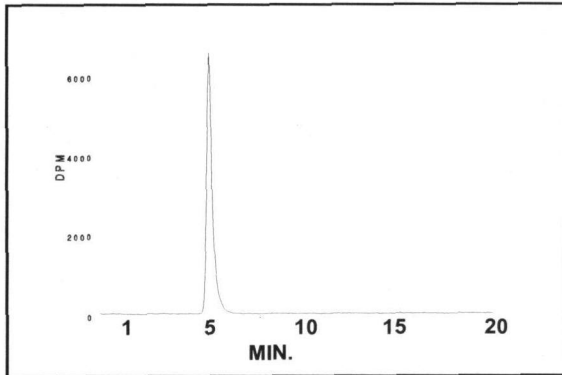
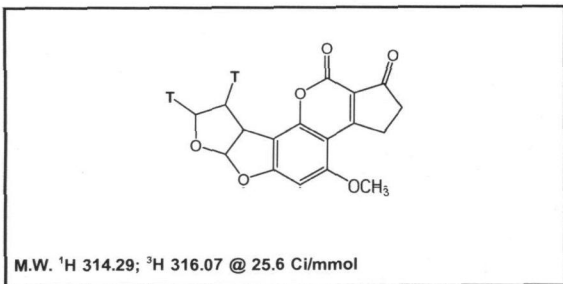




Product Data Sheet

MT-636

Aflatoxin B₂, [8,9-³H(N)]-



Lot #: 186-160-0256-A-20101122-TN

Specific Activity: 25.6 Ci/mmol

Concentration: 1.0 mCi/ml; 12.35 µg/ml

Packaged in: Methanol solution

Date of Analysis: December 15, 2010

Radiochemical Purity: 99.9%

HPLC ANALYSIS LOT 186-160-0256-A-20101122-TN
File Name: int20846 Date and Time: 12/15/2010 3:20:03 P
Unit 2 Radio

Peak #	Area %	Time	Area
1	100.00	5.58000	13556.50437
Totals	100.00		13556.50437

Stability and Storage Recommendation: The rate of decomposition is approximately 1%/month for the first six months after purification when stored 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.

MT-636

Aflatoxin B₂, [8,9-³H(N)]-

Lot 186-160-0256-A-20101122-TN

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..

Aflatoxin B₂, [8,9-³H(N)]- concentration was 0.25 mCi/ml.

Volume of standard alone injection was 10.0 µl.

Volume of **Aflatoxin B₂, [8,9-³H(N)]-** alone injection was 1.0 µl.

Co-injection solution consisted of 0.5 µl **Acyclovir, [8-³H]-** + 3.5 µl standard.

Volume of co-injection was 4.0 µl.

Volume of blank injection was 5.0 µl.

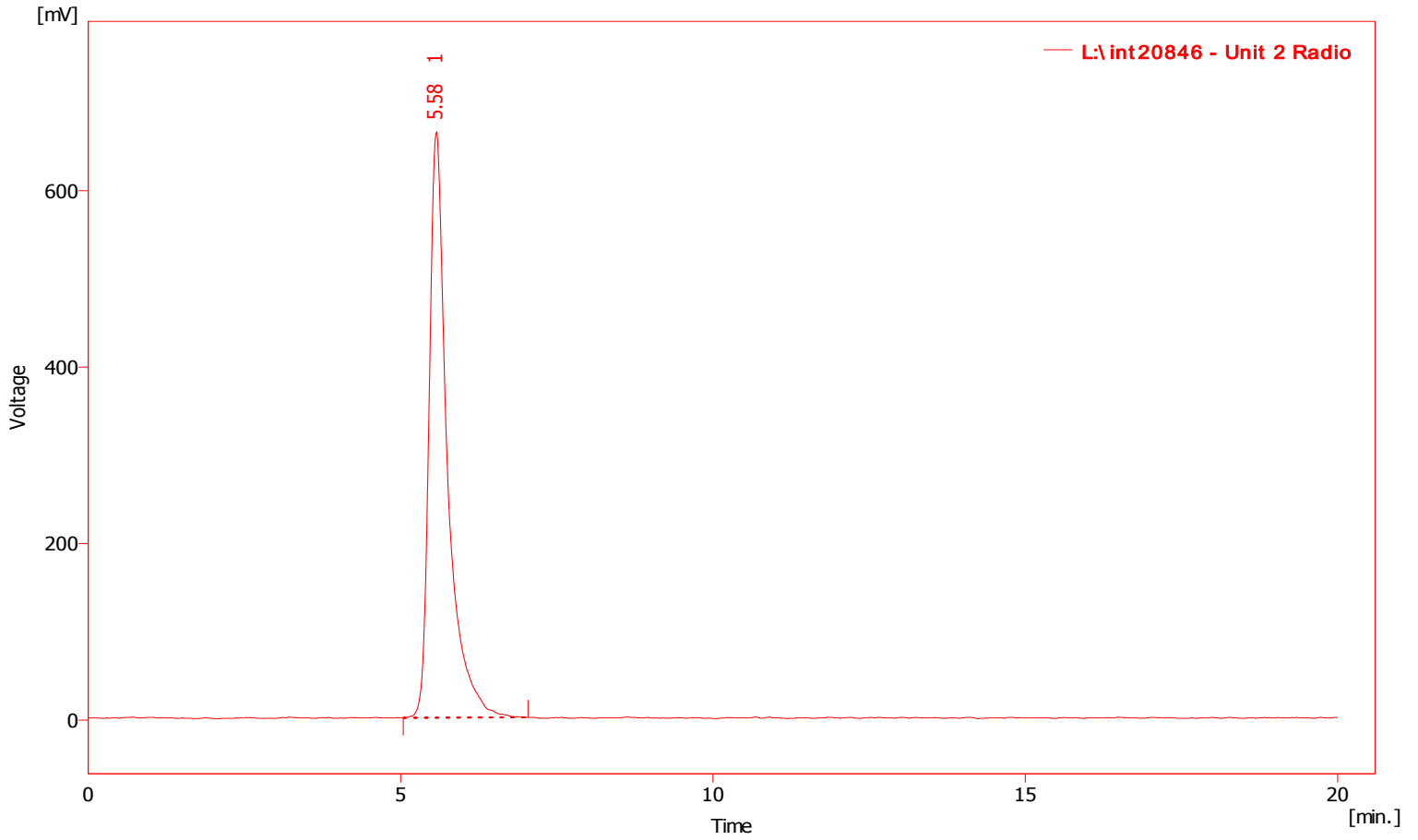
B) Mass spectrometry – Positive mode

C) NMR

MT-636
Aflatoxin B2, [8,9-3H(N)]-
Lot 186-160-0256-A-20101122-TN

Chromatogram Info:

File Name	: L:\int20846	File Created	: 2/27/2014 8:44:42 AM
Origin	: Acquired, Acquisition started 12/15/2010 3:00:03 PM	Acquired Date	: 12/15/2010 3:20:03 PM
Project	: Test	By	: Administrator
Method	: unit2-20minrun	By	: Administrator
Description	: Radiochemical trace of 3H material alone	Modified	: 2/27/2014 9:00 AM
Created	: 8/8/2007 9:12 AM		
Column	:	Detection	: Radiochemical
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



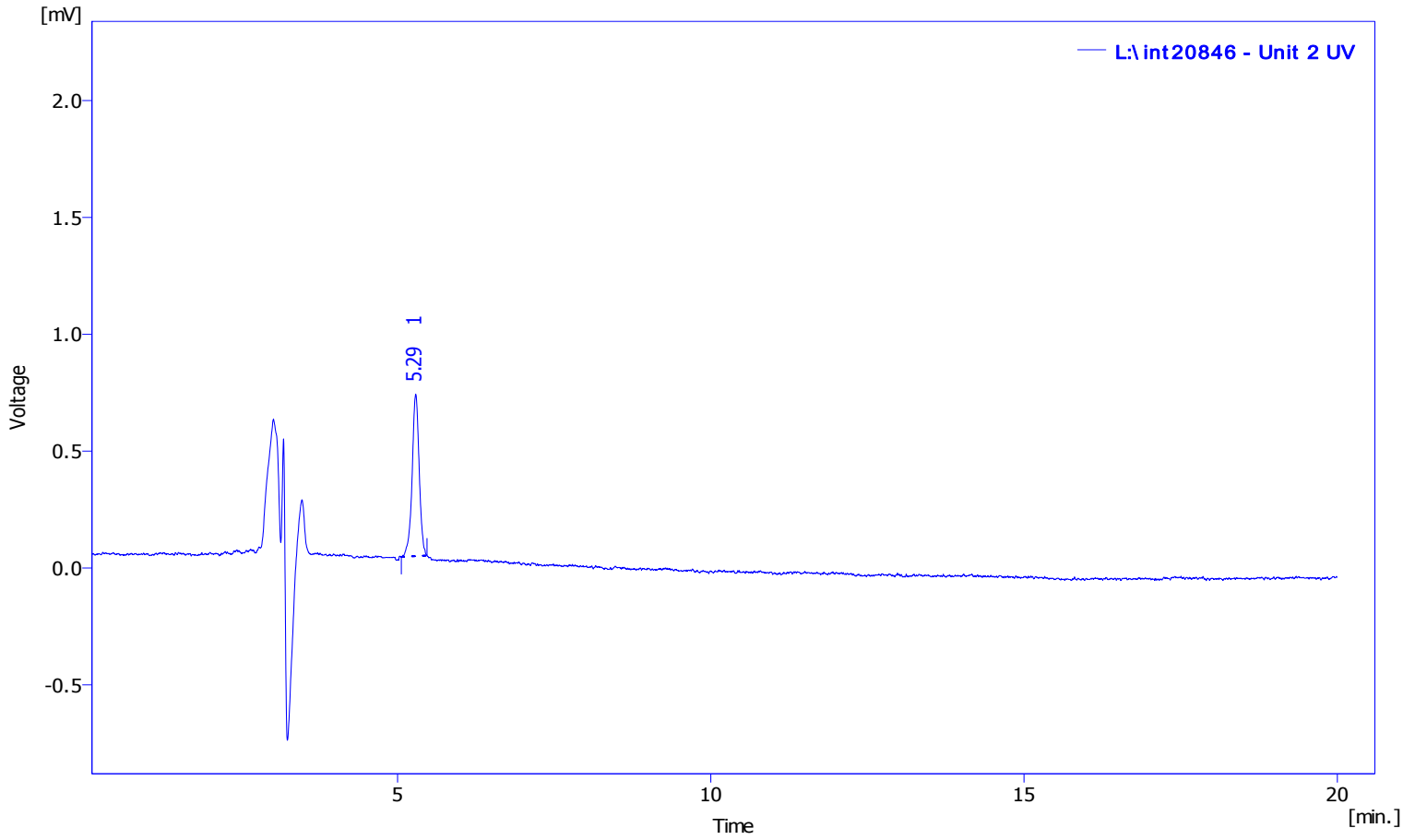
Result Table (Uncal - L:\int20846 - Unit 2 Radio)

	Compound Name	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	Efficiency [th.pl]	Eff/l [t.p./m]	Symmetry/Tailing [-]	Response Factor	Resolution [-]
1		5.58	13556.504	664.07	100.00	100.00	2253.54	45070.72	1.66		
		Total	13556.504	664.07	100.00	100.00					

MT-636
Aflatoxin B2, [8,9-3H(N)]-
Lot 186-160-0256-A-20101122-TN

Chromatogram Info:

File Name	: L:\int20846	File Created	: 2/27/2014 8:44:42 AM
Origin	: Acquired, Acquisition started 12/15/2010 3:00:03 PM	Acquired Date	: 12/15/2010 3:20:03 PM
Project	: Test	By	: Administrator
Method	: unit2-20minrun	By	: Administrator
Description	: UV trace of 3H material alone	Modified	: 2/27/2014 8:59 AM
Created	: 8/8/2007 9:12 AM		
Column	:	Detection	: UV 265nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



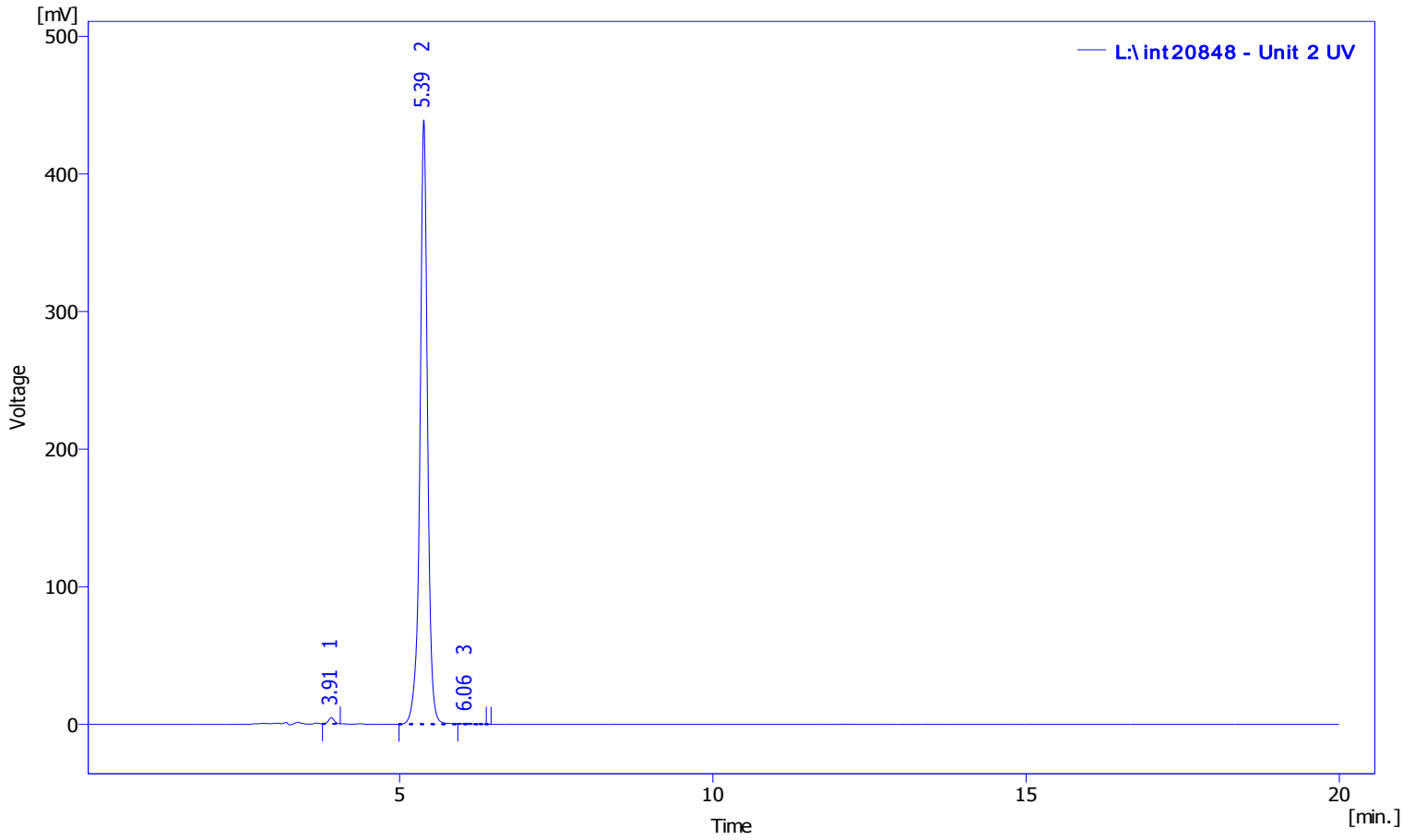
Result Table (Uncal - L:\int20846 - Unit 2 UV)

	Compound Name	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	Efficiency [th.pl]	Eff/l [t.p./m]	Symmetry/Tailing [-]	Response Factor	Resolution [-]
1		5.29	5.432	0.69	100.00	100.00	10766.11	215322.10	0.93		
		Total	5.432	0.69	100.00	100.00					

MT-636
Aflatoxin B2, [8,9-3H(N)]-
Lot 186-160-0256-A-20101122-TN

Chromatogram Info:

File Name	: L:\int20848	File Created	: 2/27/2014 8:44:41 AM
Origin	: Acquired, Acquisition started 12/16/2010 8:31:48 AM	Acquired Date	: 12/16/2010 8:51:48 AM
Project	: Test	By	: Administrator
Method	: unit2-20minrun	By	: Administrator
Description	: UV trace of standard material alone	Modified	: 2/27/2014 9:01 AM
Created	: 8/8/2007 9:12 AM		
Column	:	Detection	: UV 265nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



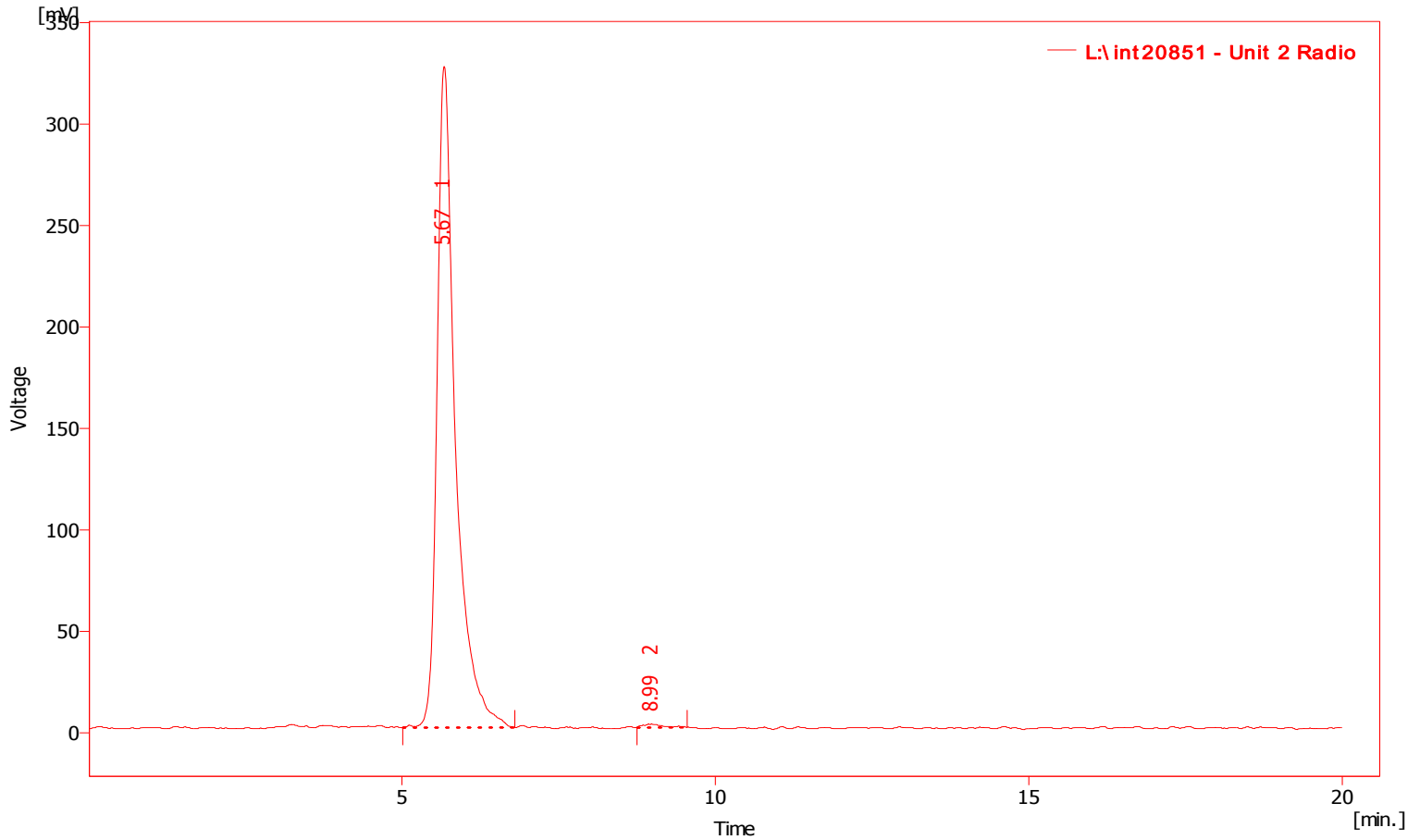
Result Table (Uncal - L:\int20848 - Unit 2 UV)

	Compound Name	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	Efficiency [th.pl]	Eff/I [t.p./m]	Symmetry/Tailing [-]	Response Factor	Resolution [-]
1		3.91	27.575	4.49	0.74	1.01	9063.79	181275.78	1.00		
2		5.39	3717.954	439.22	99.15	98.86	10567.91	211358.16	1.86		7.9
3		6.06	4.379	0.57	0.12	0.13	13360.30	267205.98	1.11		3.2
		Total	3749.908	444.27	100.00	100.00					

MT-636
Aflatoxin B2, [8,9-3H(N)]-
Lot 186-160-0256-A-20101122-TN

Chromatogram Info:

File Name	: L:\int20851	File Created	: 2/27/2014 8:44:41 AM
Origin	: Acquired, Acquisition started 12/16/2010 9:53:15 AM	Acquired Date	: 12/16/2010 10:13:15 AM
Project	: Test	By	: Administrator
Method	: unit2-20minrun	By	: Administrator
Description	: Radiochemical trace of 3H material co-injected with standard	Modified	: 2/27/2014 9:02 AM
Created	: 8/8/2007 9:12 AM		
Column	:	Detection	: Radiochemical
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



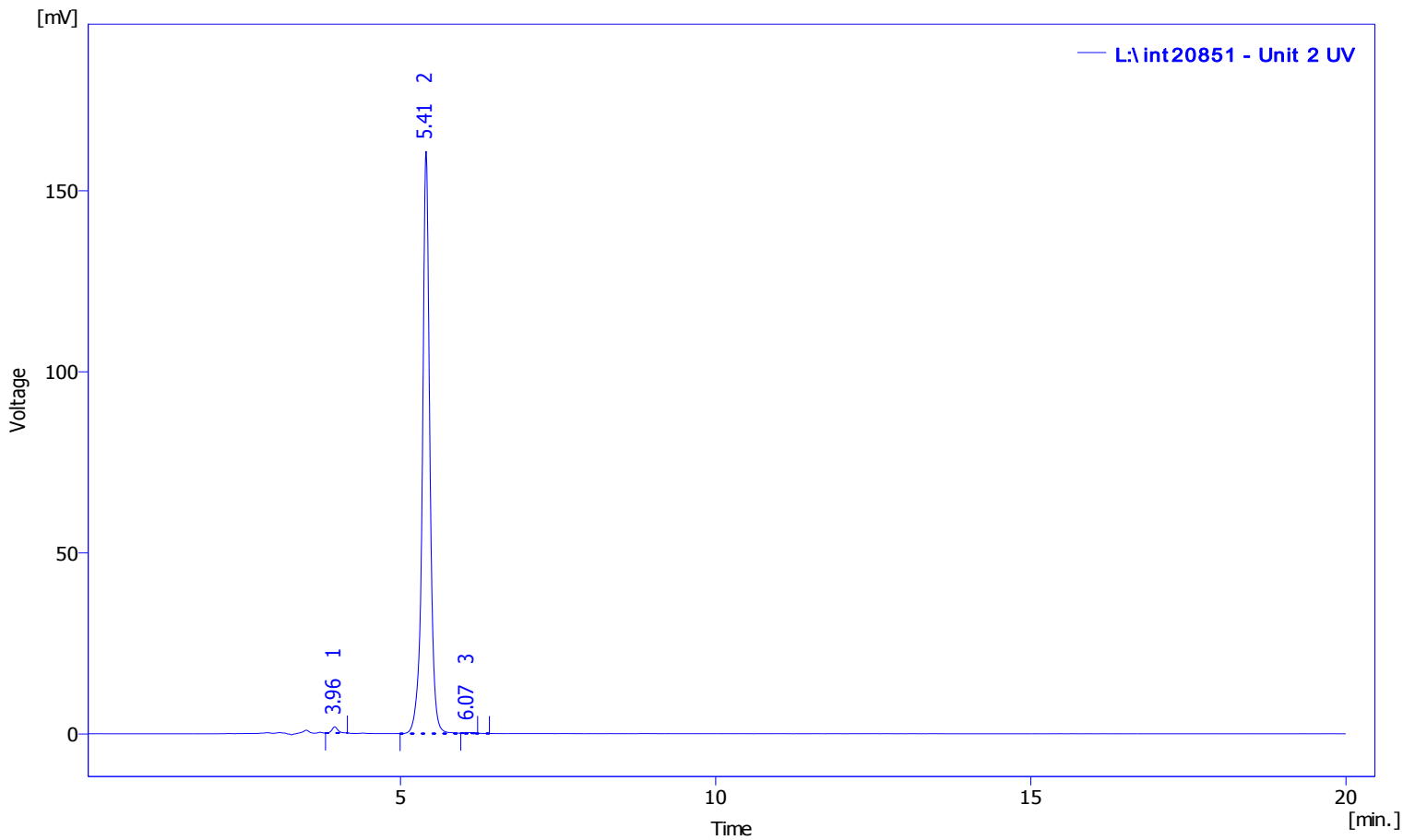
Result Table (Uncal - L:\int20851 - Unit 2 Radio)

	Compound Name	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	Efficiency [th.pl]	Eff/I [t.p./m]	Symmetry/Tailing [-]	Response Factor	Resolution [-]
1		5.67	6654.385	325.82	99.40	99.43	2329.55	46591.07	1.65		
2		8.99	39.992	1.87	0.60	0.57	3795.55	75911.07	1.17		6.3
		Total	6694.377	327.70	100.00	100.00					

MT-636
Aflatoxin B2, [8,9-3H(N)]-
Lot 186-160-0256-A-20101122-TN

Chromatogram Info:

File Name	: L:\int20851	File Created	: 2/27/2014 8:44:41 AM
Origin	: Acquired, Acquisition started 12/16/2010 9:53:15 AM	Acquired Date	: 12/16/2010 10:13:15 AM
Project	: Test	By	: Administrator
Method	: unit2-20minrun	By	: Administrator
Description	: UV trace of 3H material co-injected with standard	Modified	: 2/27/2014 9:02 AM
Created	: 8/8/2007 9:12 AM		
Column	:	Detection	: UV 265nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



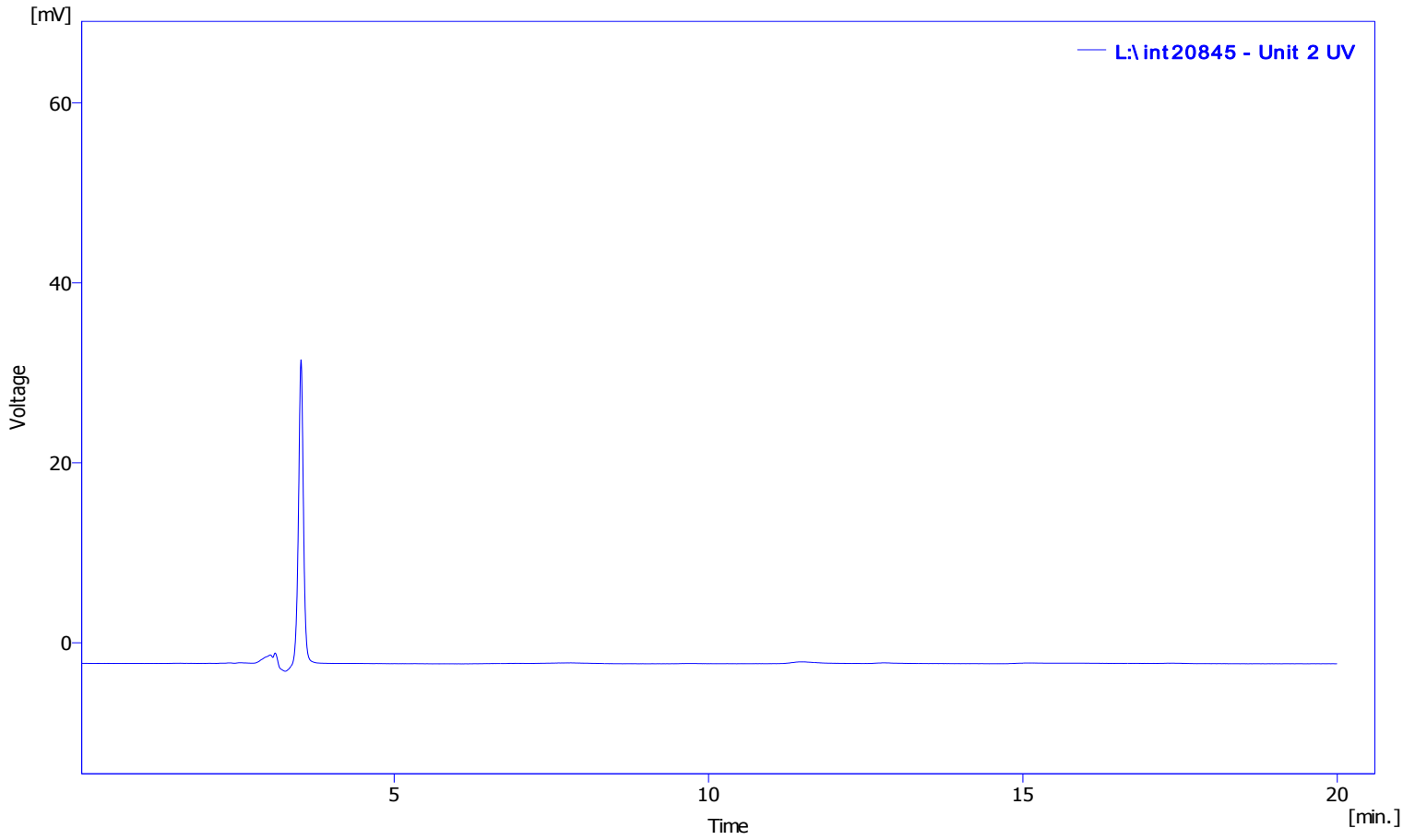
Result Table (Uncal - L:\int20851 - Unit 2 UV)

	Compound Name	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	Efficiency [th.pl]	Eff/l [t.p./m]	Symmetry/Tailing [-]	Response Factor	Resolution [-]
1		3.96	10.918	1.71	0.81	1.05	9281.44	185628.73	1.11		
2		5.41	1331.363	160.76	99.08	98.83	11246.22	224924.34	1.71		7.9
3		6.07	1.430	0.20	0.11	0.12	14980.16	299603.20	1.21		3.3
		Total	1343.711	162.67	100.00	100.00					

MT-636
Aflatoxin B2, [8,9-3H(N)]-
Lot 186-160-0256-A-20101122-TN

Chromatogram Info:

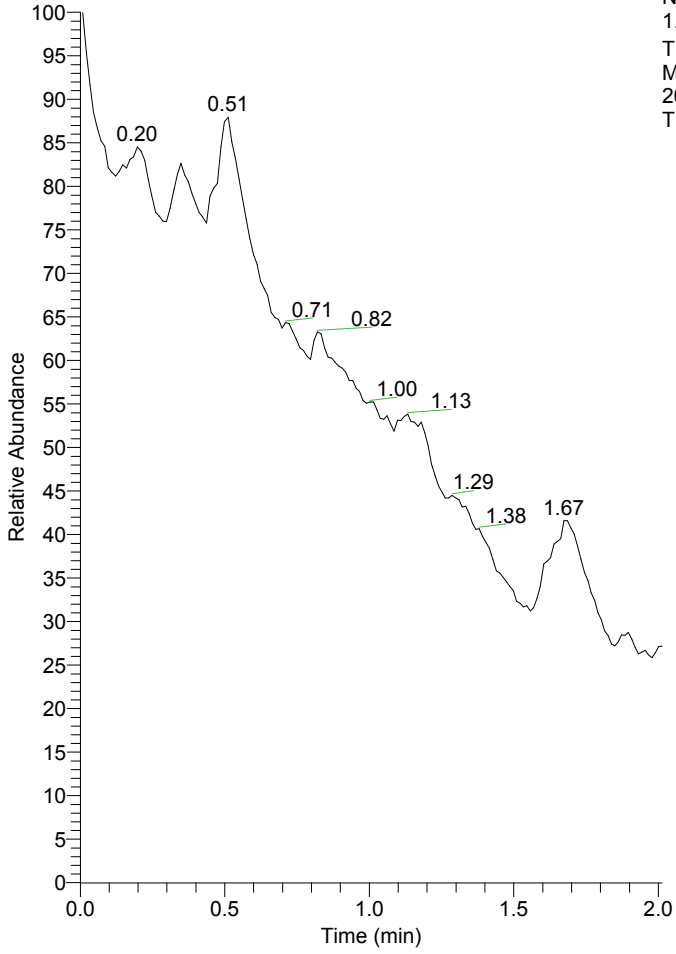
File Name	: L:\int20845	File Created	: 2/27/2014 8:44:42 AM
Origin	: Acquired, Acquisition started 12/15/2010 2:27:19 PM	Acquired Date	: 12/15/2010 2:47:19 PM
Project	: Test	By	: Administrator
Method	: unit2-20minrun	By	: Administrator
Description	: UV trace of blank injection	Modified	: 2/27/2014 9:03 AM
Created	: 8/8/2007 9:12 AM		
Column	:	Detection	: UV 265nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



Result Table (Uncal - L:\int20845 - Unit 2 UV)

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

RT: 0.00 - 2.01



NL:
1.66E7
TIC MS
MT636-
20101122-
TN-MS

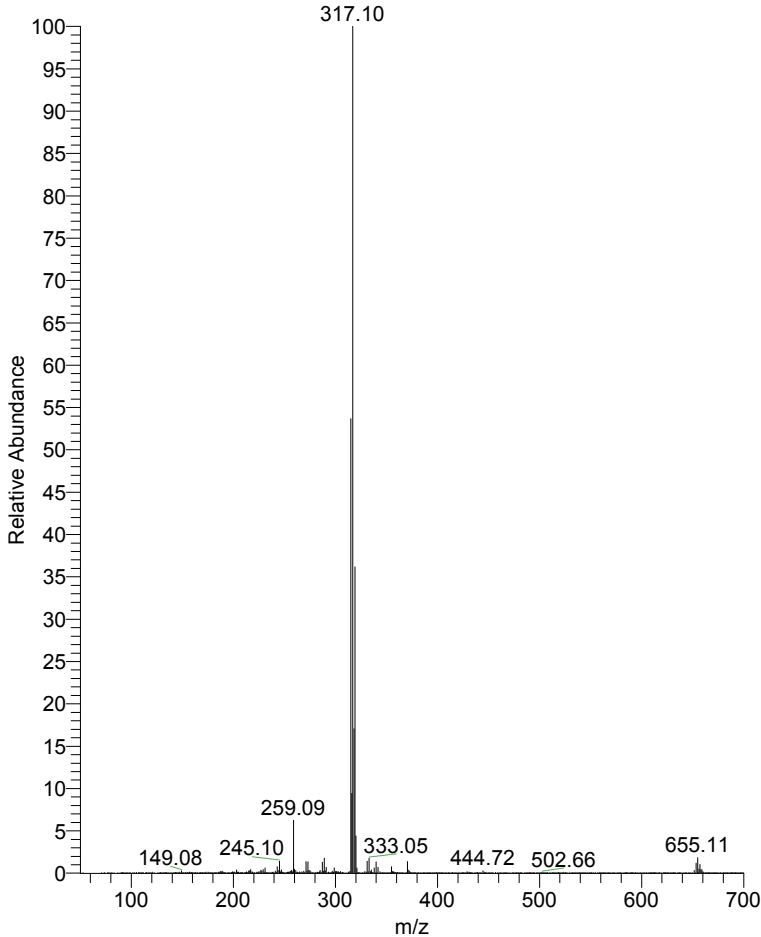
MT636-20101122-TN-MS#1-167 RT: 0.01-2.01

T: + c NSI Full ms [50.00-700.00]

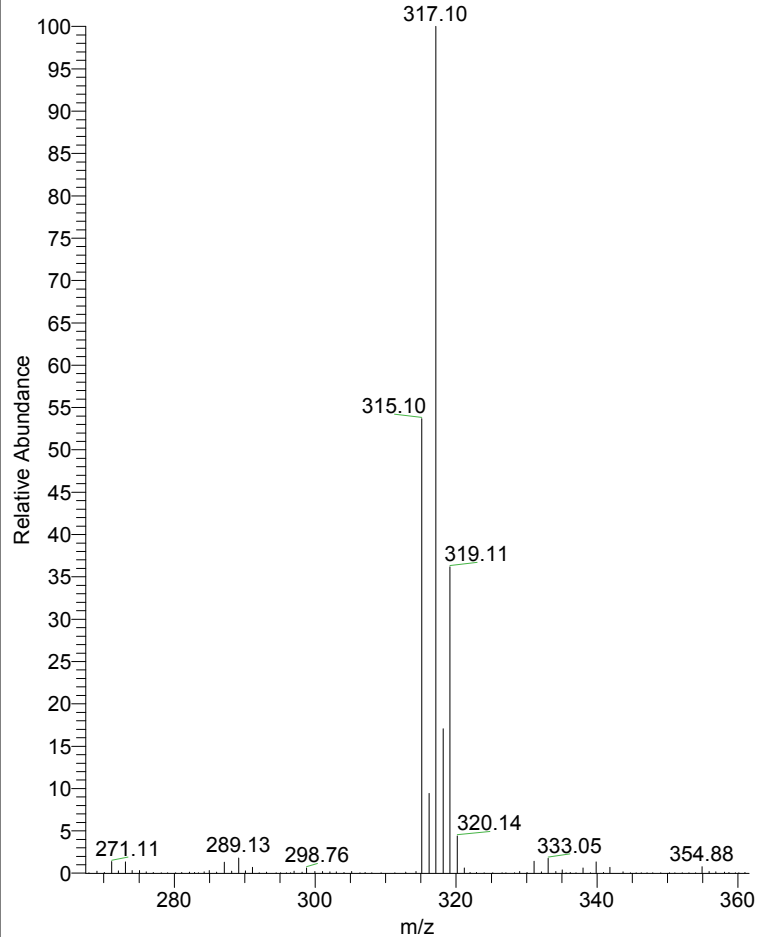
m/z = 307.34-332.66

m/z	Intensity	Relative
314.29	6108.7	0.18
315.10	1819605.3	53.64
316.16	318143.2	9.38
317.10	3392367.8	100.00
318.14	577097.9	17.01
319.11	1226437.8	36.15
320.14	147482.1	4.35
321.14	19934.7	0.59
321.98	1669.3	0.05
322.87	2083.0	0.06
325.22	426.7	0.01
326.51	1103.8	0.03
327.06	227.5	0.01
329.00	6004.0	0.18
330.07	1584.6	0.05
331.04	47384.8	1.40
332.10	4123.8	0.12

MT636-20101122-TN-MS #1-167 RT: 0.01-2.01 AV: 167 NL: 3.39E6
T: + c NSI Full ms [50.00-700.00]



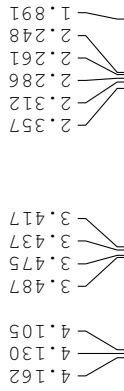
MT636-20101122-TN-MS #1-167 RT: 0.01-2.01 AV: 167 NL: 3.39E6
T: + c NSI Full ms [50.00-700.00]



MT636 3H NMR in MeOD
Batch 20101122-TN



BRUKER



NAME MT636-20101122-TN
EXPNO 1
PROCNO 1
Date_ 20101216
Time_ 19.44
INSTRUM spect
PROBHD 5 mm DUX 3H-1H
PULPROG zg
TD 16384
SOLVENT MeOD
NS 5000
DS 2
SWH 6172.839 Hz
FIDRES 0.376760 Hz
AQ 1.3271540 sec
RG 46341
DW 81.000 usec
DE 6.00 usec
TE 300.0 K
D1 2.00000000 sec
TD0 1

==== CHANNEL f1 =====
NUC1 3H
P1 10.00 usec
PL1 2.00 dB
SFO1 320.1321857 MHz
SI 32768
SF 320.1305850 MHz
WDW no
SSB 0
LB 0.00 Hz
GB 0
PC 1.00

