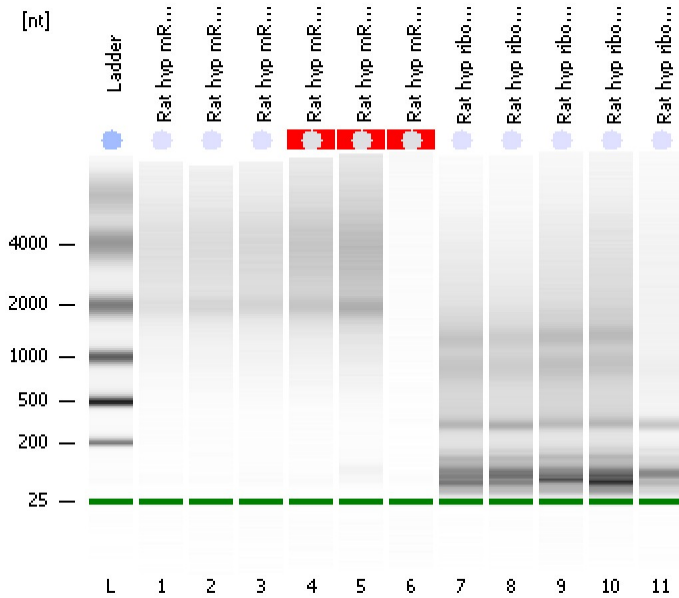


Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-18\2014-09-18\_001.xad

Created: 9/18/2014 10:01:19 AM  
Modified: 9/18/2014 10:31:21 AM

Electrophoresis File Run Summary



Instrument Information:

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

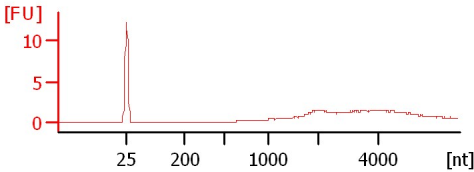
Assay Information:

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.

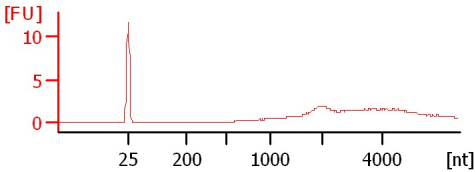
Chip Information:

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

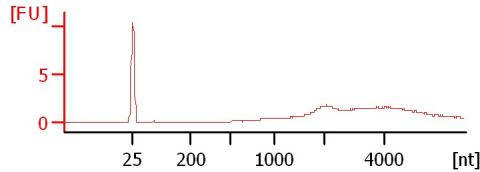
**Rat hyp mRNA H1m**  
RIN: 1.10



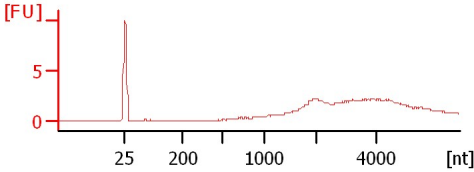
**Rat hyp mRNA H5M**  
RIN: 1.30



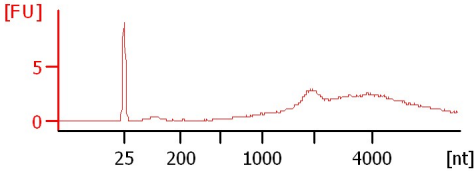
**Rat hyp mRNA H7M**  
RIN: 1.40



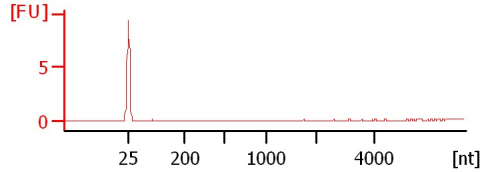
**Rat hyp mRNA NH4M**  
RIN N/A



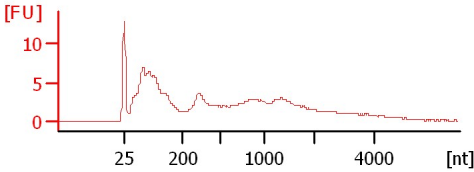
**Rat hyp mRNA NH3M**  
RIN N/A



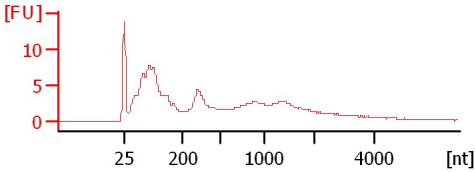
**Rat hyp mRNA NH6M**  
RIN N/A



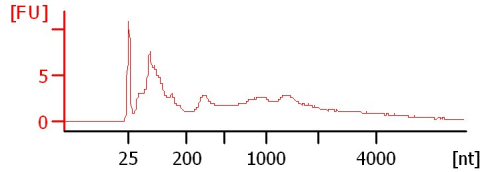
**Rat hyp ribodep H1M**  
RIN: 2.50



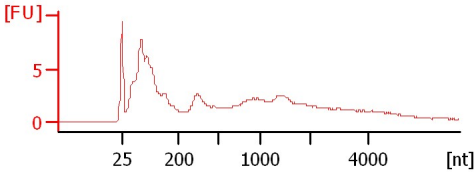
**Rat hyp ribodep H5M**  
RIN: 2.40



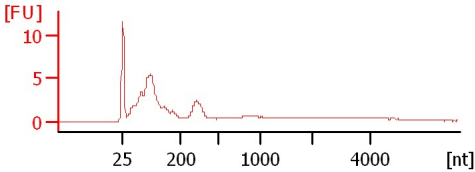
**Rat hyp ribodep H7M**  
RIN: 2.90



**Rat hyp ribodep NH3M**  
RIN: 2.80



**Rat hyp ribodep NH4M**  
RIN: 2.50



Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-18\2014-09-18\_001.xad

Created: 9/18/2014 10:01:19 AM  
Modified: 9/18/2014 10:31:21 AM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
Rat hyp mRNA H1m		✓	RIN: 1.10	
Rat hyp mRNA H5M		✓	RIN: 1.30	
Rat hyp mRNA H7M		✓	RIN: 1.40	
Rat hyp mRNA NH4M		✓	RIN N/A	
Rat hyp mRNA NH3M		✓	RIN N/A	
Rat hyp mRNA NH6M		✓	RIN N/A	
Rat hyp ribodep H1M		✓	RIN: 2.50	
Rat hyp ribodep H5M		✓	RIN: 2.40	
Rat hyp ribodep H7M		✓	RIN: 2.90	
Rat hyp ribodep NH3M		✓	RIN: 2.80	
Rat hyp ribodep NH4M		✓	RIN: 2.50	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-18\2014-09-18\_001.xad

Created: 9/18/2014 10:01:19 AM  
Modified: 9/18/2014 10:31:21 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

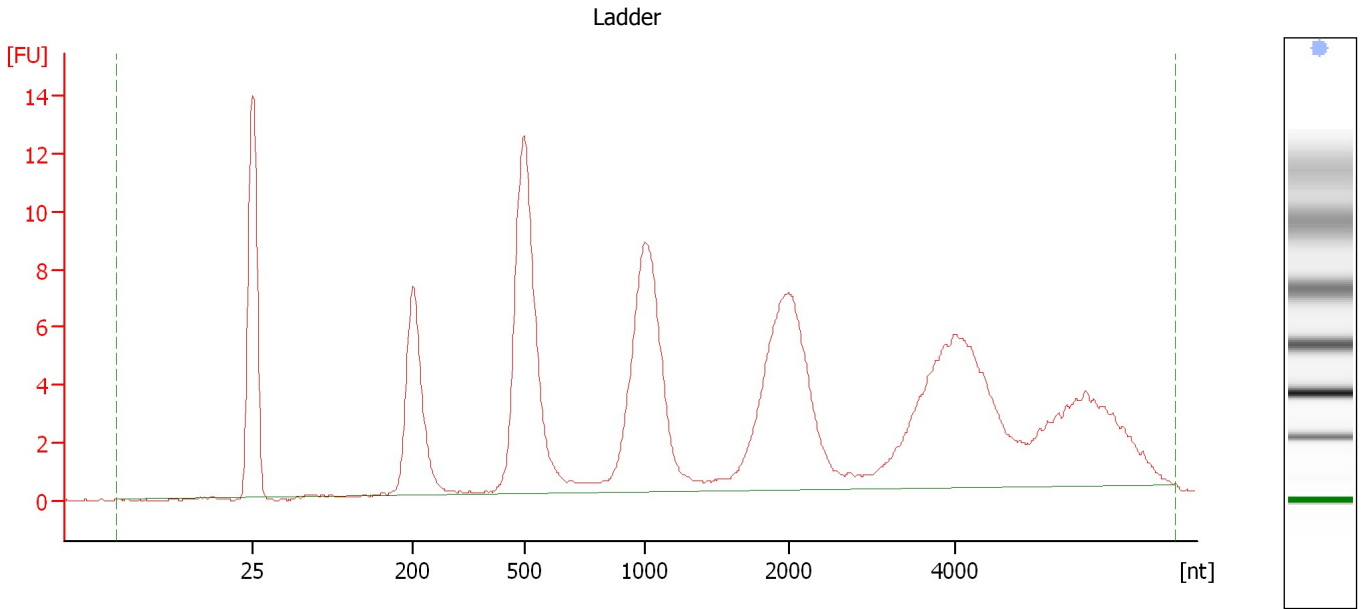
### Ladder

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

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-18\2014-09-18\_001.xad

Created: 9/18/2014 10:01:19 AM  
Modified: 9/18/2014 10:31:21 AM

**Electropherogram Summary**



**Overall Results for Ladder**

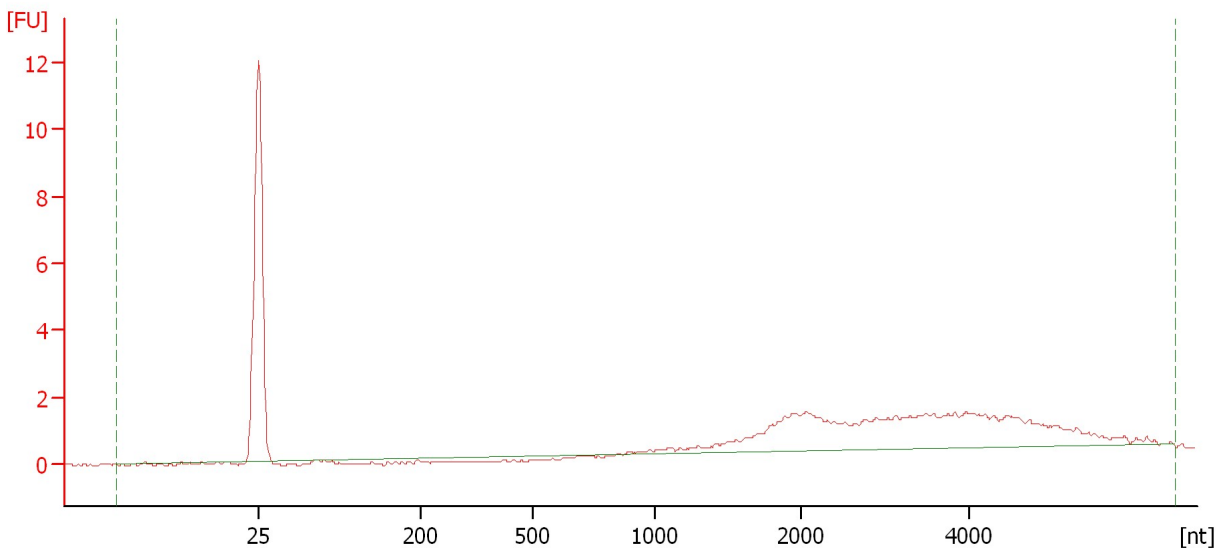
RNA Area:	181.2	Result Flagging Color:	<span style="background-color: #add8e6; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
RNA Concentration:	1,000 pg/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-18\2014-09-18\_001.xad

Created: 9/18/2014 10:01:19 AM  
Modified: 9/18/2014 10:31:21 AM

**Electropherogram Summary Continued ...**

Rat hyp mRNA H1m



**Overall Results for sample 1 : Rat hyp mRNA H1m**

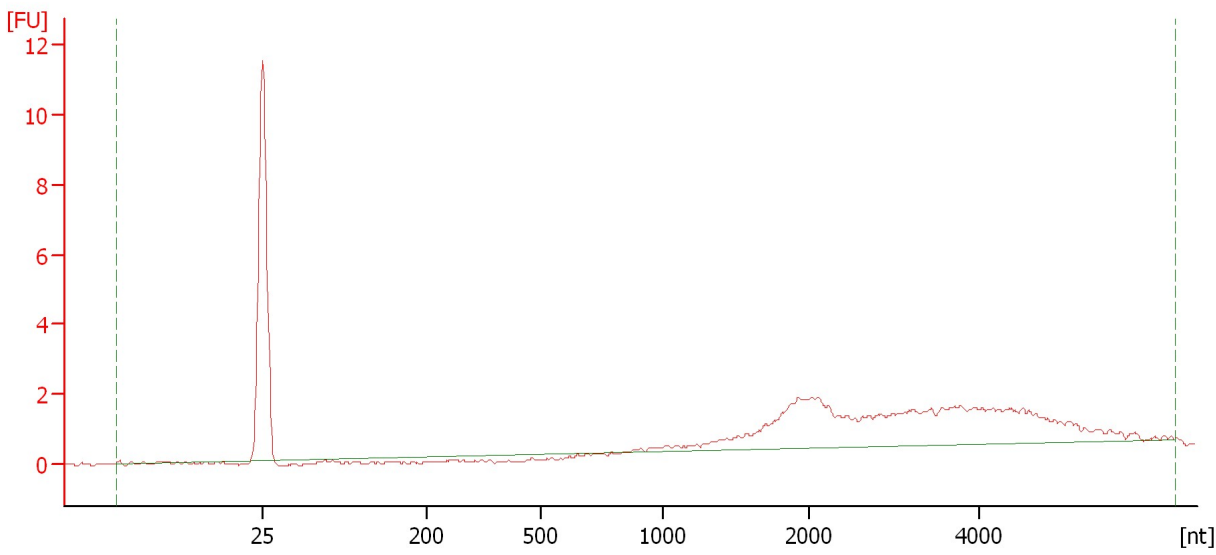
RNA Area:	27.1	RNA Integrity Number (RIN):	1.1 (B.02.08)
RNA Concentration:	150 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 1.10

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-18\2014-09-18\_001.xad

Created: 9/18/2014 10:01:19 AM  
Modified: 9/18/2014 10:31:21 AM

**Electropherogram Summary Continued ...**

Rat hyp mRNA H5M



**Overall Results for sample 2 : Rat hyp mRNA H5M**

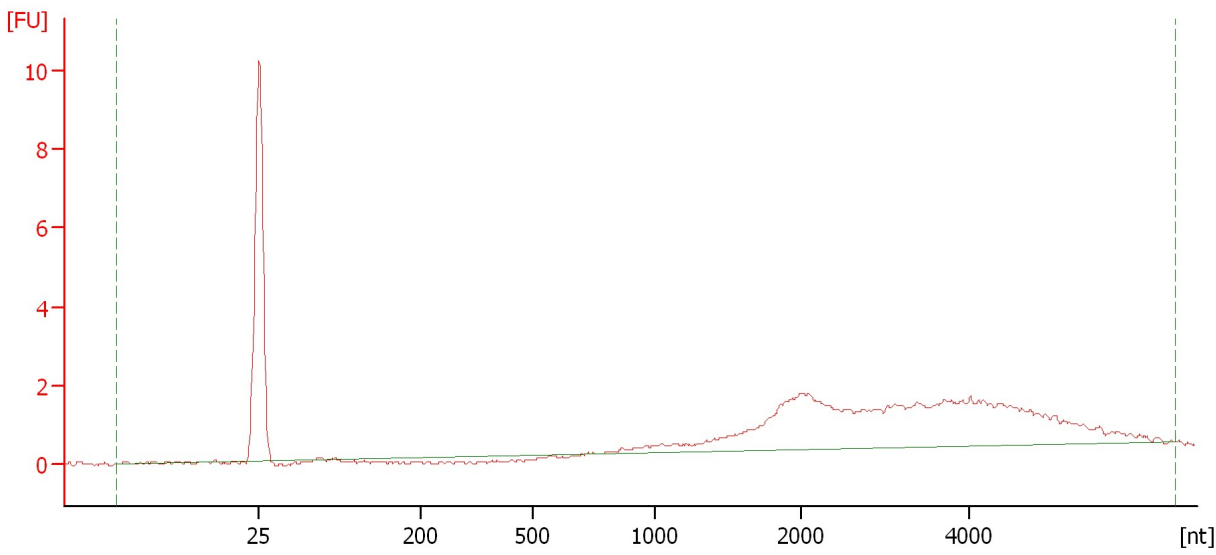
RNA Area:	28.2	RNA Integrity Number (RIN):	1.3 (B.02.08)
RNA Concentration:	156 µg/µl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 1.30

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-18\2014-09-18\_001.xad

Created: 9/18/2014 10:01:19 AM  
Modified: 9/18/2014 10:31:21 AM

**Electropherogram Summary Continued ...**

Rat hyp mRNA H7M



**Overall Results for sample 3 : Rat hyp mRNA H7M**

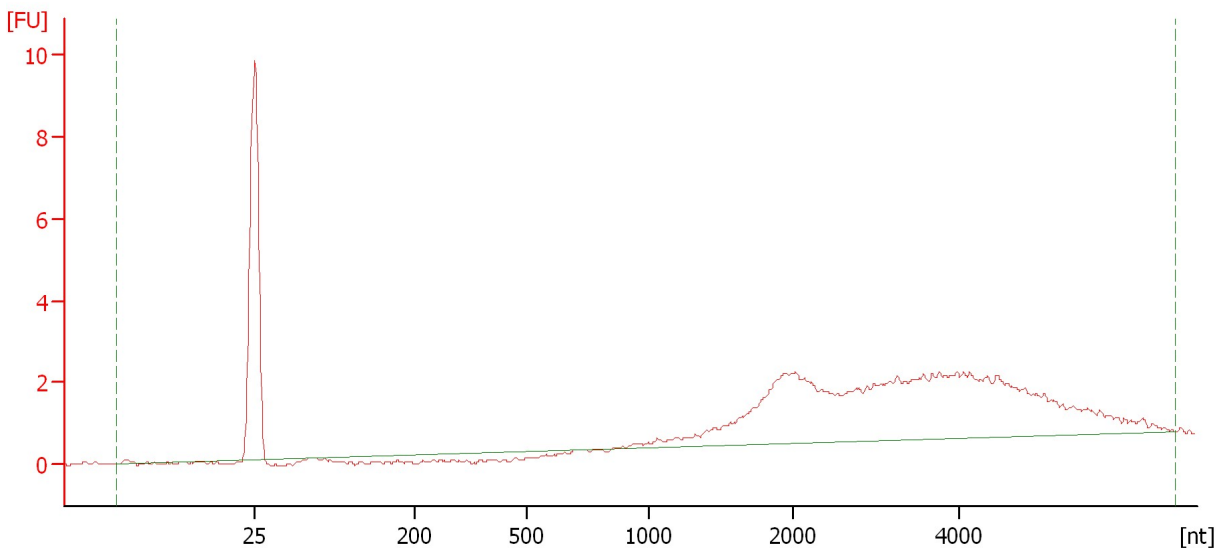
RNA Area:	30.8	RNA Integrity Number (RIN):	1.4 (B.02.08)
RNA Concentration:	170 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 1.40

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-18\2014-09-18\_001.xad

Created: 9/18/2014 10:01:19 AM  
Modified: 9/18/2014 10:31:21 AM

**Electropherogram Summary Continued ...**

Rat hyp mRNA NH4M



**Overall Results for sample 4 : Rat hyp mRNA NH4M**

RNA Area:	40.8	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	225 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

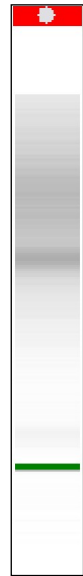
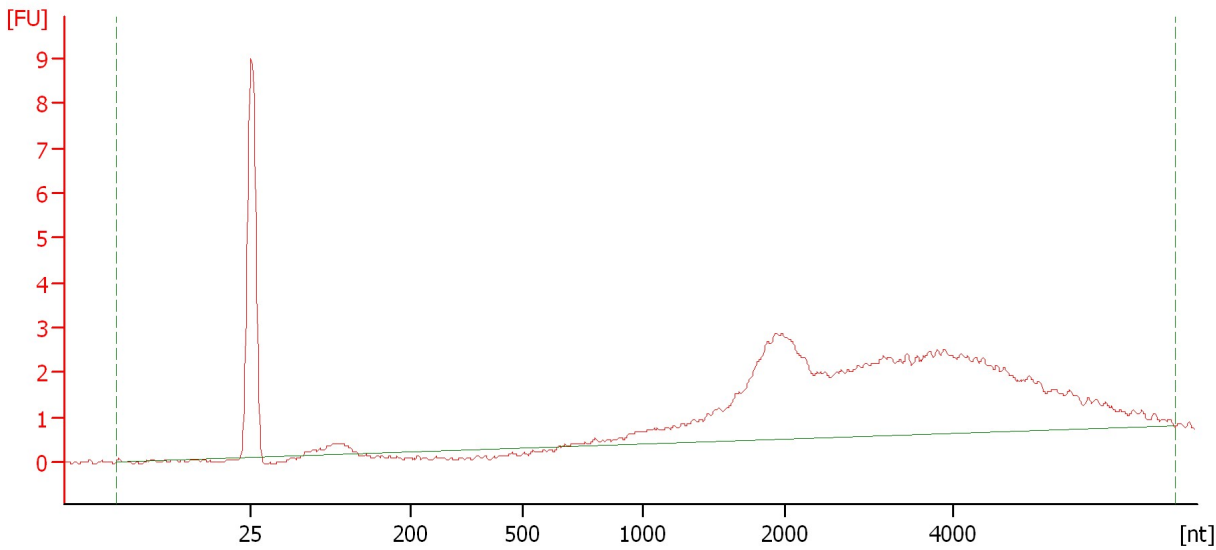


Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-18\2014-09-18\_001.xad

Created: 9/18/2014 10:01:19 AM  
Modified: 9/18/2014 10:31:21 AM

**Electropherogram Summary Continued ...**

Rat hyp mRNA NH3M



**Overall Results for sample 5 : Rat hyp mRNA NH3M**

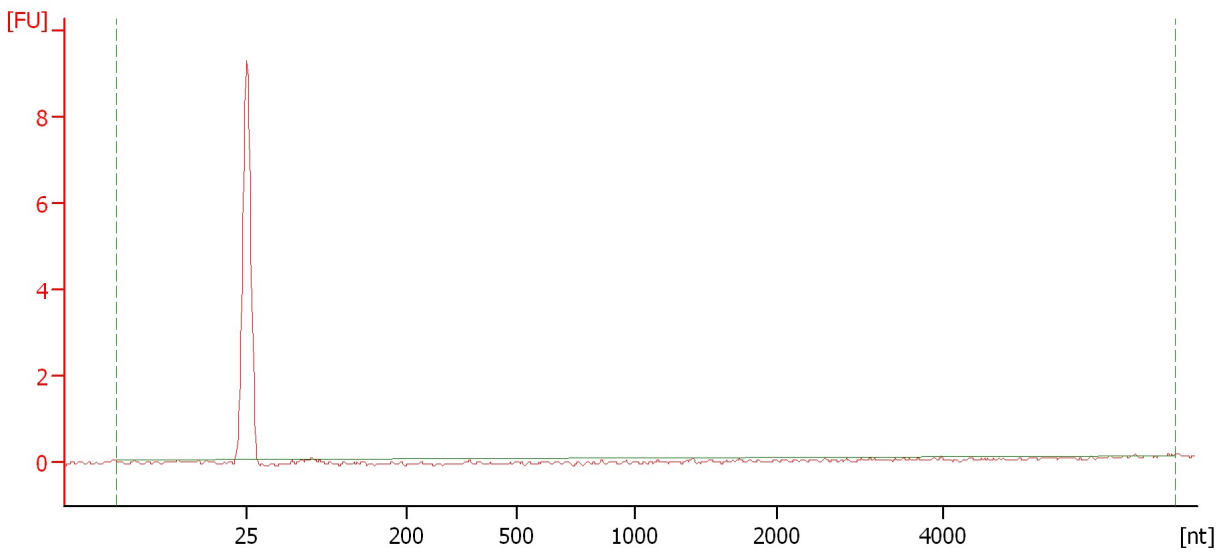
RNA Area:	53.2	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	294 µg/µl	Result Flagging Color:	<span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-18\2014-09-18\_001.xad

Created: 9/18/2014 10:01:19 AM  
Modified: 9/18/2014 10:31:21 AM

**Electropherogram Summary Continued ...**

Rat hyp mRNA NH6M



**Overall Results for sample 6 : Rat hyp mRNA NH6M**

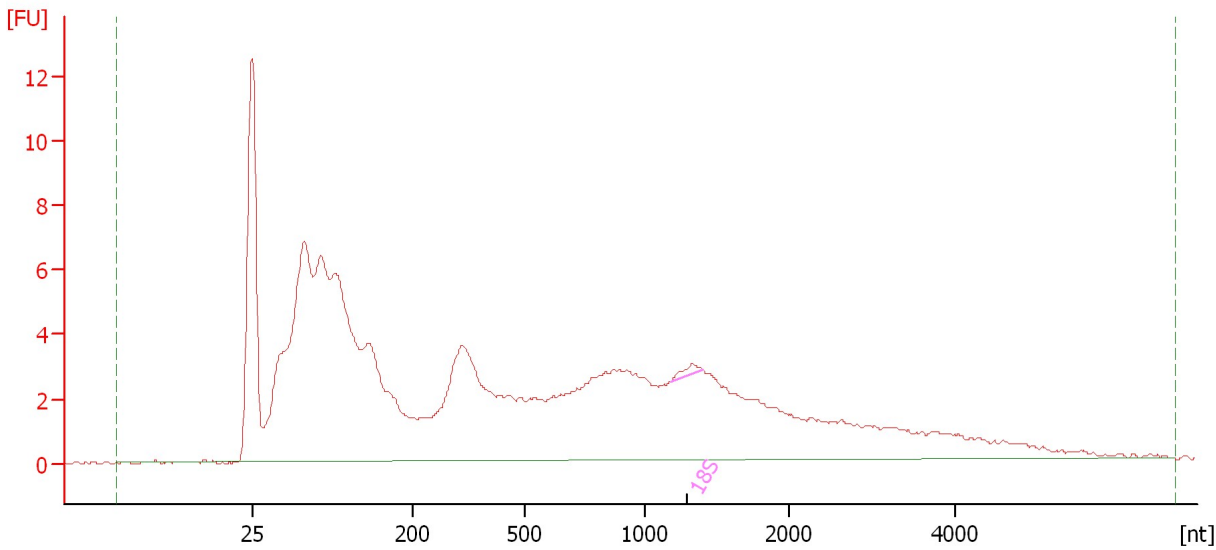
RNA Area:	0.0	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	0 pg/μl	Result Flagging Color:	<span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-18\2014-09-18\_001.xad

Created: 9/18/2014 10:01:19 AM  
Modified: 9/18/2014 10:31:21 AM

**Electropherogram Summary Continued ...**

Rat hyp ribodep H1M



**Overall Results for sample 7 : Rat hyp ribodep H1M**

RNA Area:	205.6	RNA Integrity Number (RIN):	2.5 (B.02.08)
RNA Concentration:	1,135 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

**Fragment table for sample 7 : Rat hyp ribodep H1M**

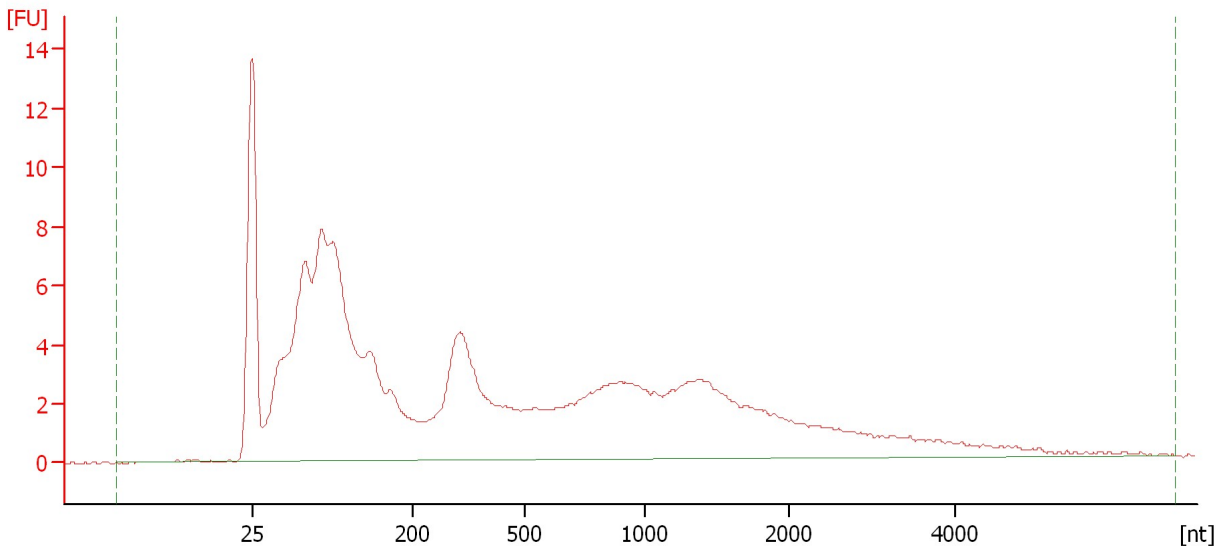
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,179	1,410	0.6	0.3

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-18\2014-09-18\_001.xad

Created: 9/18/2014 10:01:19 AM  
Modified: 9/18/2014 10:31:21 AM

**Electropherogram Summary Continued ...**

Rat hyp ribodep H5M



**Overall Results for sample 8 : Rat hyp ribodep H5M**

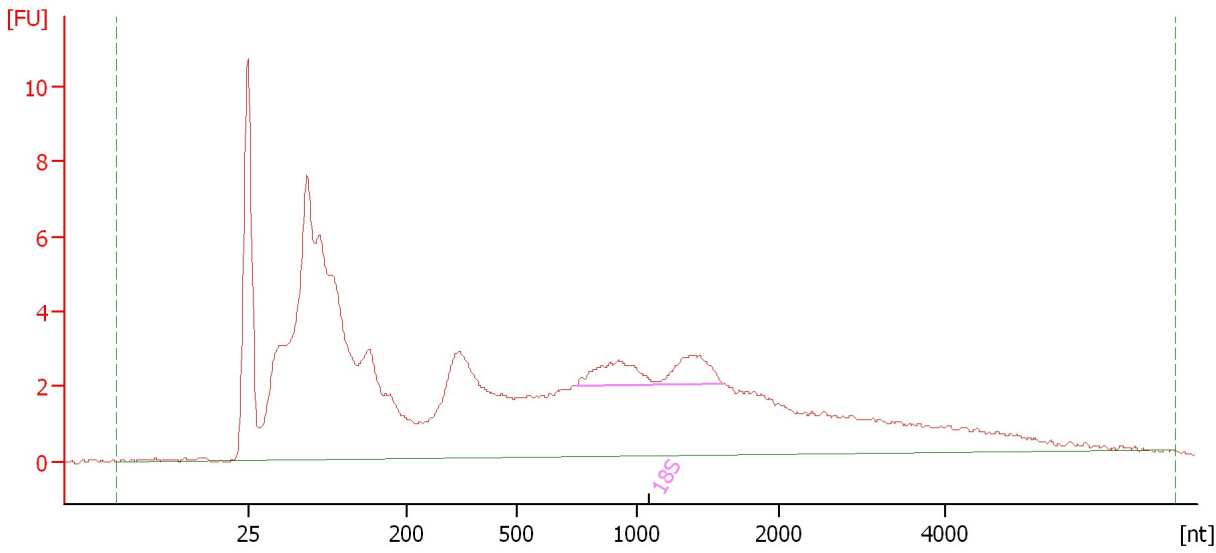
RNA Area:	203.6	RNA Integrity Number (RIN):	2.4 (B.02.08)
RNA Concentration:	1,124 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.40

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-18\2014-09-18\_001.xad

Created: 9/18/2014 10:01:19 AM  
Modified: 9/18/2014 10:31:21 AM

**Electropherogram Summary Continued ...**

Rat hyp ribodep H7M



**Overall Results for sample 9 : Rat hyp ribodep H7M**

RNA Area:	177.0	RNA Integrity Number (RIN):	2.9 (B.02.08)
RNA Concentration:	977 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: 2.90

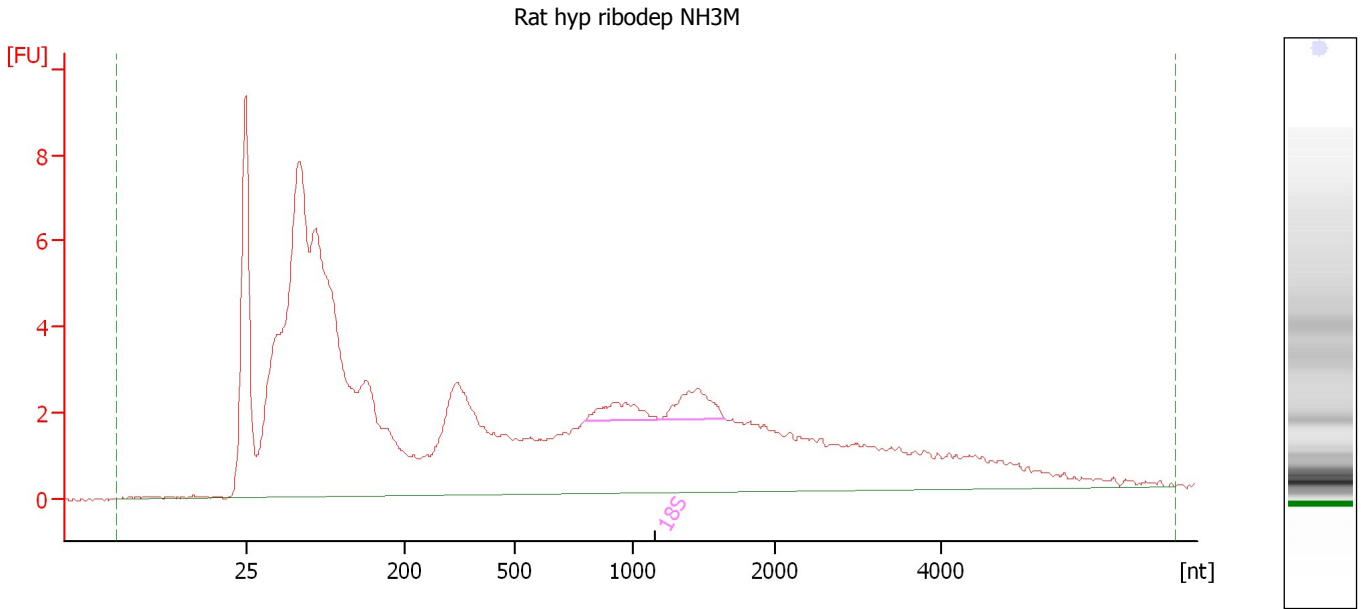
**Fragment table for sample 9 : Rat hyp ribodep H7M**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	745	1,600	6.2	3.5

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-18\2014-09-18\_001.xad

Created: 9/18/2014 10:01:19 AM  
Modified: 9/18/2014 10:31:21 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : Rat hyp ribodep NH3M**

RNA Area:	176.2	RNA Integrity Number (RIN):	2.8 (B.02.08)
RNA Concentration:	972 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: 2.80

**Fragment table for sample 10 : Rat hyp ribodep NH3M**

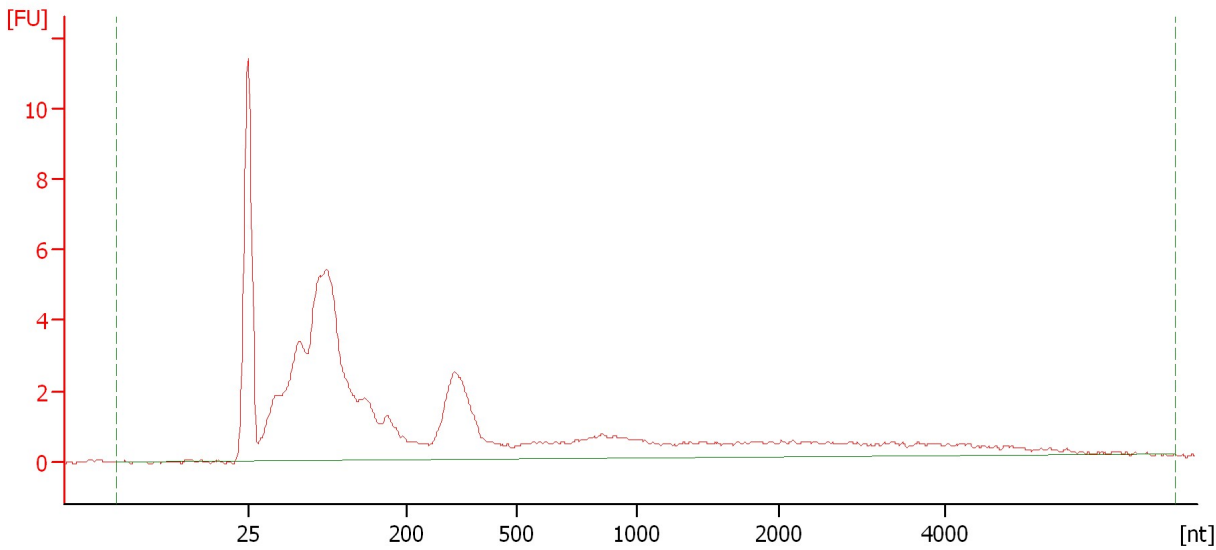
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	790	1,643	4.8	2.7

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-18\2014-09-18\_001.xad

Created: 9/18/2014 10:01:19 AM  
Modified: 9/18/2014 10:31:21 AM

**Electropherogram Summary Continued ...**

Rat hyp ribodep NH4M



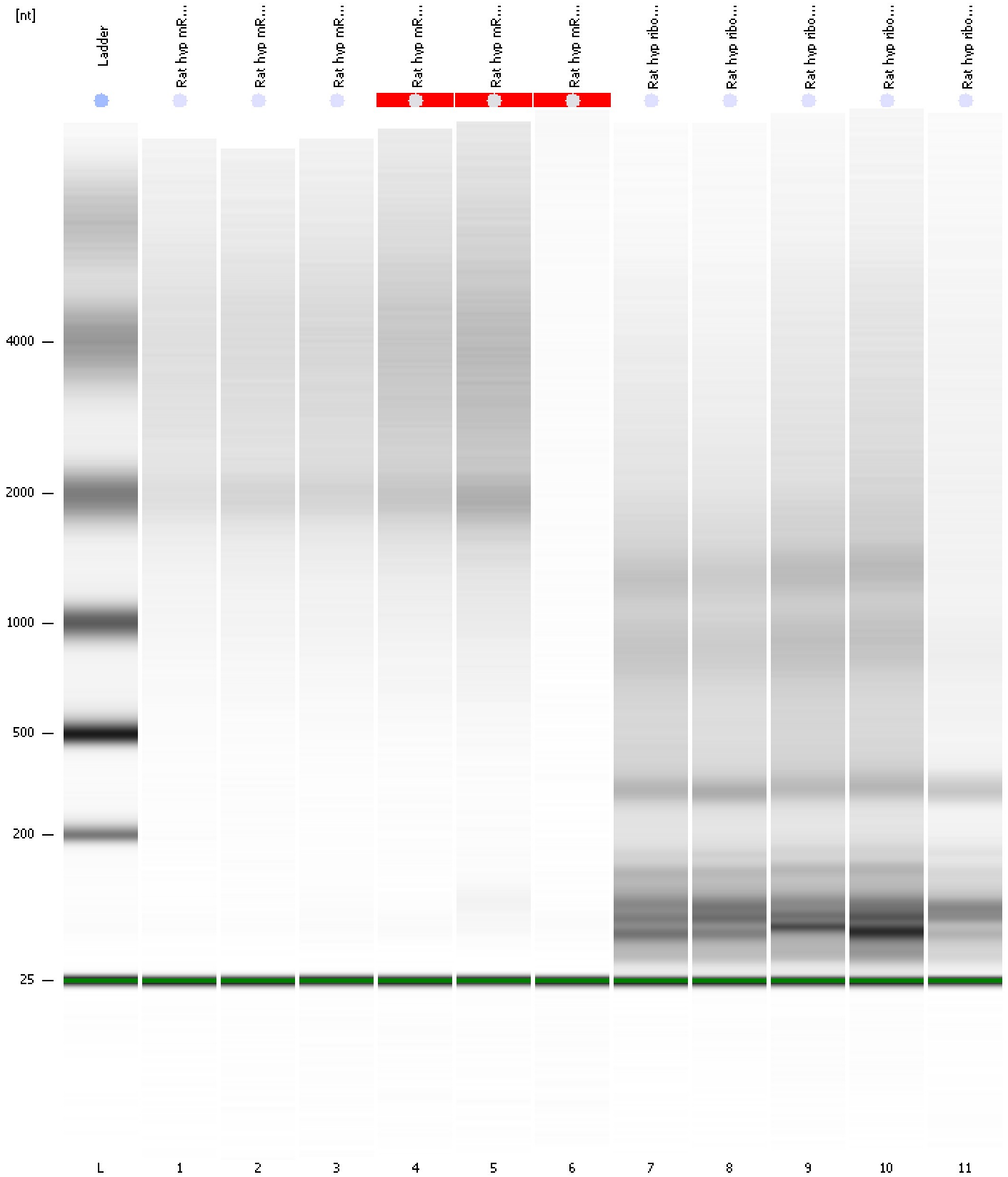
**Overall Results for sample 11 : Rat hyp ribodep NH4M**

RNA Area:	91.0	RNA Integrity Number (RIN):	2.5 (B.02.08)
RNA Concentration:	502 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:\...ents and Settings\Bioanalyzer\2014-09-18\2014-09-18\_001.xad

Created: 9/18/2014 10:01:19 AM  
Modified: 9/18/2014 10:31:21 AM

**Gel Image**





Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-18\2014-09-18\_001.xad

Created: 9/18/2014 10:01:19 AM  
 Modified: 9/18/2014 10:31:21 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		9/18/2014 10:24:15 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-09-18\2014-09-18_001.xad)		Instrument	Run		9/18/2014 10:01:25 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		9/18/2014 10:01:25 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		9/18/2014 10:01:25 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		9/18/2014 10:01:25 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		9/18/2014 10:01:25 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		9/18/2014 10:01:25 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		9/18/2014 10:01:25 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1