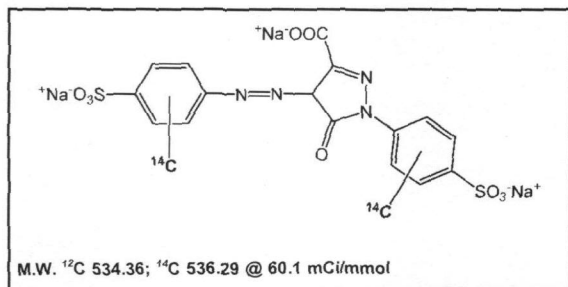




Product Data Sheet

MC-2336

Tartrazine, [phenyl-¹⁴C(U)]-



Lot #: 645-188-0601-A-20091217-PF

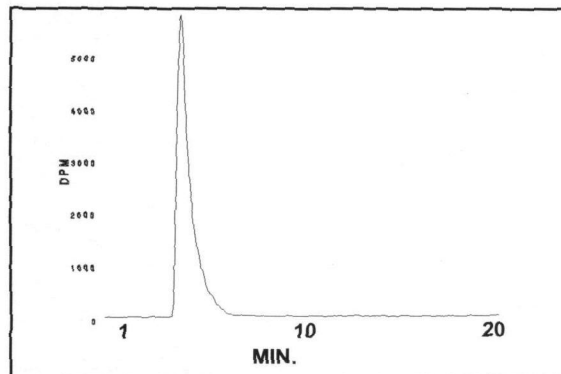
Specific Activity: 60.1 mCi/mmol

Concentration: 0.1 mCi/ml; 892.32 µg/ml

Packaged in: Ethanol solution

Date of Analysis: January 08, 2010

Radiochemical Purity: 99.7%



HPLC ANALYSIS LOT 645-188-0601-A-20091217-PF
File Name: intk1486 Date and Time: 1/8/2010 10:03:39 AM
Unit 20 Radio

Peak #	Area %	Time	Area
1	99.79	3.97000	27361.24901
2	0.21	5.43670	58.65809
Totals	100.00		27419.90710

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-2336

Tartrazine, [phenyl-¹⁴C(U)]-

Lot 645-188-0601-A-20091217-PF

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.

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

Volume of standard alone injection was 1.0 µl.

Volume of **Tartrazine, [phenyl-¹⁴C(U)]-** alone injection was 1.0 µl.

Co-injection solution consisted of 1.0 µl **Tartrazine, [phenyl-¹⁴C(U)]-** + 1.0 µl standard.

Volume of co-injection was 2.0 µl.

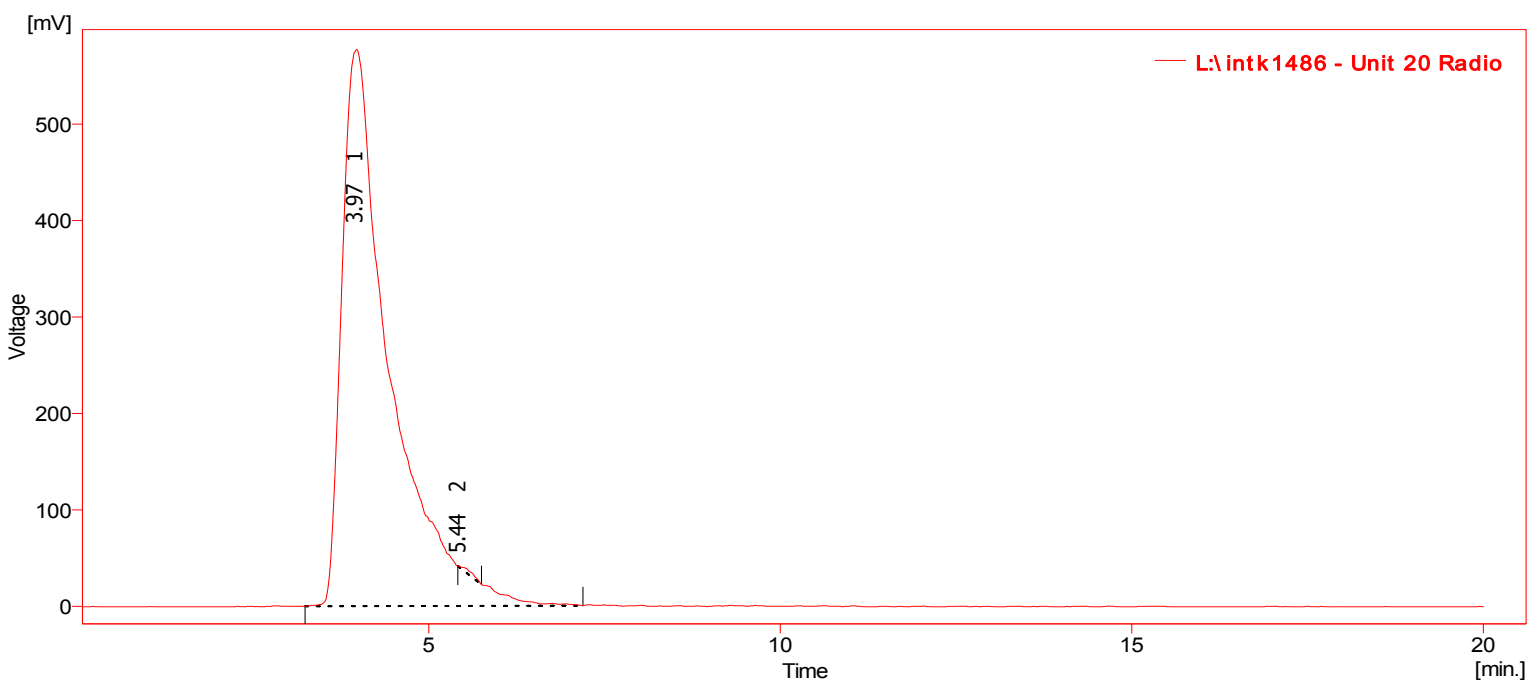
Volume of blank injection was 1.0 µl.

B) Mass spectrometry - Negative mode

MC-2336
Tartrazine, [phenyl-14C(U)]-
Lot 645-188-0601-A-20091217-PF

Chromatogram Info:

File Name	: L:\intk1486	File Created	: 5/7/2014 3:27:26 PM
Origin	: Acquired, Acquisition started 1/8/2010 9:43:40 AM	Acquired Date	: 1/8/2010 10:03:39 AM
Project	: Work1	By	: Administrator
Method	: Unit20_20_min_run	By	: Administrator
Description	: Radiochemical trace of 14C material alone	Modified	: 5/7/2014 3:41 PM
Created	: 3/10/2008 1:42 PM		
Column	:	Detection	: Radiochemical
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



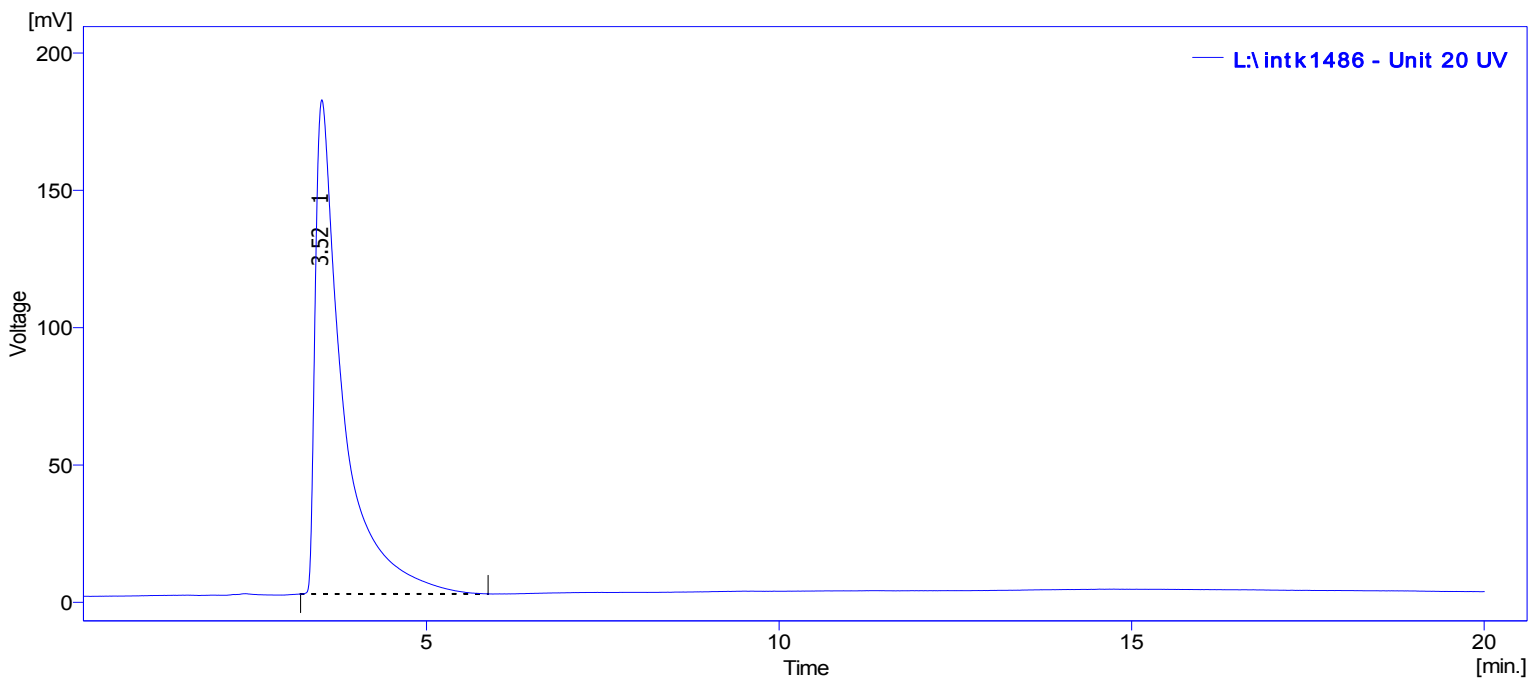
Result Table (Uncal - L:\intk1486 - Unit 20 Radio)

	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		3.97	27361.249	577.32	99.79	99.7	0.61	232	4642		2.73	
2		5.44	58.658	1.48	0.21	0.3	0.04	121796	2435916	2.66	7.14	
	Total		27419.907	578.80	100.00	100.0						

MC-2336
Tartrazine, [phenyl-14C(U)]-
Lot 645-188-0601-A-20091217-PF

Chromatogram Info:

File Name	: L:\intk1486	File Created	: 5/7/2014 3:27:26 PM
Origin	: Acquired, Acquisition started 1/8/2010 9:43:40 AM	Acquired Date	: 1/8/2010 10:03:39 AM
Project	: Work1	By	: Administrator
Method	: Unit20_20_min_run	By	: Administrator
Description	: UV trace of 14C material alone	Modified	: 5/7/2014 3:42 PM
Created	: 3/10/2008 1:42 PM		
Column	:	Detection	: UV 254nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



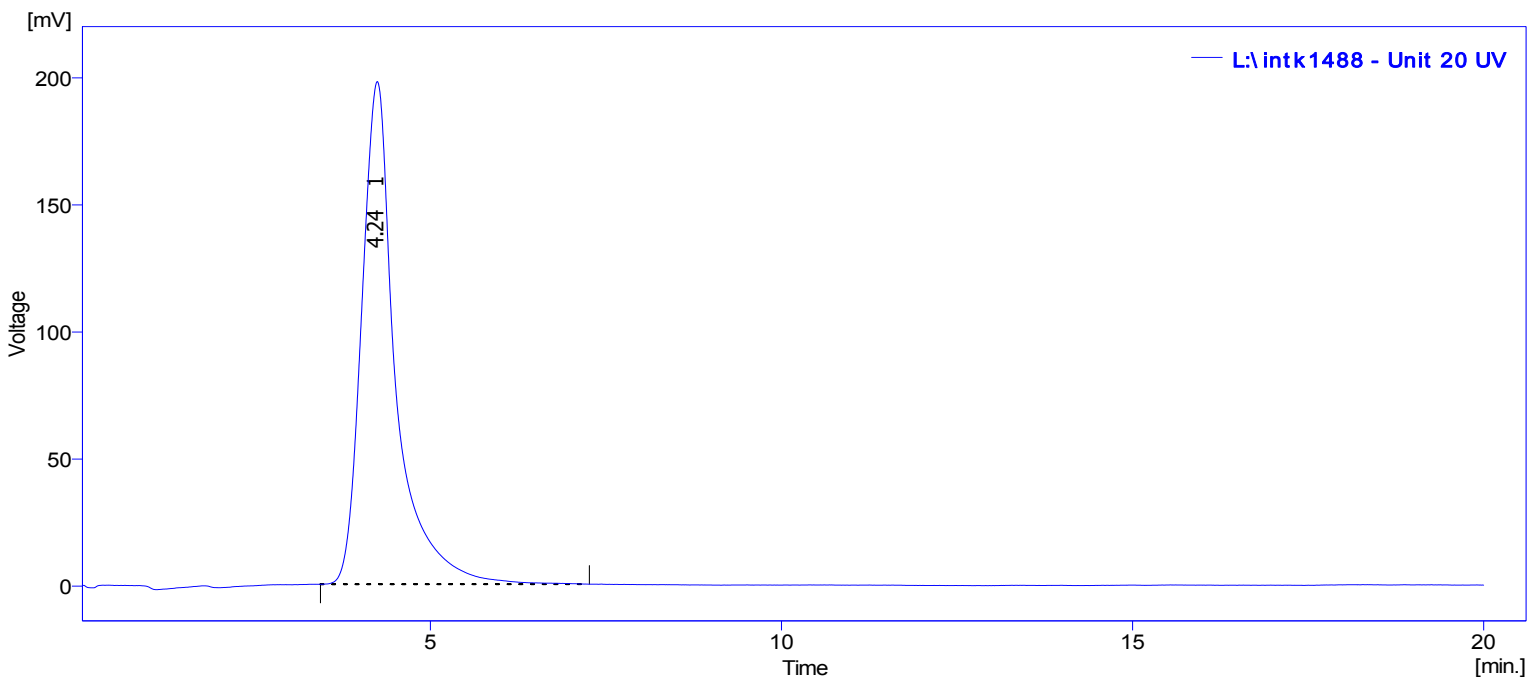
Result Table (Uncal - L:\intk1486 - Unit 20 UV)

	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		3.52	4846.402	179.94	100.00	100.0	0.34	581	11624		3.69	
		Total	4846.402	179.94	100.00	100.0						

MC-2336
Tartrazine, [phenyl-14C(U)]-
Lot 645-188-0601-A-20091217-PF

Chromatogram Info:

File Name	: L:\intk1488	File Created	: 5/7/2014 3:27:26 PM
Origin	: Acquired, Acquisition started 1/8/2010 10:47:14 AM	Acquired Date	: 1/8/2010 11:07:12 AM
Project	: Work1	By	: Administrator
Method	: Unit20_20_min_run	By	: Administrator
Description	: UV trace of standard material alone	Modified	: 5/7/2014 3:43 PM
Created	: 3/10/2008 1:42 PM		
Column	:	Detection	: UV 254nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



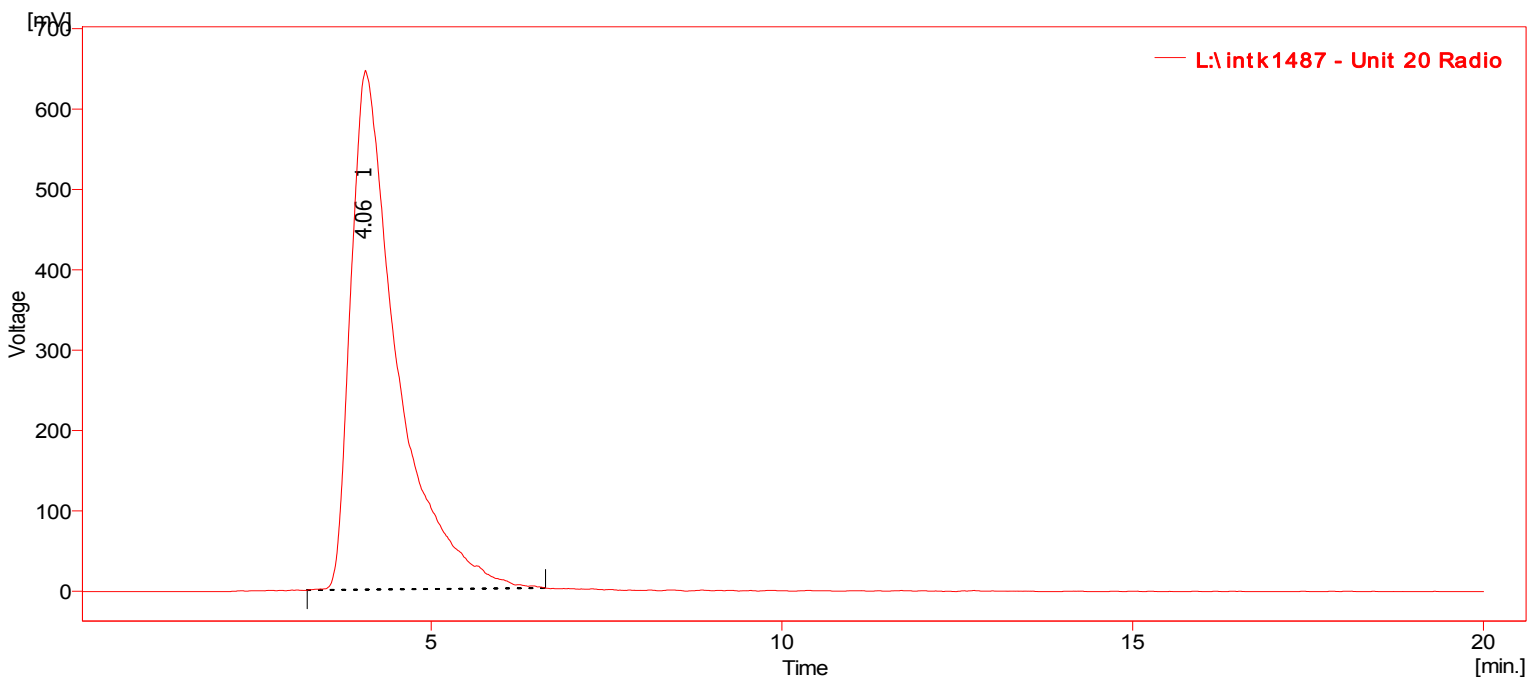
Result Table (Uncal - L:\intk1488 - Unit 20 UV)

	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		4.24	6685.063	197.81	100.00	100.0	0.45	485	9708		1.51	
		Total	6685.063	197.81	100.00	100.0						

MC-2336
Tartrazine, [phenyl-14C(U)]-
Lot 645-188-0601-A-20091217-PF

Chromatogram Info:

File Name	: L:\intk1487	File Created	: 5/7/2014 3:27:26 PM
Origin	: Acquired, Acquisition started 1/8/2010 10:20:20 AM	Acquired Date	: 1/8/2010 10:40:19 AM
Project	: Work1	By	: Administrator
Method	: Unit20_20_min_run	By	: Administrator
Description	: Radiochemical trace of 14C material co-injected with standard		
Created	: 3/10/2008 1:42 PM	Modified	: 5/7/2014 3:45 PM
Column	:	Detection	: Radiochemical
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



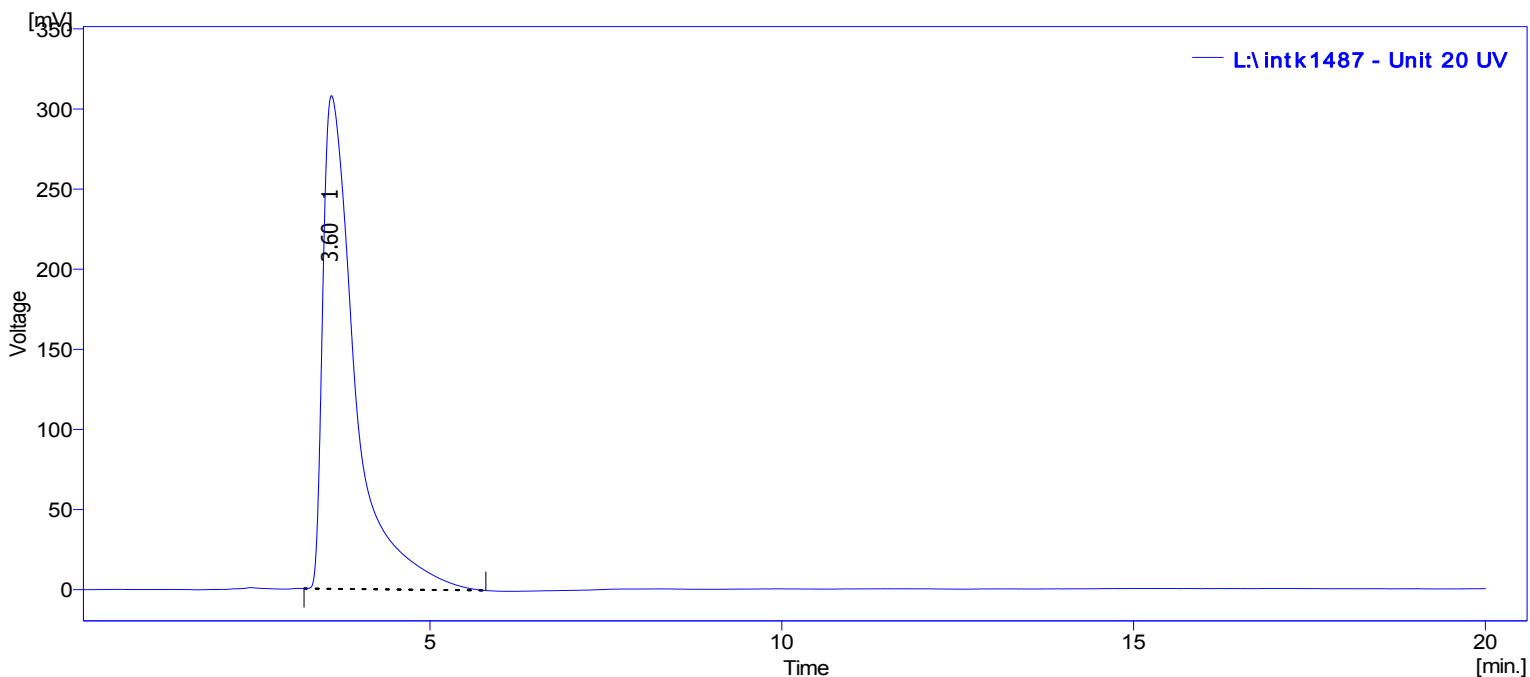
Result Table (Uncal - L:\intk1487 - Unit 20 Radio)

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	4.06	29649.095	646.16	100.00	100.0	0.63	230	4609		2.24	
Total		29649.095	646.16	100.00	100.0						

MC-2336
Tartrazine, [phenyl-14C(U)]-
Lot 645-188-0601-A-20091217-PF

Chromatogram Info:

File Name	: L:\intk1487	File Created	: 5/7/2014 3:27:26 PM
Origin	: Acquired, Acquisition started 1/8/2010 10:20:20 AM	Acquired Date	: 1/8/2010 10:40:19 AM
Project	: Work1	By	: Administrator
Method	: Unit20_20_min_run	By	: Administrator
Description	: UV trace of 14C material co-injected with standard	Modified	: 5/7/2014 3:40 PM
Created	: 3/10/2008 1:42 PM		
Column	:	Detection	: UV 254nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



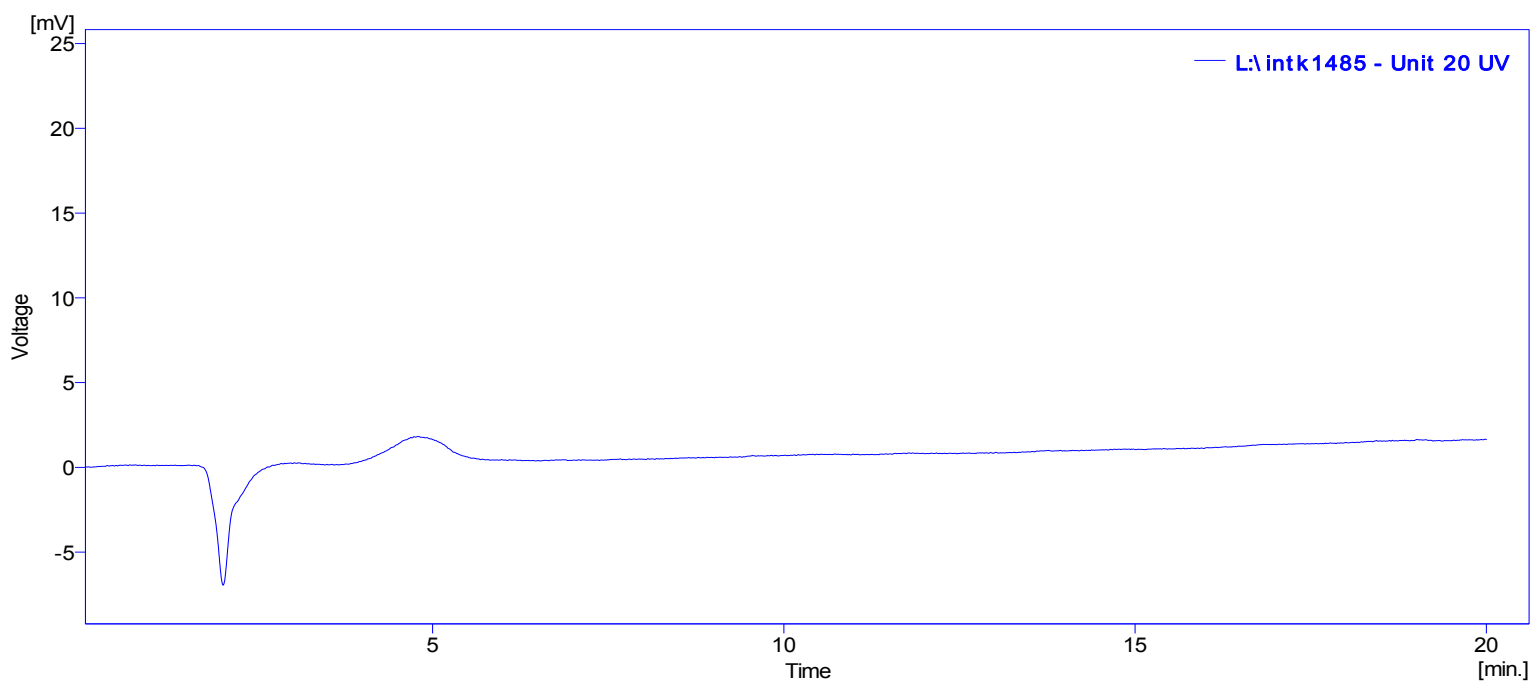
Result Table (Uncal - L:\intk1487 - Unit 20 UV)

	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		3.60	9845.709	307.83	100.00	100.0	0.43	382	7647		3.10	
		Total	9845.709	307.83	100.00	100.0						

MC-2336
Tartrazine, [phenyl-14C(U)]-
Lot 645-188-0601-A-20091217-PF

Chromatogram Info:

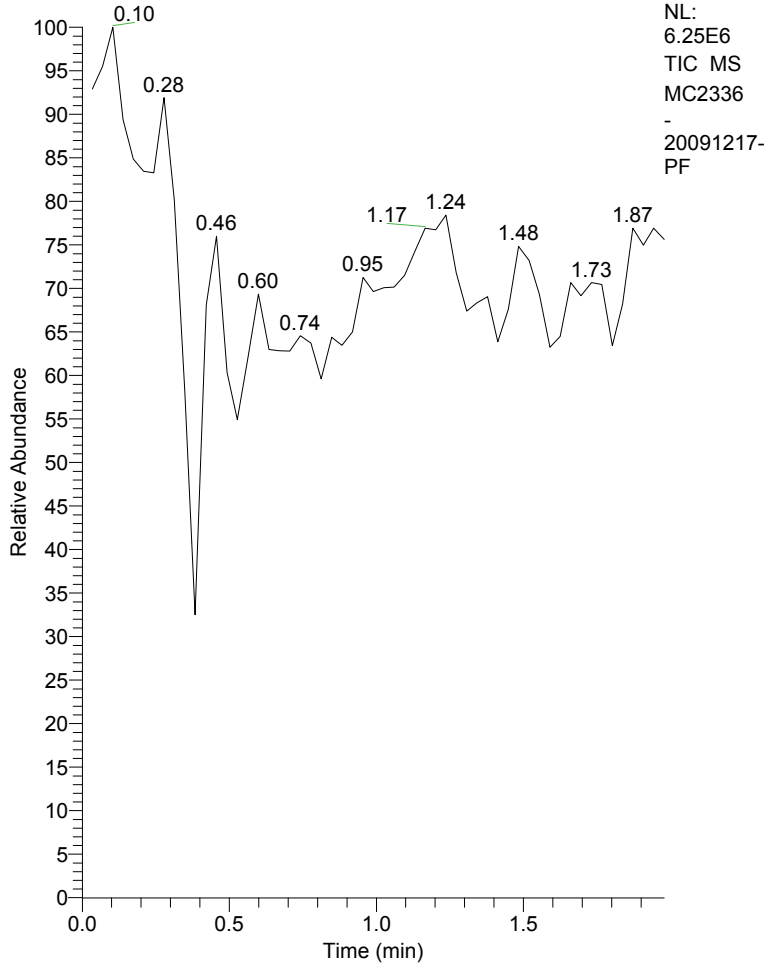
File Name : L:\intk1485 File Created : 5/7/2014 3:27:26 PM
Origin : Acquired, Acquisition started 1/8/2010 9:20:38 AM Acquired Date : 1/8/2010 9:40:36 AM
Project : Work1 By : Administrator
Method : Unit20_20_min_run By : Administrator
Description : UV trace of blank injection
Created : 3/10/2008 1:42 PM Modified : 5/7/2014 3:36 PM
Column : Detection : UV 254nm
Mobile Phase : Temperature :
Flow Rate : Pressure :
Note :



Result Table (Uncal - L:\intk1485 - 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 - 1.98



NL:
6.25E6
TIC MS
MC2336
-
20091217-
PF

MC2336-20091217-PF #1-56 RT: 0.03-1.98

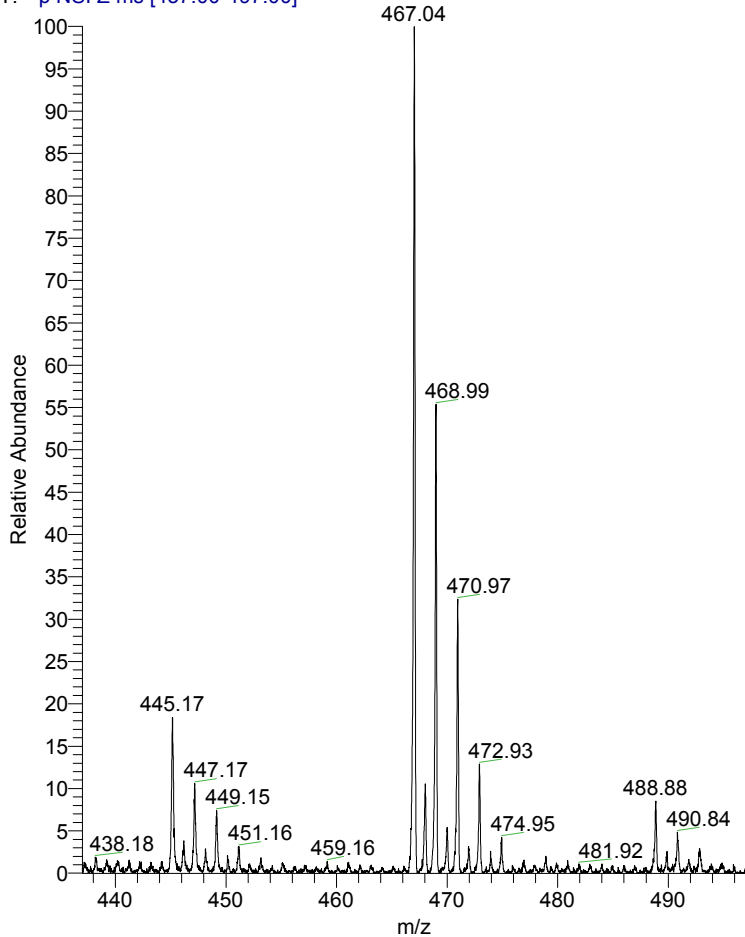
T: - p NSI Z ms [437.00-497.00]

m/z= 465.04-494.12

m/z	Intensity	Relative
466.02	11928.9	1.05
467.00	1136912.4	100.00
467.98	135699.7	11.94
468.96	588329.4	51.75
469.94	73854.6	6.50
470.93	359880.5	31.65
471.90	44664.2	3.93
472.90	148018.7	13.02
473.90	32045.0	2.82
474.90	51817.1	4.56
475.87	13782.9	1.21
476.86	28390.8	2.50
477.88	21296.4	1.87
478.86	33192.2	2.92
479.83	25709.2	2.26
480.84	25560.1	2.25
481.86	19817.8	1.74
482.88	18372.9	1.62
483.92	18222.6	1.60
484.86	16710.7	1.47
485.93	15917.2	1.40
486.93	14407.4	1.27
487.84	11544.9	1.02
488.84	114954.2	10.11

MC2336-20091217-PF #1-56 RT: 0.03-1.98 AV: 56 NL: 3.07E4

T: - p NSI Z ms [437.00-497.00]



MC2336-20091217-PF #1-56 RT: 0.03-1.98 AV: 56 NL: 3.07E4

T: - p NSI Z ms [437.00-497.00]

