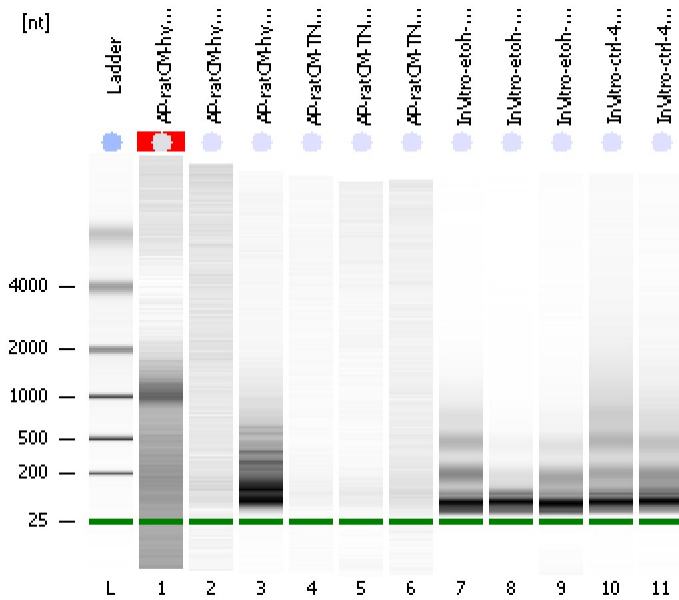


Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-31\2016-03-31\_001.xad

Created: 3/31/2016 10:23:36 AM  
Modified: 3/31/2016 11:45:13 AM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

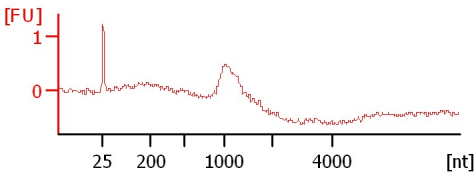
Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Eukaryote Total RNA Pico Series II.xsy  
Assay Class: Eukaryote Total RNA Pico  
Version: 2.6  
Assay Comments: Total RNA Analysis pg sensitivity (Eukaryote)  
© Copyright 2003 - 2009 Agilent Technologies, Inc.

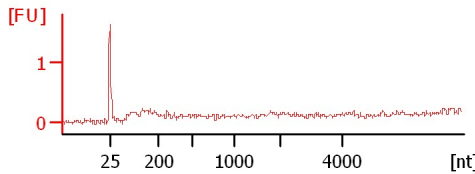
Chip Information:

Chip Lot #:   
Reagent Kit Lot #:   
Chip Comments:

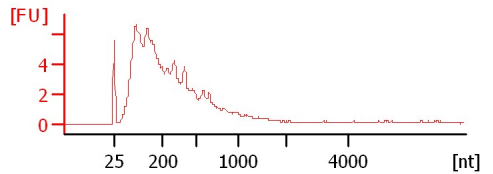
**AP-ratCM-hypo-1**  
RIN: N/A



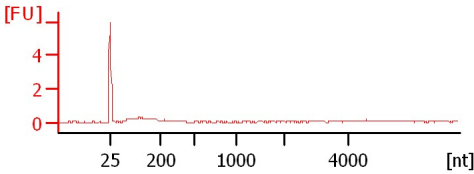
**AP-ratCM-hypo-3**  
RIN: 1.30



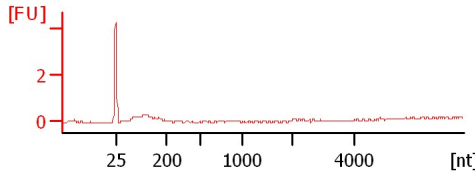
**AP-ratCM-hypo-4**  
RIN: 2.30



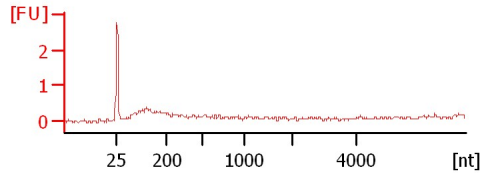
**AP-ratCM-TNF-1**  
RIN: 1



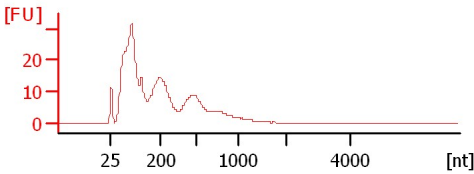
**AP-ratCM-TNF-2**  
RIN: 1



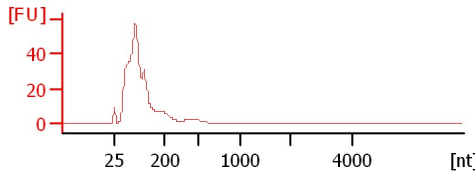
**AP-ratCM-TNF-3**  
RIN: 1.40



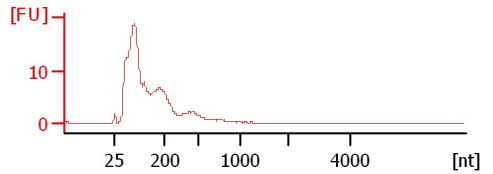
**InVtro-etoh-4hr-1**  
RIN: 2.20



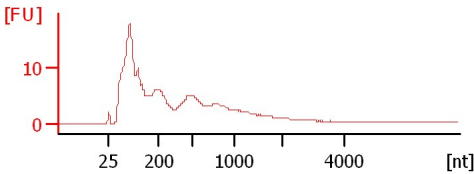
**InVtro-etoh-4hr-2**  
RIN: 2.50



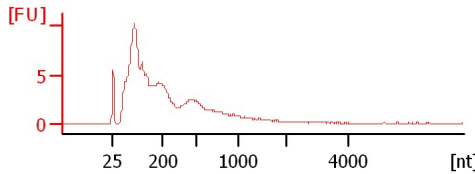
**InVtro-etoh-4hr-3**  
RIN: 2.40



**InVtro-ctrl-4hr-1**  
RIN: 2.10



**InVtro-ctrl-4hr-2**  
RIN: 2.30



Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-31\2016-03-31\_001.xad

Created: 3/31/2016 10:23:36 AM  
 Modified: 3/31/2016 11:45:13 AM

**Electrophoresis File Run Summary (Chip Summary)**

Sample Name	Sample Comment	Status	Result Label	Result Color
AP-ratCM-hypo-1		✓	RIN N/A	
AP-ratCM-hypo-3		✓	RIN: 1.30	
AP-ratCM-hypo-4		✓	RIN: 2.30	
AP-ratCM-TNF-1		✓	RIN:1	
AP-ratCM-TNF-2		✓	RIN:1	
AP-ratCM-TNF-3		✓	RIN: 1.40	
InVitro-etoh-4hr-1		✓	RIN: 2.20	
InVitro-etoh-4hr-2		✓	RIN: 2.50	
InVitro-etoh-4hr-3		✓	RIN: 2.40	
InVitro-ctrl-4hr-1		✓	RIN: 2.10	
InVitro-ctrl-4hr-2		✓	RIN: 2.30	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-31\2016-03-31\_001.xad

Created: 3/31/2016 10:23:36 AM  
Modified: 3/31/2016 11:45:13 AM

## Electrophoresis Assay Details

### General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 12

Minimum Visible Range [s] : 17

Maximum Visible Range [s] : 70

Start Analysis Time Range [s] : 18

End Analysis Time Range [s] : 69

Ladder Concentration [pg/ $\mu$ l] : 1000

Lower Marker Concentration [pg/ $\mu$ l] : 0

Upper Marker Concentration [pg/ $\mu$ l] : 0

Used Lower Marker for Quantitation

Standard Curve Fit is Logarithmic

Show Data Aligned to Lower Marker

### Integrator Settings

Integration Start Time [s] : 18

Integration End Time [s] : 69

Slope Threshold : 0.6

Height Threshold [FU] : 0.5

Area Threshold : 0.2

Width Threshold [s] : 0.3

Baseline Plateau [s] : 6

### Filter Settings

Filter Width [s] : 0.5

Polynomial Order : 4

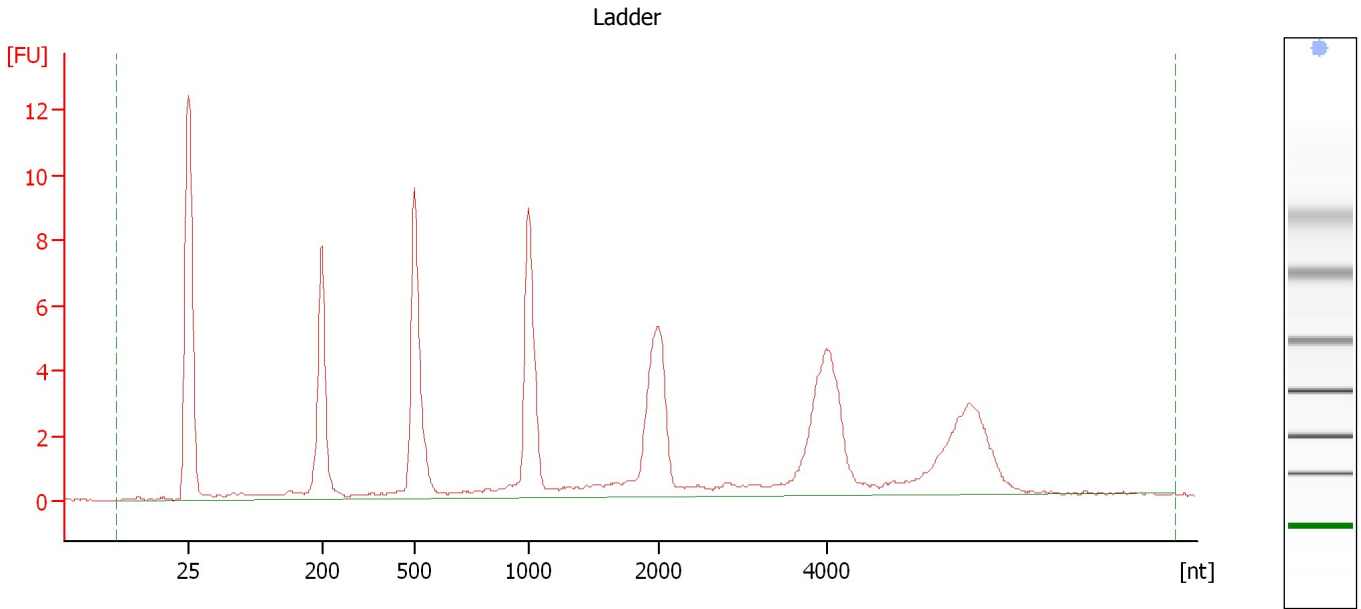
### Ladder

Ladder Peak	Size
1	25
2	200
3	500
4	1000
5	2000
6	4000

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-31\2016-03-31\_001.xad

Created: 3/31/2016 10:23:36 AM  
Modified: 3/31/2016 11:45:13 AM

**Electropherogram Summary**



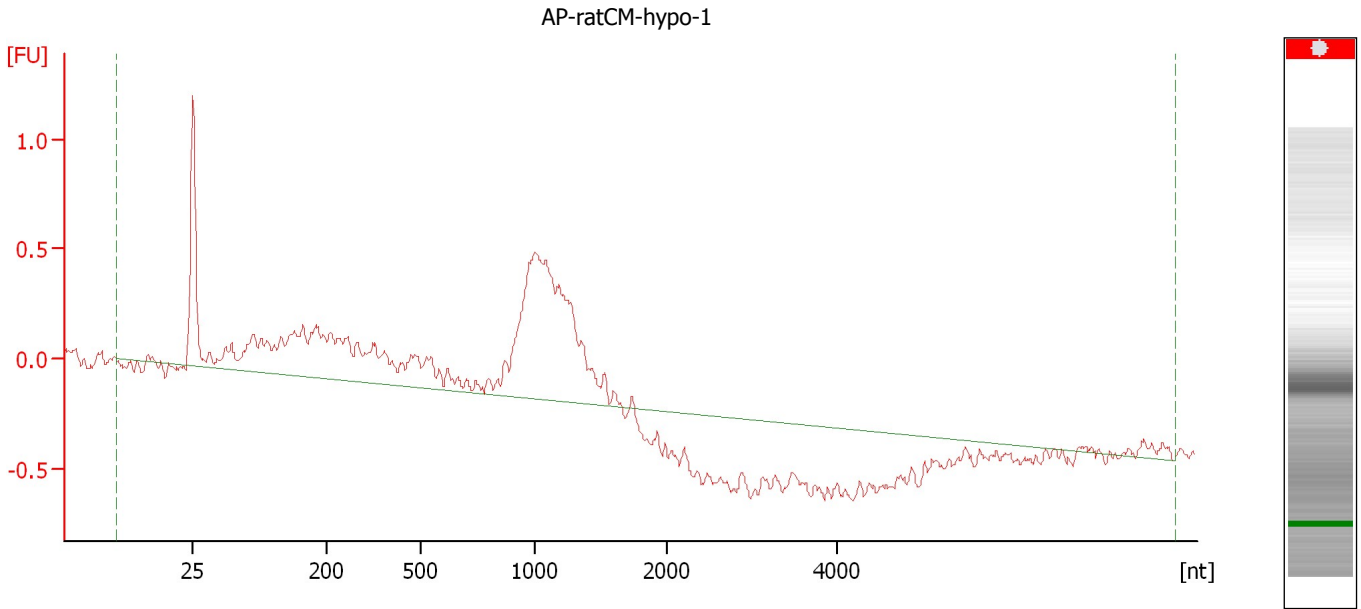
**Overall Results for Ladder**

RNA Area:	93.2	Result Flagging Color:	<span style="background-color: #add8e6; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
RNA Concentration:	1,000 pg/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-31\2016-03-31\_001.xad

Created: 3/31/2016 10:23:36 AM  
Modified: 3/31/2016 11:45:13 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : AP-ratCM-hypo-1**

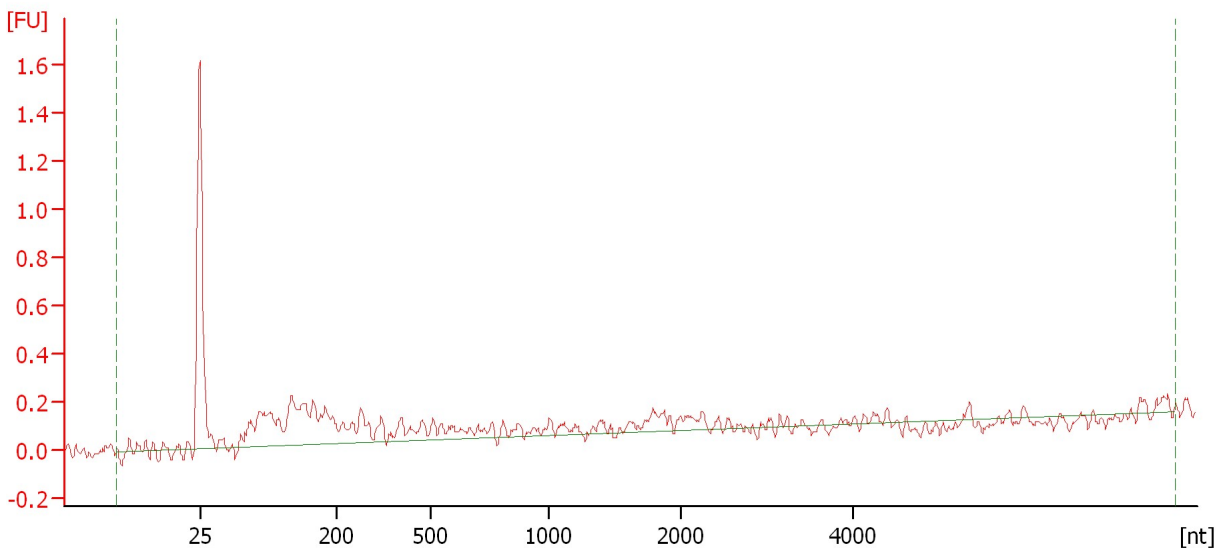
RNA Area:	10.4	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	112 pg/μl	Result Flagging Color:	<span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-31\2016-03-31\_001.xad

Created: 3/31/2016 10:23:36 AM  
Modified: 3/31/2016 11:45:13 AM

**Electropherogram Summary Continued ...**

AP-ratCM-hypo-3



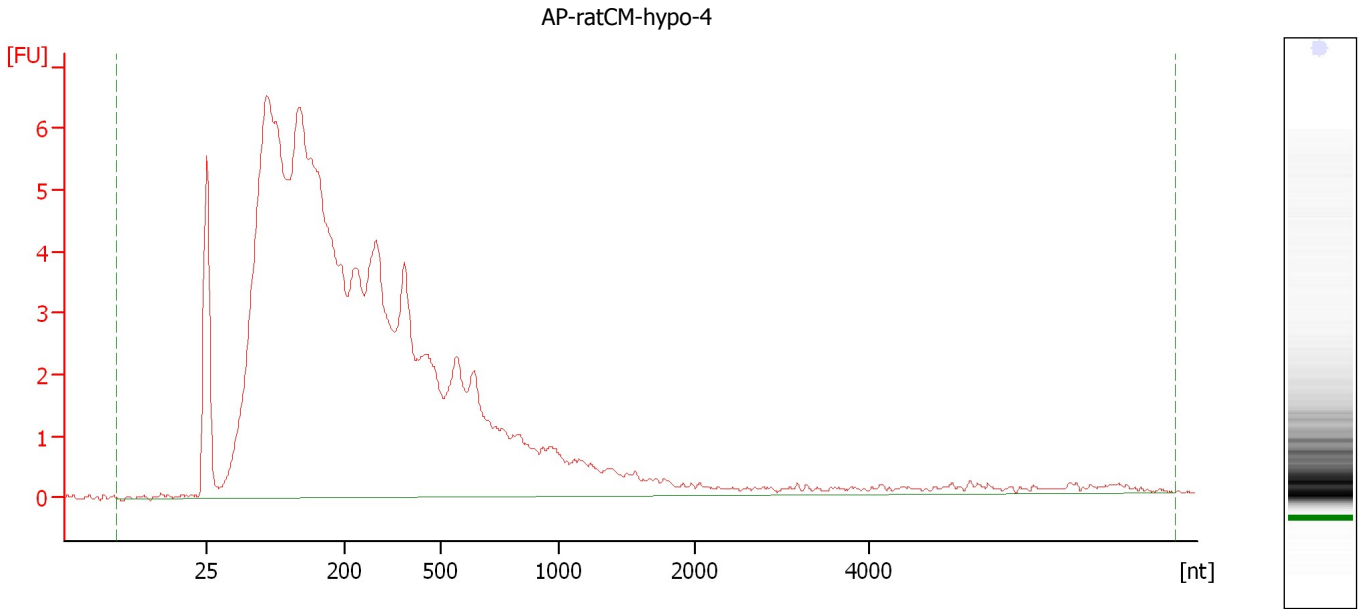
**Overall Results for sample 2 : AP-ratCM-hypo-3**

RNA Area:	4.6	RNA Integrity Number (RIN):	1.3 (B.02.08)
RNA Concentration:	49 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 1.30

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-31\2016-03-31\_001.xad

Created: 3/31/2016 10:23:36 AM  
Modified: 3/31/2016 11:45:13 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : AP-ratCM-hypo-4**

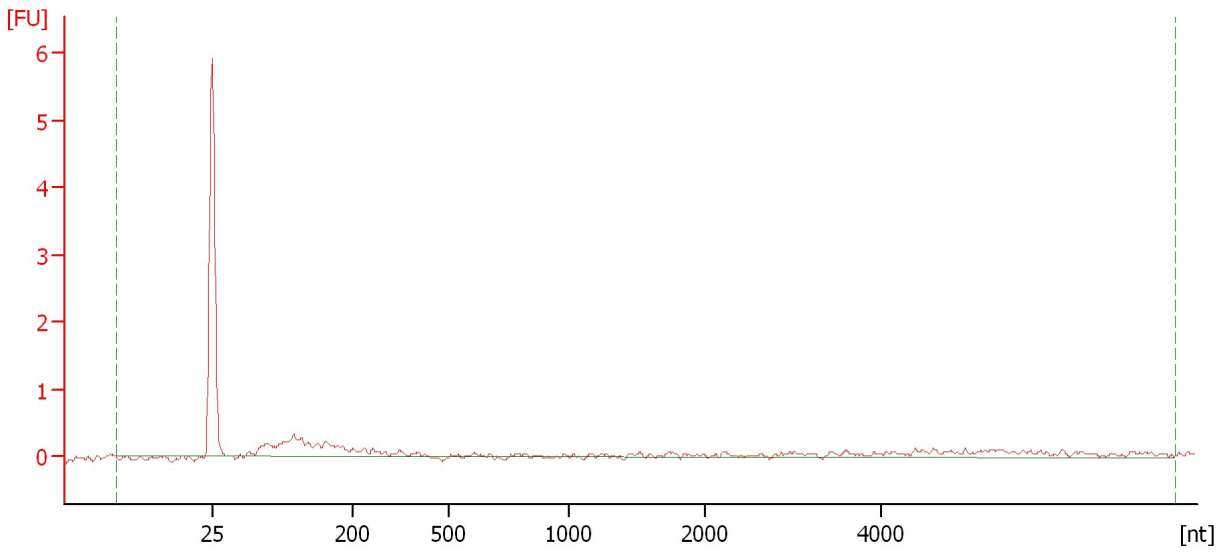
RNA Area:	158.3	RNA Integrity Number (RIN):	2.3 (B.02.08)
RNA Concentration:	1,699 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.30

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-31\2016-03-31\_001.xad

Created: 3/31/2016 10:23:36 AM  
Modified: 3/31/2016 11:45:13 AM

**Electropherogram Summary Continued ...**

AP-ratCM-TNF-1



**Overall Results for sample 4 : AP-ratCM-TNF-1**

RNA Area:	6.2	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	66 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:1

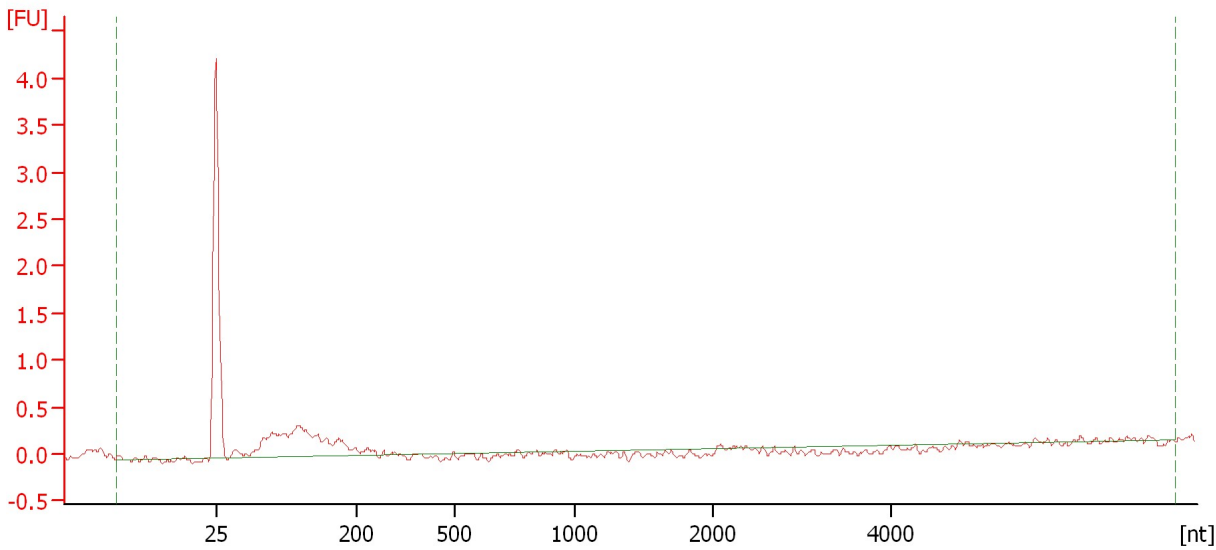


Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-31\2016-03-31\_001.xad

Created: 3/31/2016 10:23:36 AM  
Modified: 3/31/2016 11:45:13 AM

**Electropherogram Summary Continued ...**

AP-ratCM-TNF-2



**Overall Results for sample 5 : AP-ratCM-TNF-2**

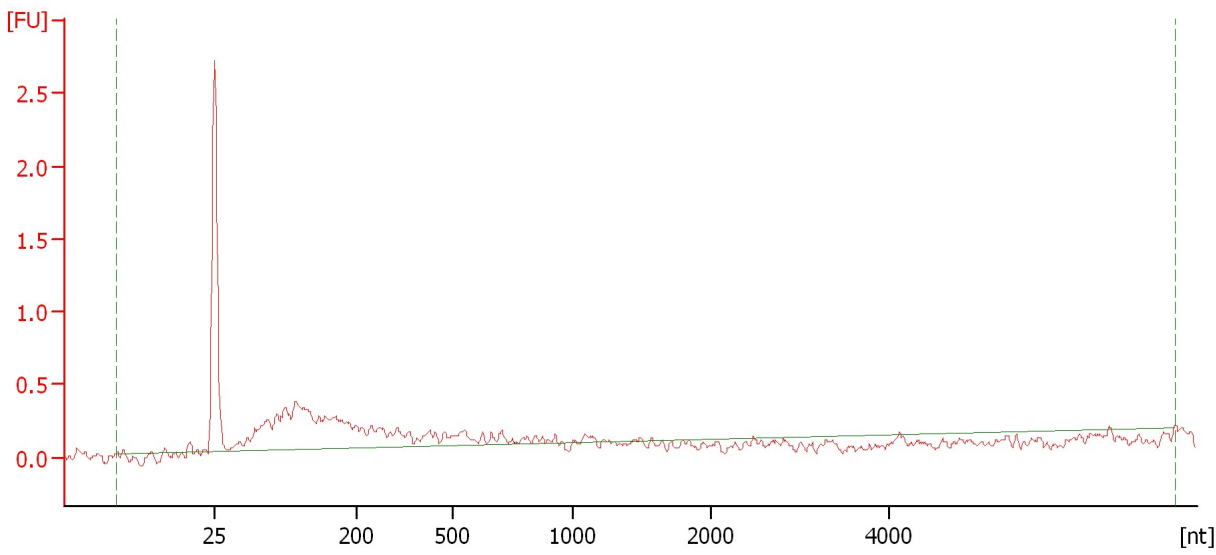
RNA Area:	3.7	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	40 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:1

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-31\2016-03-31\_001.xad

Created: 3/31/2016 10:23:36 AM  
Modified: 3/31/2016 11:45:13 AM

**Electropherogram Summary Continued ...**

AP-ratCM-TNF-3



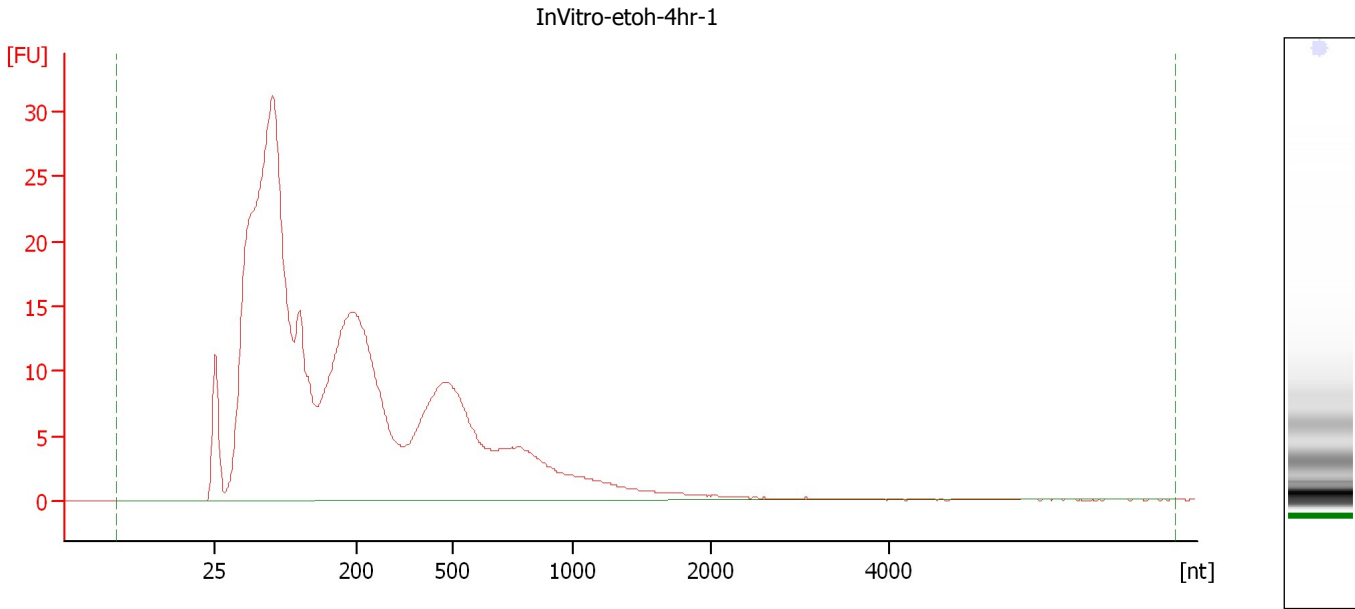
**Overall Results for sample 6 : AP-ratCM-TNF-3**

RNA Area:	6.1	RNA Integrity Number (RIN):	1.4 (B.02.08)
RNA Concentration:	66 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 1.40

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-31\2016-03-31\_001.xad

Created: 3/31/2016 10:23:36 AM  
Modified: 3/31/2016 11:45:13 AM

**Electropherogram Summary Continued ...**



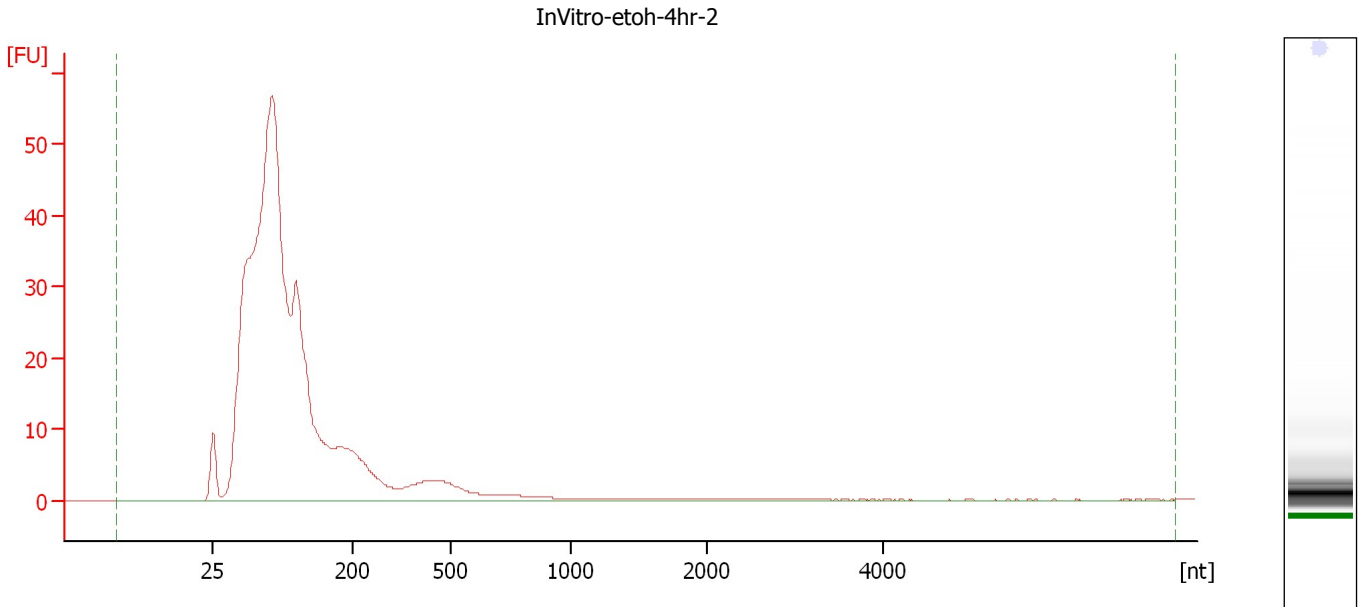
**Overall Results for sample 7 : InVitro-etoh-4hr-1**

RNA Area:	522.2	RNA Integrity Number (RIN):	2.2 (B.02.08)
RNA Concentration:	5,606 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.20

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-31\2016-03-31\_001.xad

Created: 3/31/2016 10:23:36 AM  
Modified: 3/31/2016 11:45:13 AM

**Electropherogram Summary Continued ...**



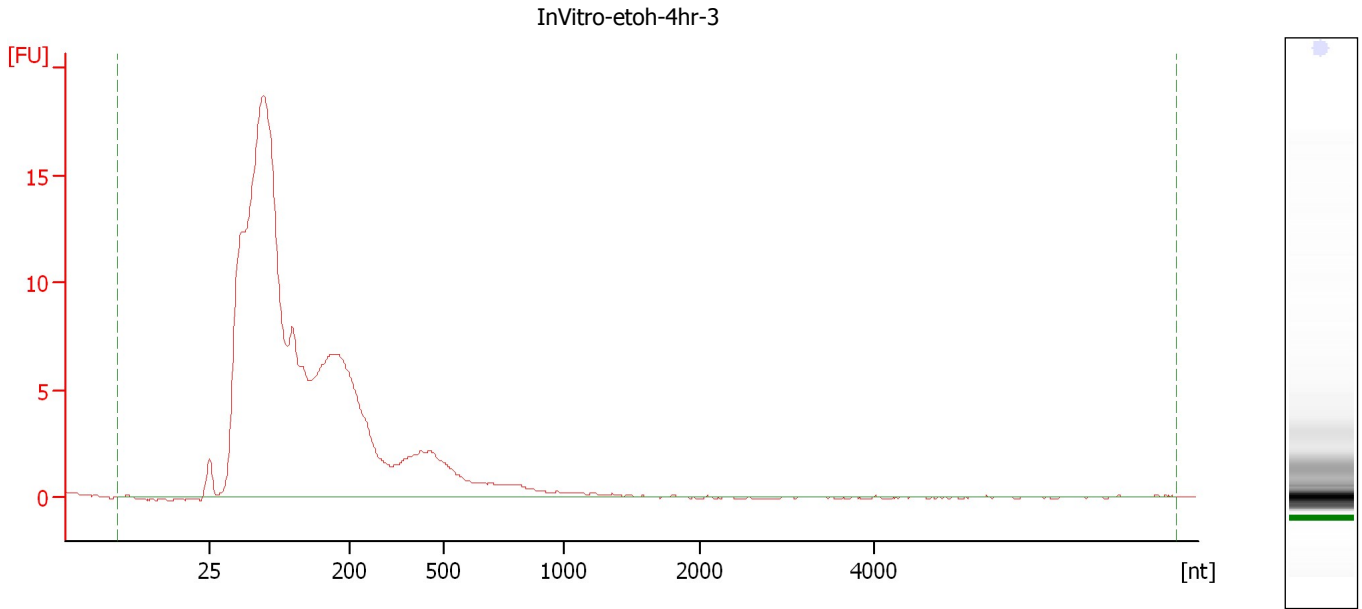
**Overall Results for sample 8 : InVitro-etoh-4hr-2**

RNA Area:	571.9	RNA Integrity Number (RIN):	2.5 (B.02.08)
RNA Concentration:	6,140 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.50

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-31\2016-03-31\_001.xad

Created: 3/31/2016 10:23:36 AM  
Modified: 3/31/2016 11:45:13 AM

**Electropherogram Summary Continued ...**



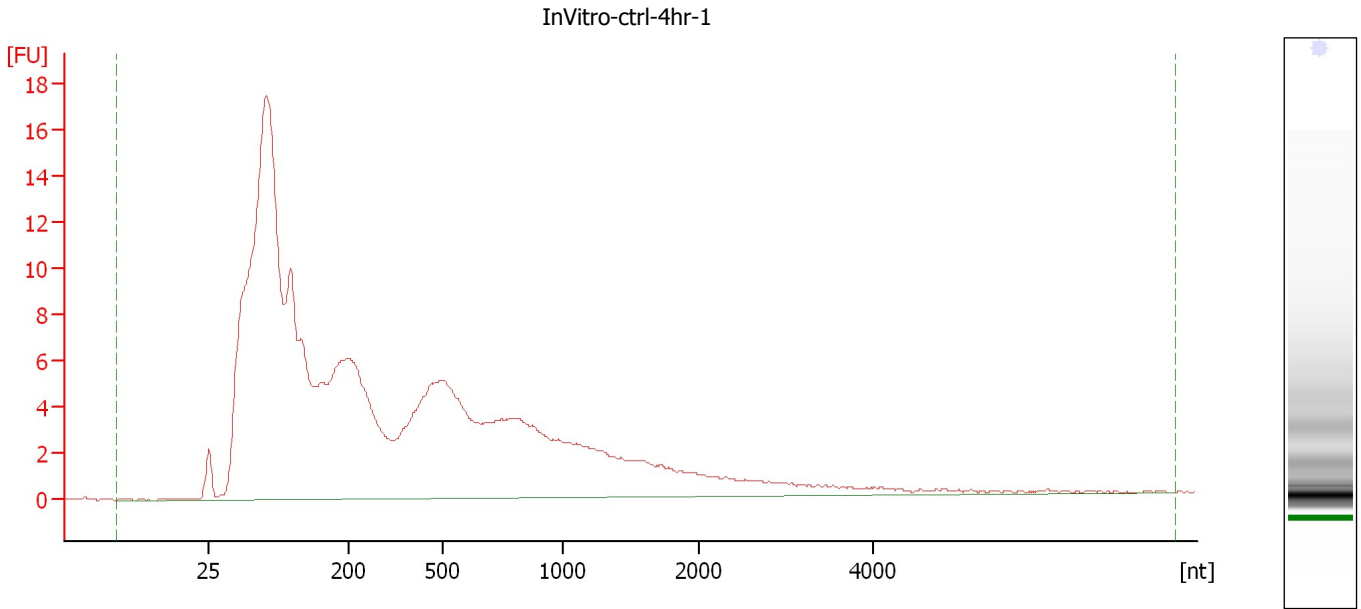
**Overall Results for sample 9 : InVitro-etoh-4hr-3**

RNA Area:	239.5	RNA Integrity Number (RIN):	2.4 (B.02.08)
RNA Concentration:	2,571 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.40

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-31\2016-03-31\_001.xad

Created: 3/31/2016 10:23:36 AM  
Modified: 3/31/2016 11:45:13 AM

**Electropherogram Summary Continued ...**



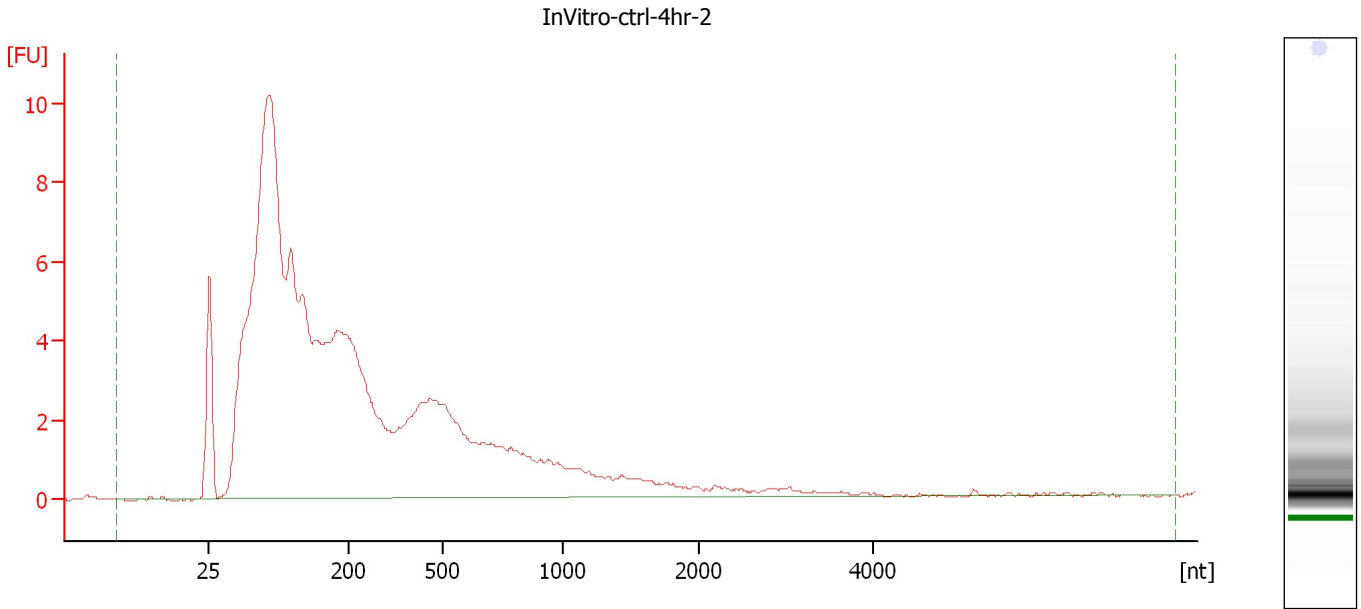
**Overall Results for sample 10 : InVitro-ctrl-4hr-1**

RNA Area:	314.0	RNA Integrity Number (RIN):	2.1 (B.02.08)
RNA Concentration:	3,371 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.10

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-31\2016-03-31\_001.xad

Created: 3/31/2016 10:23:36 AM  
Modified: 3/31/2016 11:45:13 AM

**Electropherogram Summary Continued ...**



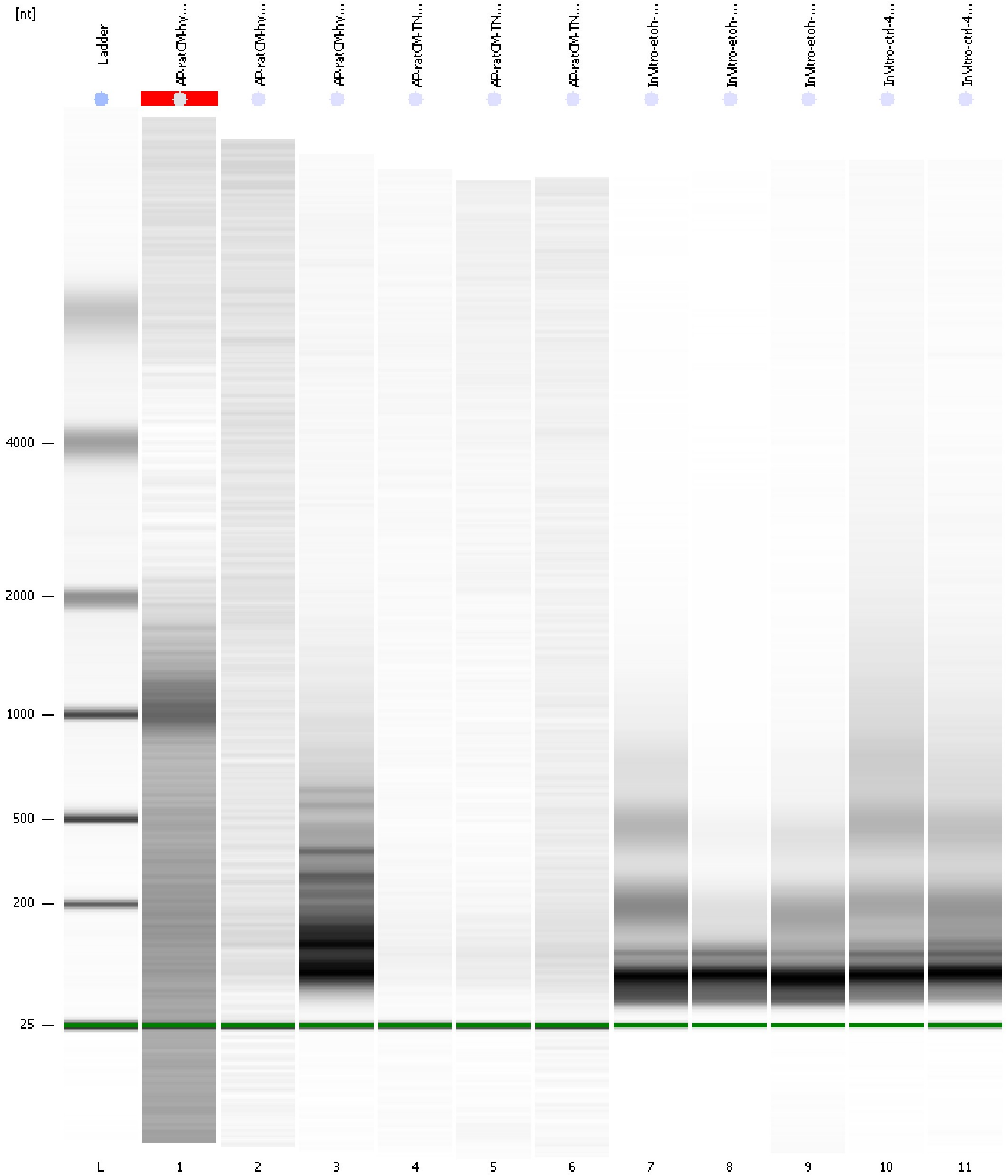
**Overall Results for sample 11 : InVitro-ctrl-4hr-2**

RNA Area:	167.9	RNA Integrity Number (RIN):	2.3 (B.02.08)
RNA Concentration:	1,803 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.30

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-31\2016-03-31\_001.xad

Created: 3/31/2016 10:23:36 AM  
Modified: 3/31/2016 11:45:13 AM

**Gel Image**



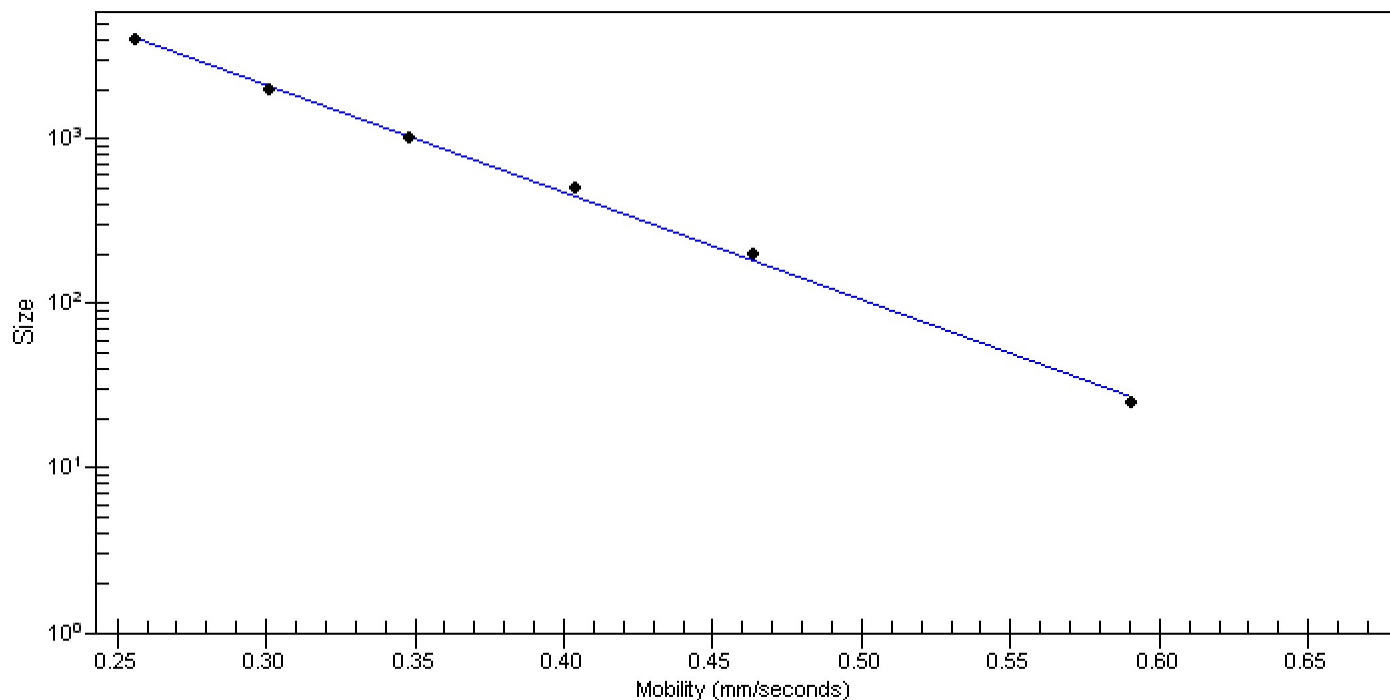


Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-31\2016-03-31\_001.xad

Created: 3/31/2016 10:23:36 AM  
Modified: 3/31/2016 11:45:13 AM

**Curves**

**Standard Curve**



Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-31\2016-03-31\_001.xad

Created: 3/31/2016 10:23:36 AM  
 Modified: 3/31/2016 11:45:13 AM

**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		3/31/2016 10:46:29 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-03-31\2016-03-31_001.xad)		Instrument	Run		3/31/2016 10:23:42 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		3/31/2016 10:23:42 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/31/2016 10:23:42 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/31/2016 10:23:42 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		3/31/2016 10:23:42 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/31/2016 10:23:42 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/31/2016 10:23:42 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1