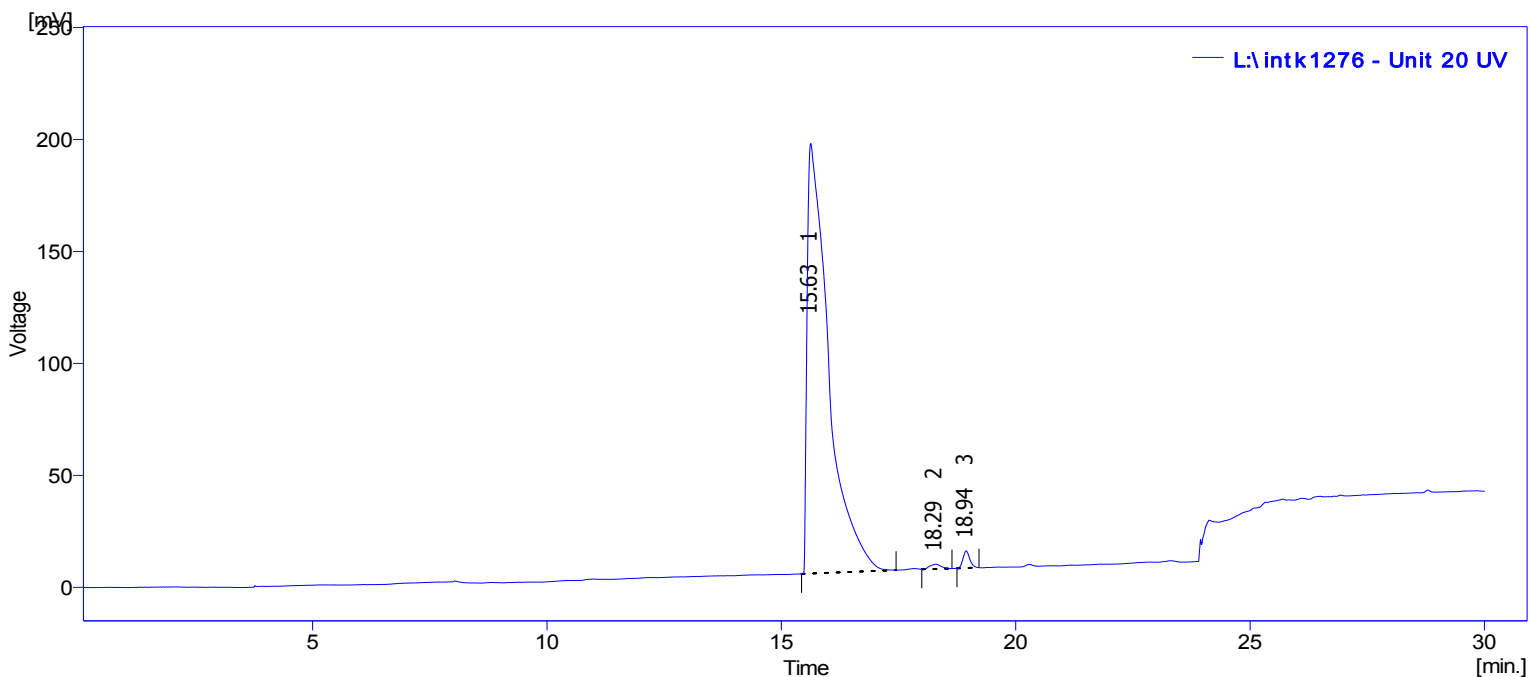
Result Table (Uncal - L:\intk1276 - Unit 20 Radio)

	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		13.09	35.011	1.42	0.15	0.3	0.17	31612	632231		0.73	
2		16.09	23103.924	467.01	99.48	99.0	0.72	2742	54847	3.95	4.15	
3		18.68	84.882	3.11	0.37	0.7	0.33	17392	347841	2.88	1.56	
		Total	23223.816	471.54	100.00	100.0						

MC-2329
2,4-Dimethylaniline, hydrochloride, [ring-14C(U)]-
Lot 645-179-0608-A-20091023-JZ

Chromatogram Info:

File Name	: L:\intk1276	File Created	: 5/6/2014 9:12:54 AM
Origin	: Acquired, Acquisition started 10/30/2009 11:10:37 AM	Acquired Date	: 10/30/2009 11:40:36 AM
Project	: Work1	By	: Administrator
Method	: unit20_30_min_run_	By	: Administrator
Description	: UV trace of 14C material co-injected with standard	Modified	: 5/6/2014 9:14 AM
Created	: 3/26/2008 9:00 AM		
Column	:	Detection	: UV 254nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



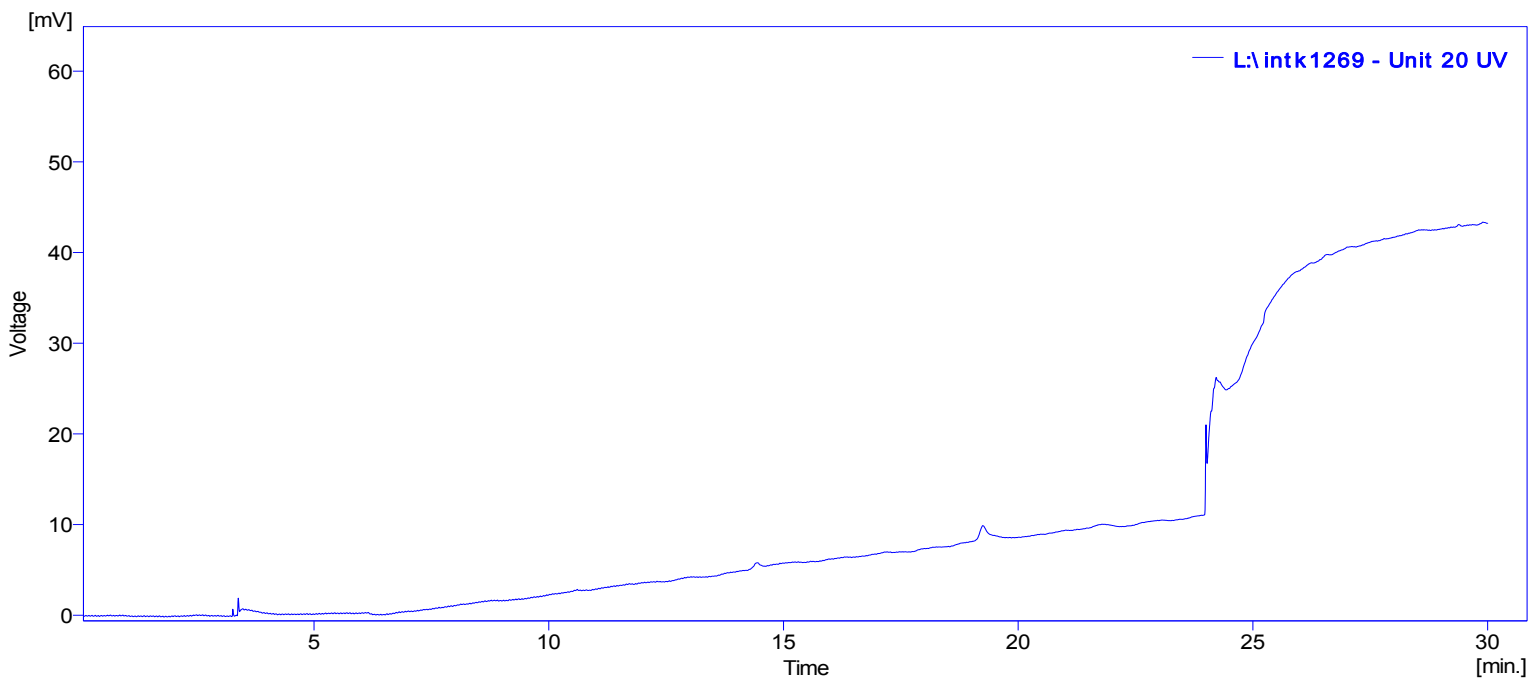
Result Table (Uncal - L:\intk1276 - Unit 20 UV)

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	15.63	6114.009	192.08	98.21	95.2	0.47	6124	122483		4.75	
2	18.29	34.550	2.14	0.55	1.1	0.28	24203	484056	4.20	1.13	
3	18.94	77.135	7.65	1.24	3.8	0.16	77657	1553147	1.77	1.19	
Total		6225.694	201.87	100.00	100.0						

MC-2329
2,4-Dimethylaniline, hydrochloride, [ring-14C(U)]-
Lot 645-179-0608-A-20091023-JZ

Chromatogram Info:

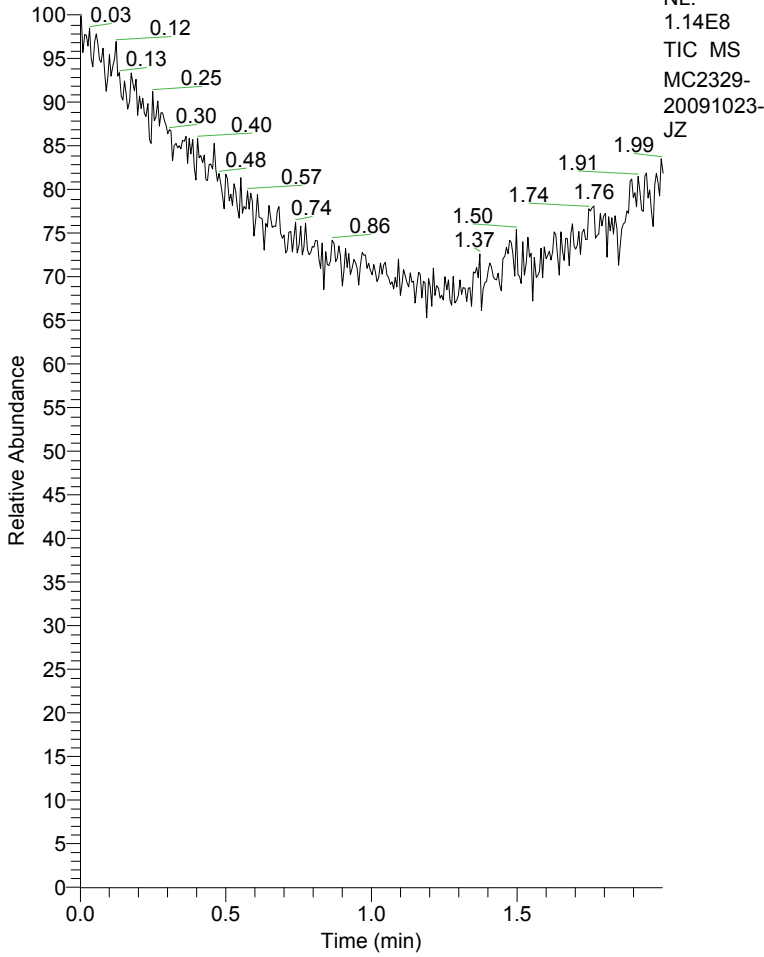
File Name	: L:\intk1269	File Created	: 5/5/2014 4:44:59 PM
Origin	: Acquired, Acquisition started 10/29/2009 2:12:40 PM	Acquired Date	: 10/29/2009 2:42:39 PM
Project	: Work1	By	: Administrator
Method	: unit20_30_min_run_	By	: Administrator
Description	: UV trace of blank injection	Modified	: 5/6/2014 8:53 AM
Created	: 3/26/2008 9:00 AM		
Column	:	Detection	: UV 254nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



Result Table (Uncal - L:\intk1269 - 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											

RT: 0.00 - 2.00



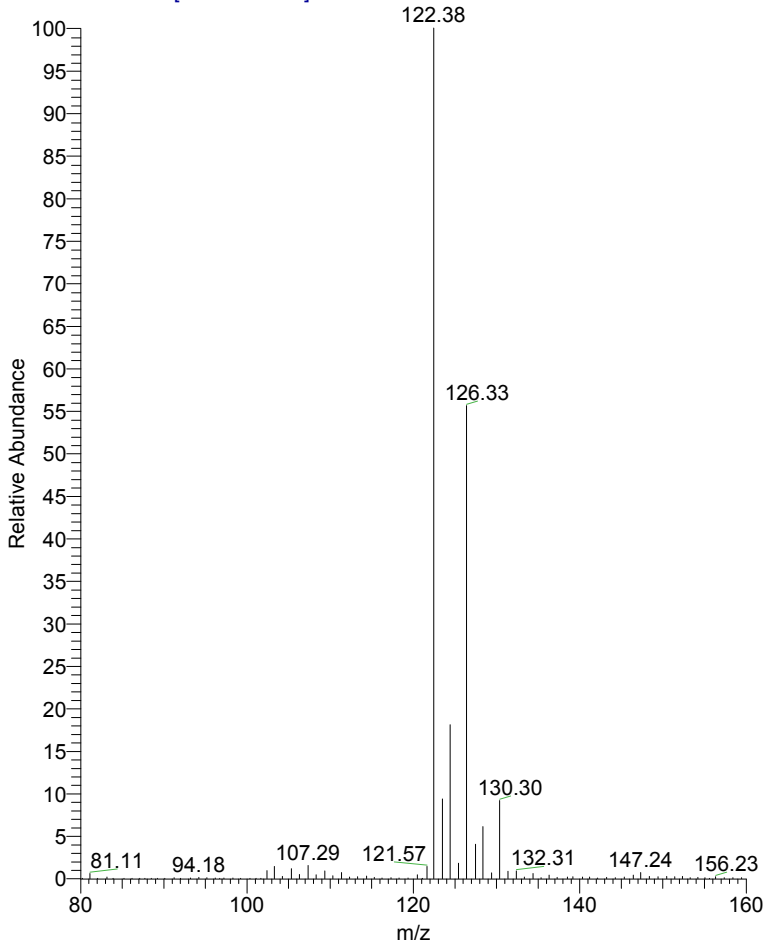
MC2329-20091023-JZ #1-352 RT: 0.00-2.00

T: + c NSI Full ms [80.00-160.00]

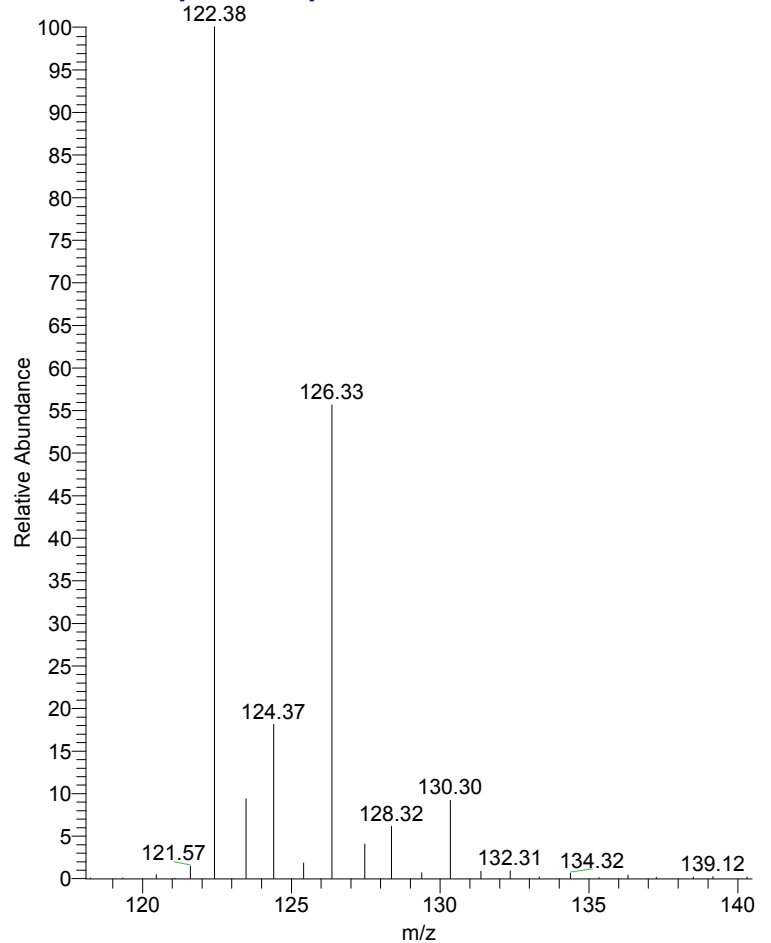
m/z = 120.34-136.62

m/z	Intensity	Relative
126.33	21684593.7	55.60
127.43	1568851.7	4.02
128.32	2374252.9	6.09
129.34	255611.2	0.66
130.30	3577306.1	9.17
131.32	330753.3	0.85
132.31	351263.8	0.90
133.28	69820.5	0.18
134.32	225752.0	0.58
135.29	42474.8	0.11
136.26	152715.7	0.39

MC2329-20091023-JZ #1-352 RT: 0.00-2.00 AV: 352 NL: 3.90E7
T: + c NSI Full ms [80.00-160.00]



MC2329-20091023-JZ #1-352 RT: 0.00-2.00 AV: 352 NL: 3.90E7
T: + c NSI Full ms [80.00-160.00]



MC2329 1H NMR in MeOD
Batch 20091023-JZ



7.248
7.226
7.216
7.162
7.142

2.373
2.350

NAME MC2329
EXPNO 1
PROCNO 1
Date_ 20091030
Time 11.39
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 65536
SOLVENT MeOD
NS 512
DS 0
SWH 8278.146 Hz
FIDRES 0.126314 Hz
AQ 3.9584243 sec
RG 181
DW 60.400 usec
DE 6.50 usec
TE 294.1 K
D1 2.00000000 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 400.1300053 MHz
WDW no
SSB 0
LB 0.00 Hz
GB 0
PC 1.00

