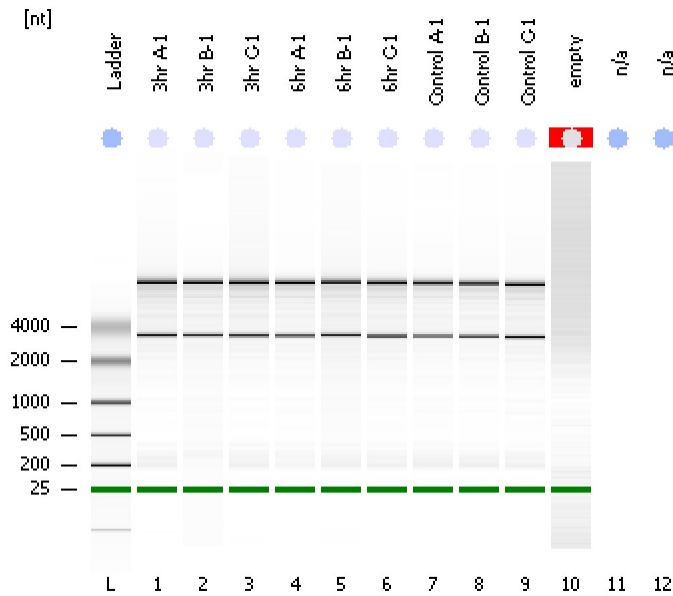


Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-28\2017-02-28\_009.xad

Created: 2/28/2017 2:32:20 PM  
Modified: 2/28/2017 2:52:43 PM

**Electrophoresis File Run Summary**



Instrument Information:

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

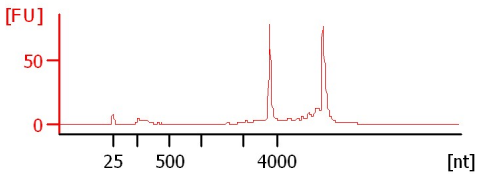
Assay Information:

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

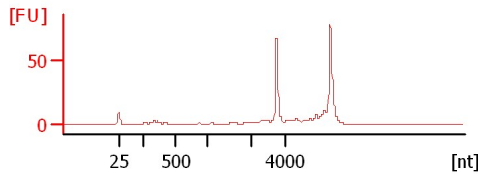
Chip Information:

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

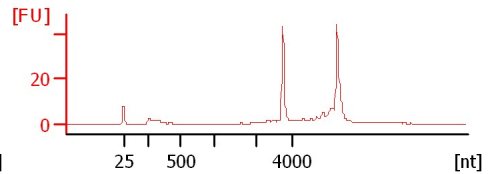
**3hr A-1**  
RIN: 8.80



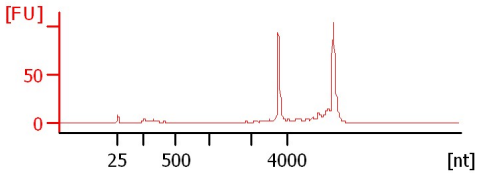
**3hr B-1**  
RIN: 8.70



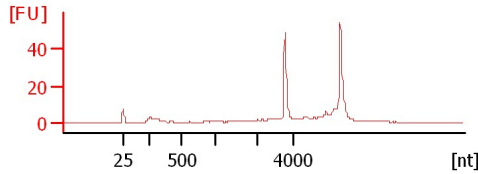
**3hr C-1**  
RIN: 9.30



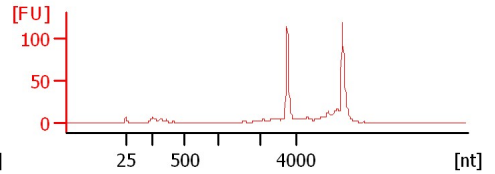
**6hr A-1**  
RIN: 8.90



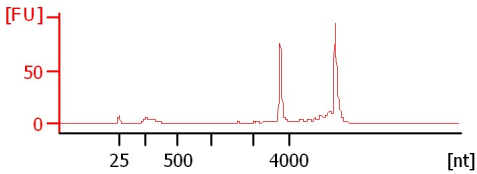
**6hr B-1**  
RIN: 8.30



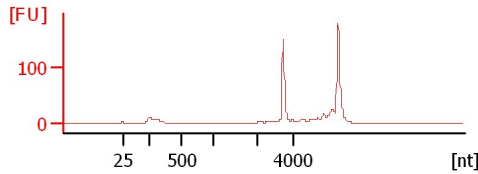
**6hr C-1**  
RIN: 8.60



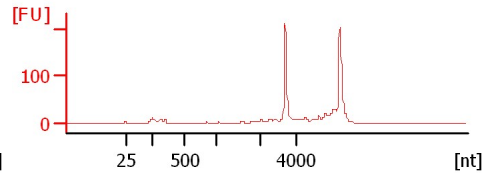
**Control A-1**  
RIN: 8.80



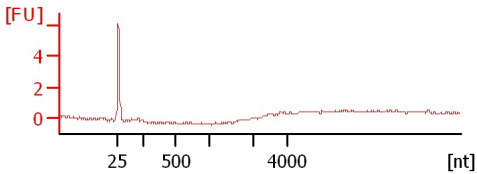
**Control B-1**  
RIN: 8.80



**Control C-1**  
RIN: 8.60



**empty**  
RIN N/A



Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-28\2017-02-28\_009.xad

Created: 2/28/2017 2:32:20 PM  
 Modified: 2/28/2017 2:52:43 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
3hr A-1		✓	RIN: 8.80	
3hr B-1		✓	RIN: 8.70	
3hr C-1		✓	RIN: 9.30	
6hr A-1		✓	RIN: 8.90	
6hr B-1		✓	RIN: 8.30	
6hr C-1		✓	RIN: 8.60	
Control A-1		✓	RIN: 8.80	
Control B-1		✓	RIN: 8.80	
Control C-1		✓	RIN: 8.60	
empty		✓	RIN N/A	
n/a				
n/a				
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-28\2017-02-28\_009.xad

Created: 2/28/2017 2:32:20 PM  
Modified: 2/28/2017 2:52:43 PM

## Electrophoresis Assay Details

### General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 13  
Minimum Visible Range [s] : 17  
Maximum Visible Range [s] : 70  
Start Analysis Time Range [s] : 19  
End Analysis Time Range [s] : 69  
Ladder Concentration [ng/ $\mu$ l] : 150  
Lower Marker Concentration [ng/ $\mu$ l] : 0  
Upper Marker Concentration [ng/ $\mu$ l] : 0  
Used Lower Marker for Quantitation  
Standard Curve Fit is Logarithmic  
Show Data Aligned to Lower Marker

### Integrator Settings

Integration Start Time [s] : 19  
Integration End Time [s] : 69  
Slope Threshold : 0.6  
Height Threshold [FU] : 0.5  
Area Threshold : 0.2  
Width Threshold [s] : 0.5  
Baseline Plateau [s] : 6

### Filter Settings

Filter Width [s] : 0.5  
Polynomial Order : 4

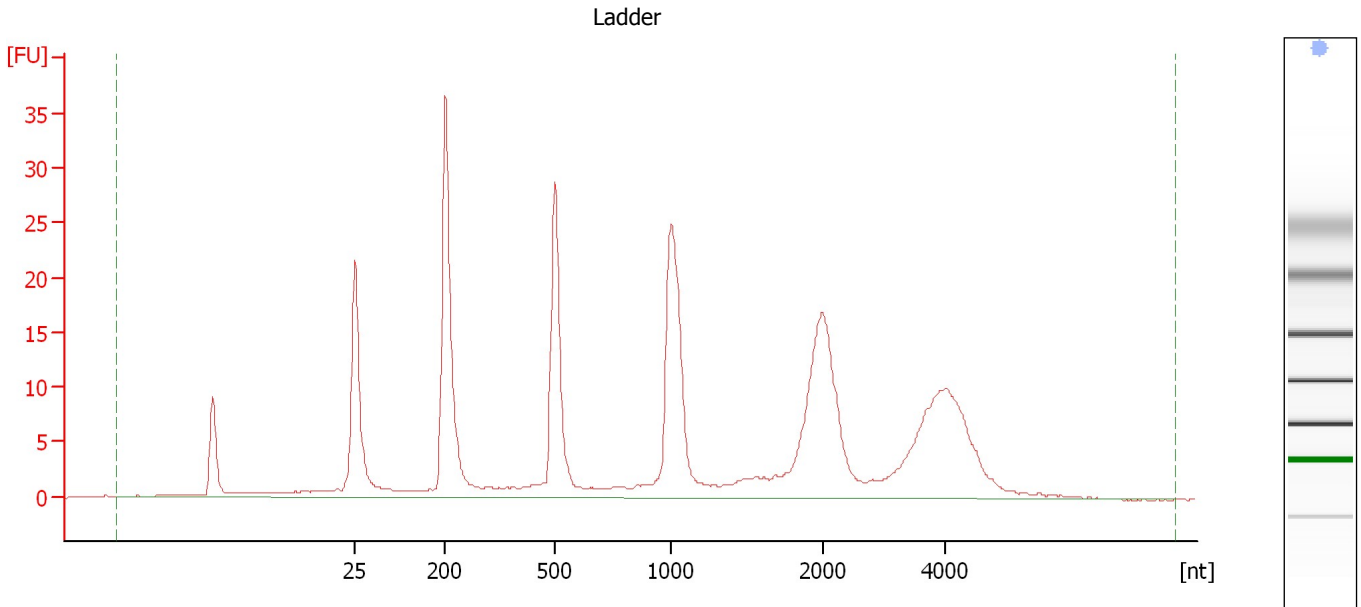
### Ladder

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

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-28\2017-02-28\_009.xad

Created: 2/28/2017 2:32:20 PM  
Modified: 2/28/2017 2:52:43 PM

**Electropherogram Summary**



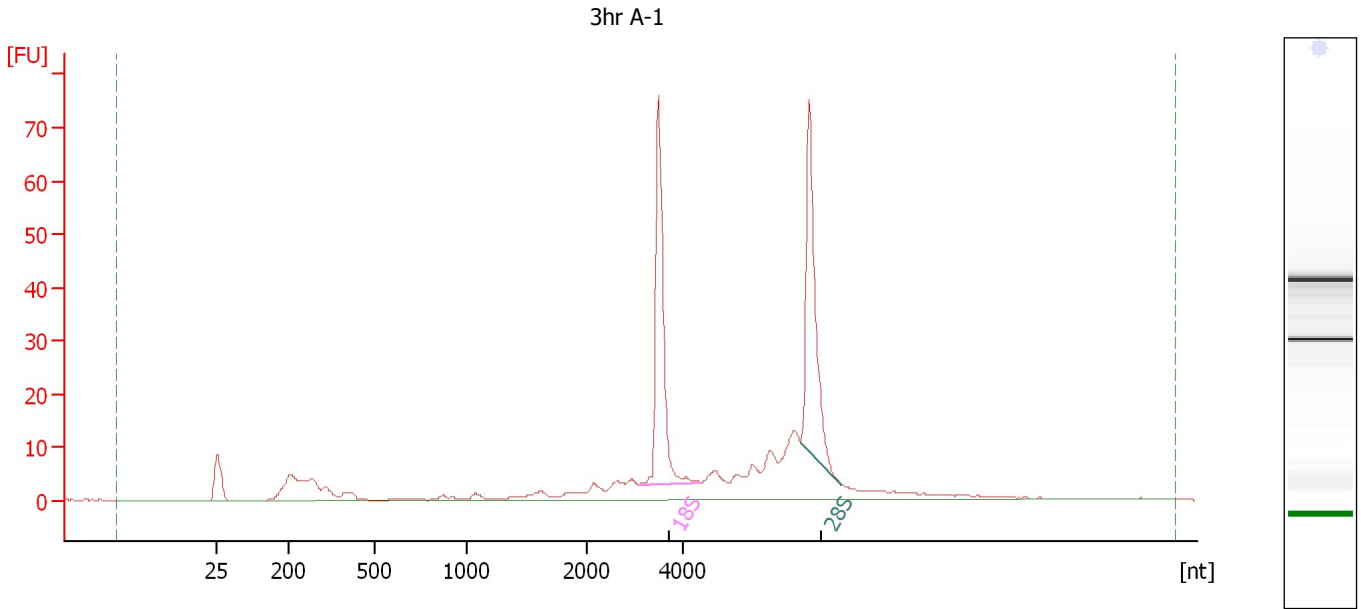
**Overall Results for Ladder**

RNA Area:	302.2	Result Flagging Color:	<span style="background-color: #add8e6; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-28\2017-02-28\_009.xad

Created: 2/28/2017 2:32:20 PM  
Modified: 2/28/2017 2:52:43 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : 3hr A-1**

RNA Area: 313.2                      RNA Integrity Number (RIN): 8.8 (B.02.08)  
RNA Concentration: 155 ng/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.0                      Result Flagging Label: RIN: 8.80

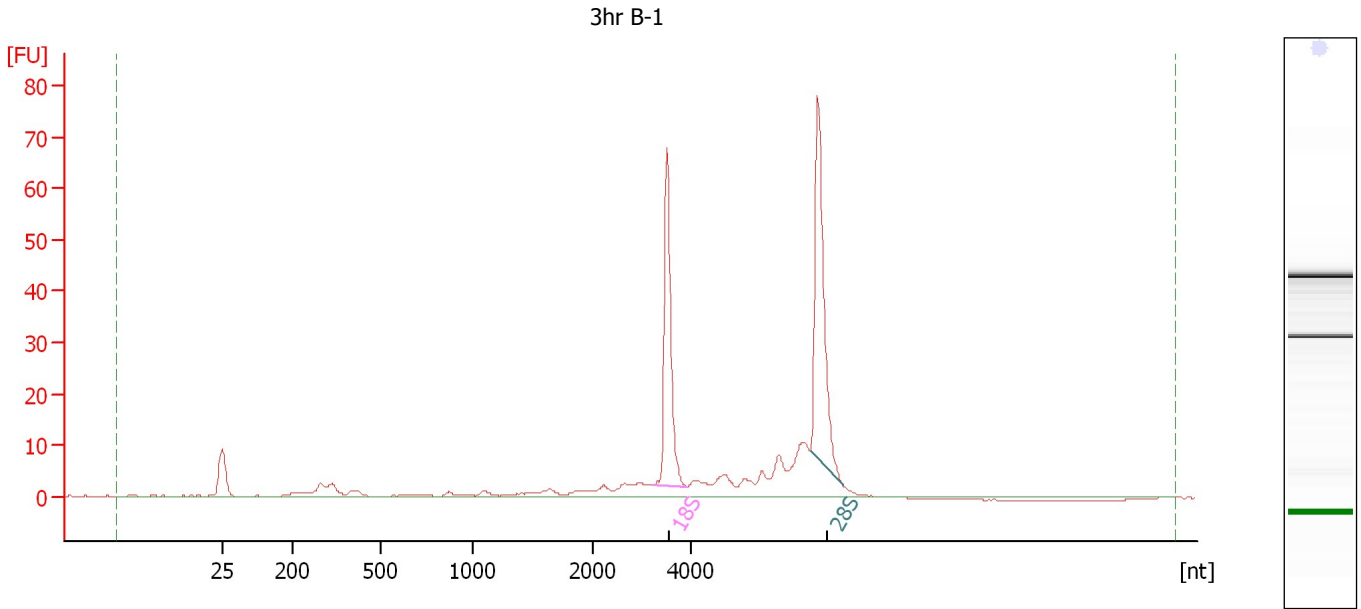
**Fragment table for sample 1 : 3hr A-1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,078	4,378	63.3	20.2
28S	6,426	7,263	62.8	20.0

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-28\2017-02-28\_009.xad

Created: 2/28/2017 2:32:20 PM  
Modified: 2/28/2017 2:52:43 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : 3hr B-1**

RNA Area: 232.3                      RNA Integrity Number (RIN): 8.7 (B.02.08)  
RNA Concentration: 115 ng/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.1              Result Flagging Label: RIN: 8.70

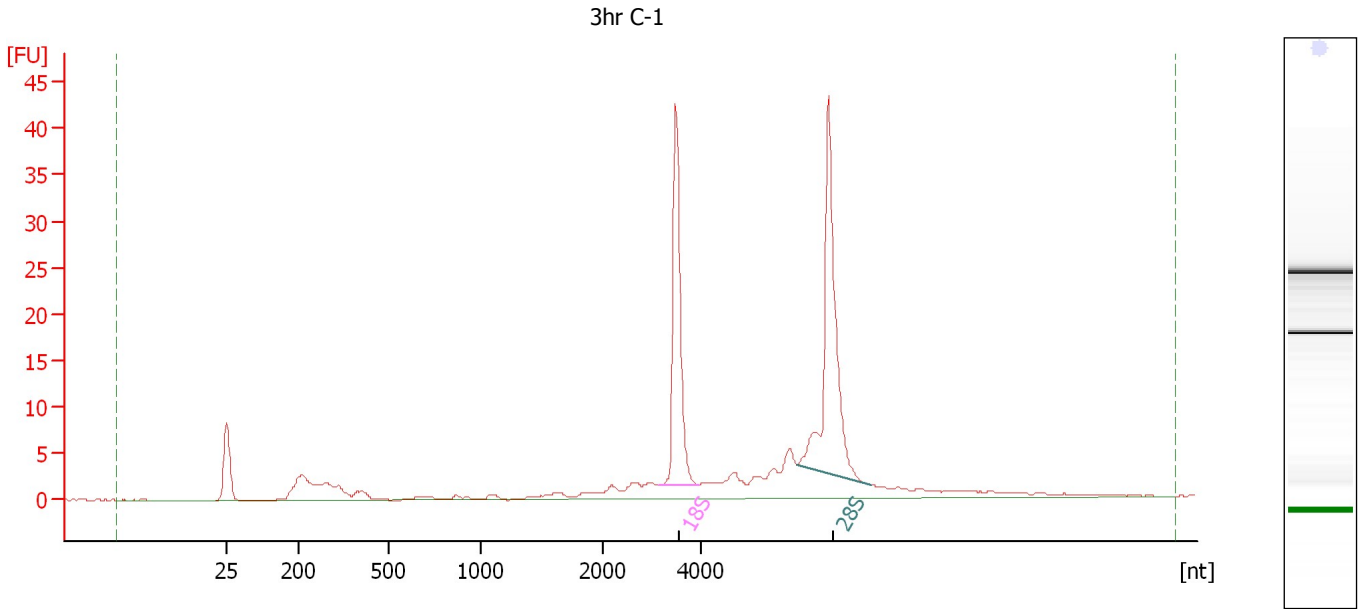
**Fragment table for sample 2 : 3hr B-1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,203	3,924	54.2	23.3
28S	6,437	7,092	61.9	26.6

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-28\2017-02-28\_009.xad

Created: 2/28/2017 2:32:20 PM  
Modified: 2/28/2017 2:52:43 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : 3hr C-1**

RNA Area: 164.1                      RNA Integrity Number (RIN): 9.3 (B.02.08)  
RNA Concentration: 81 ng/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.4                      Result Flagging Label: RIN: 9.30

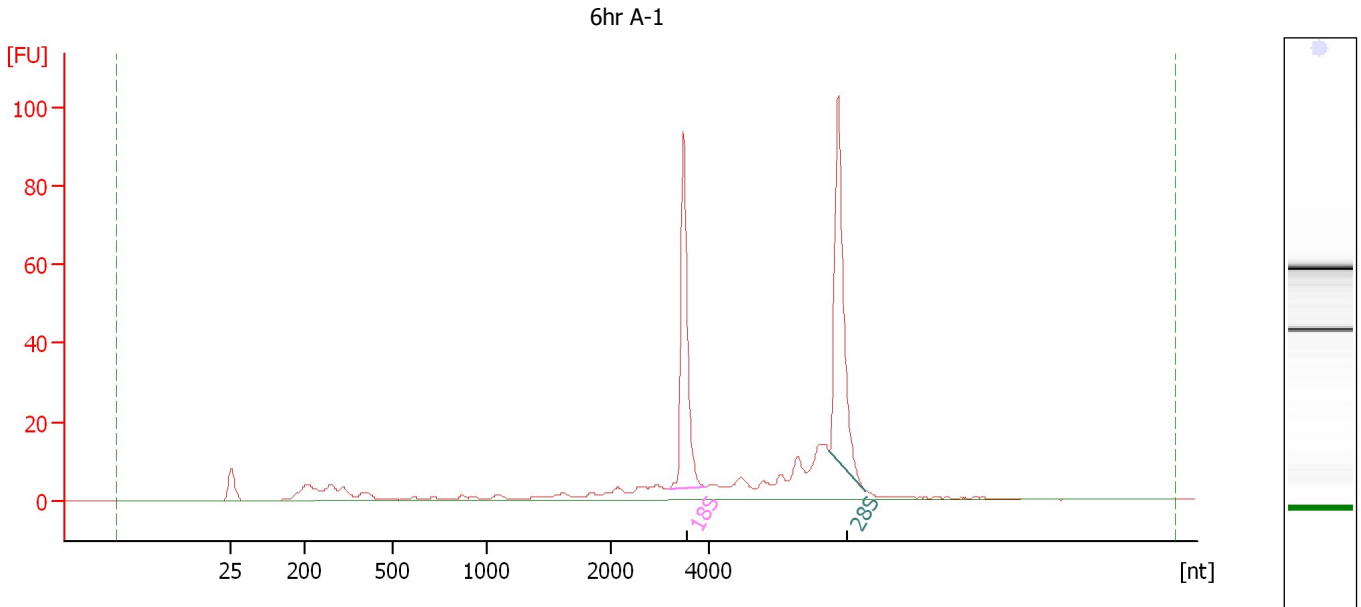
**Fragment table for sample 3 : 3hr C-1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,136	3,936	34.0	20.7
28S	5,947	7,417	46.3	28.2

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-28\2017-02-28\_009.xad

Created: 2/28/2017 2:32:20 PM  
 Modified: 2/28/2017 2:52:43 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : 6hr A-1**

RNA Area:	335.7	RNA Integrity Number (RIN):	8.9 (B.02.08)
RNA Concentration:	167 ng/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]:	1.1	Result Flagging Label:	RIN: 8.90

**Fragment table for sample 4 : 6hr A-1**

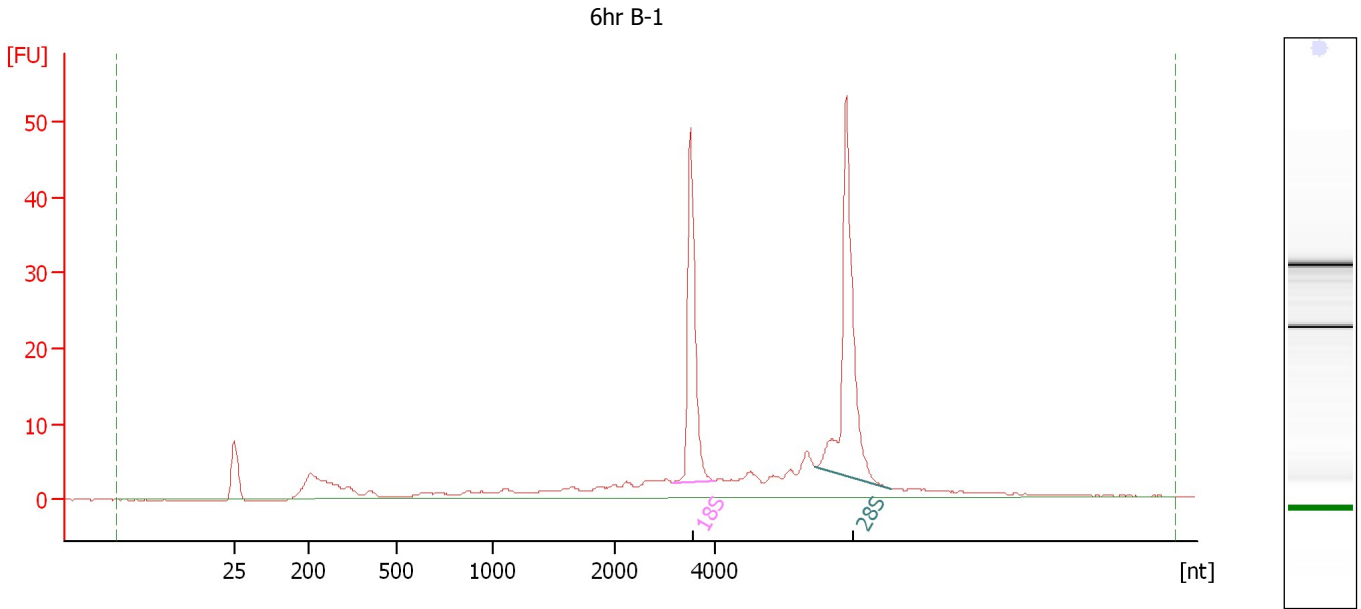
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,194	3,923	73.5	21.9
28S	6,412	7,120	80.9	24.1



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-28\2017-02-28\_009.xad

Created: 2/28/2017 2:32:20 PM  
Modified: 2/28/2017 2:52:43 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : 6hr B-1**

RNA Area: 212.4                      RNA Integrity Number (RIN): 8.3 (B.02.08)  
RNA Concentration: 105 ng/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.4              Result Flagging Label: RIN: 8.30

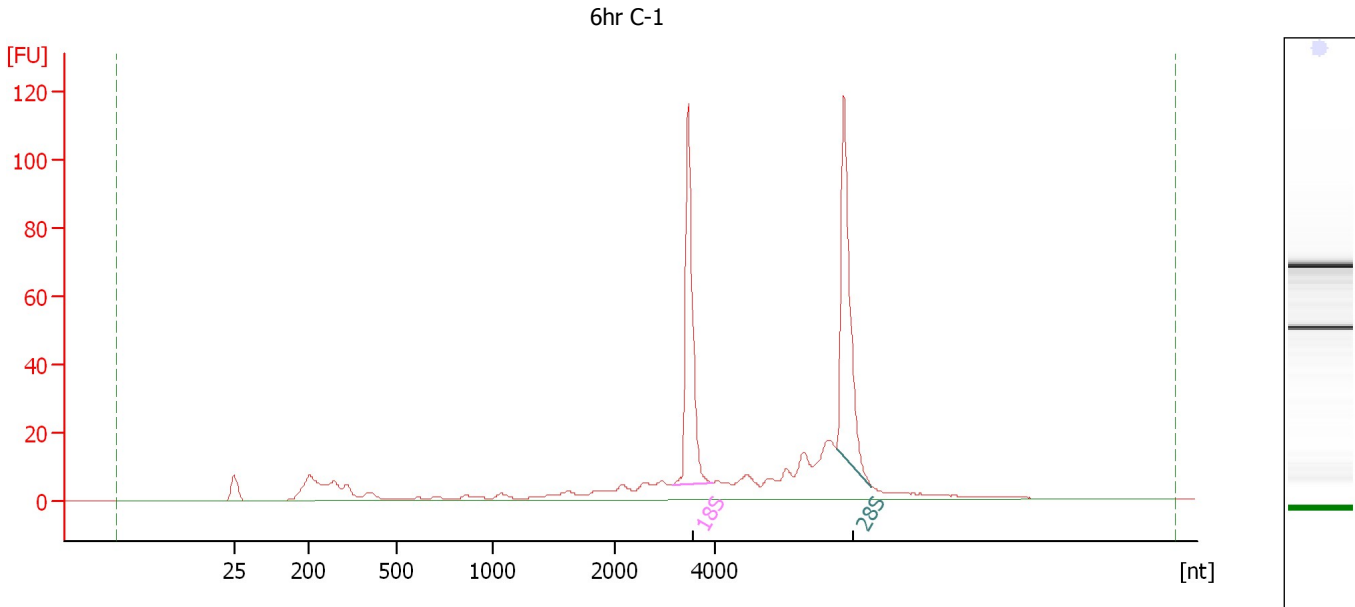
**Fragment table for sample 5 : 6hr B-1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,163	3,973	38.1	17.9
28S	5,999	7,512	53.3	25.1

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-28\2017-02-28\_009.xad

Created: 2/28/2017 2:32:20 PM  
Modified: 2/28/2017 2:52:43 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : 6hr C-1**

RNA Area: 455.3                      RNA Integrity Number (RIN): 8.6 (B.02.08)  
RNA Concentration: 226 ng/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.0                      Result Flagging Label: RIN: 8.60

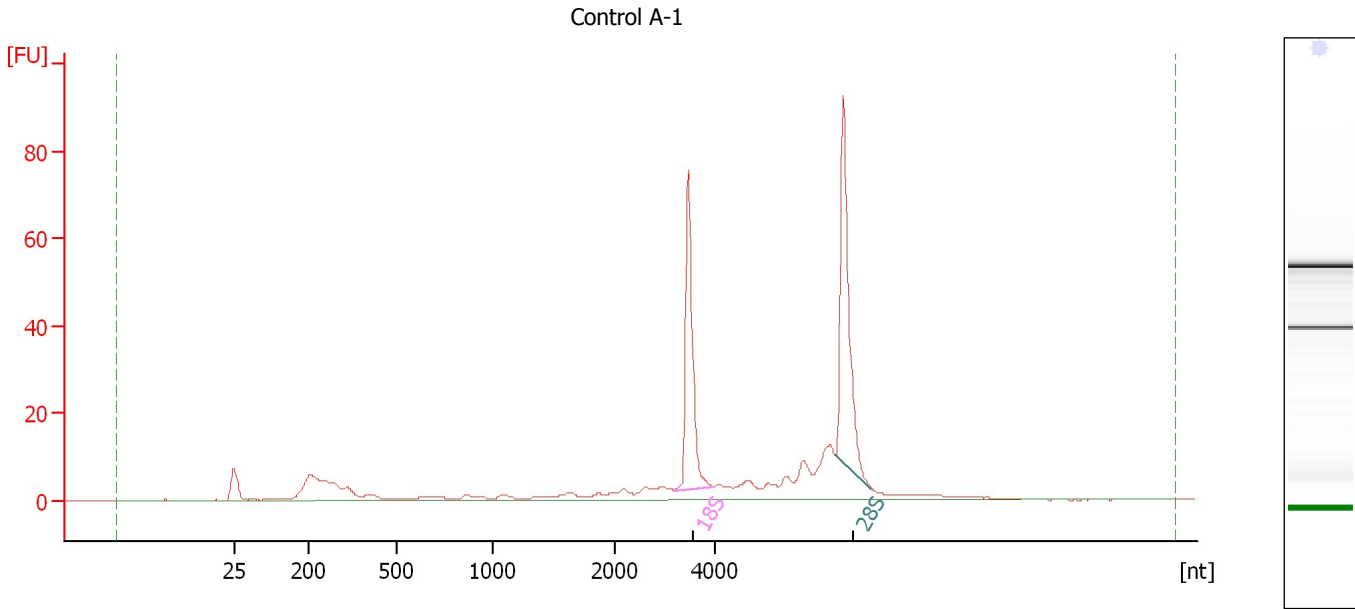
**Fragment table for sample 6 : 6hr C-1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,163	3,930	91.0	20.0
28S	6,404	7,107	95.3	20.9

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-28\2017-02-28\_009.xad

Created: 2/28/2017 2:32:20 PM  
Modified: 2/28/2017 2:52:43 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : Control A-1**

RNA Area: 301.6      RNA Integrity Number (RIN): 8.8 (B.02.08)  
RNA Concentration: 150 ng/μl      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.2      Result Flagging Label: RIN: 8.80

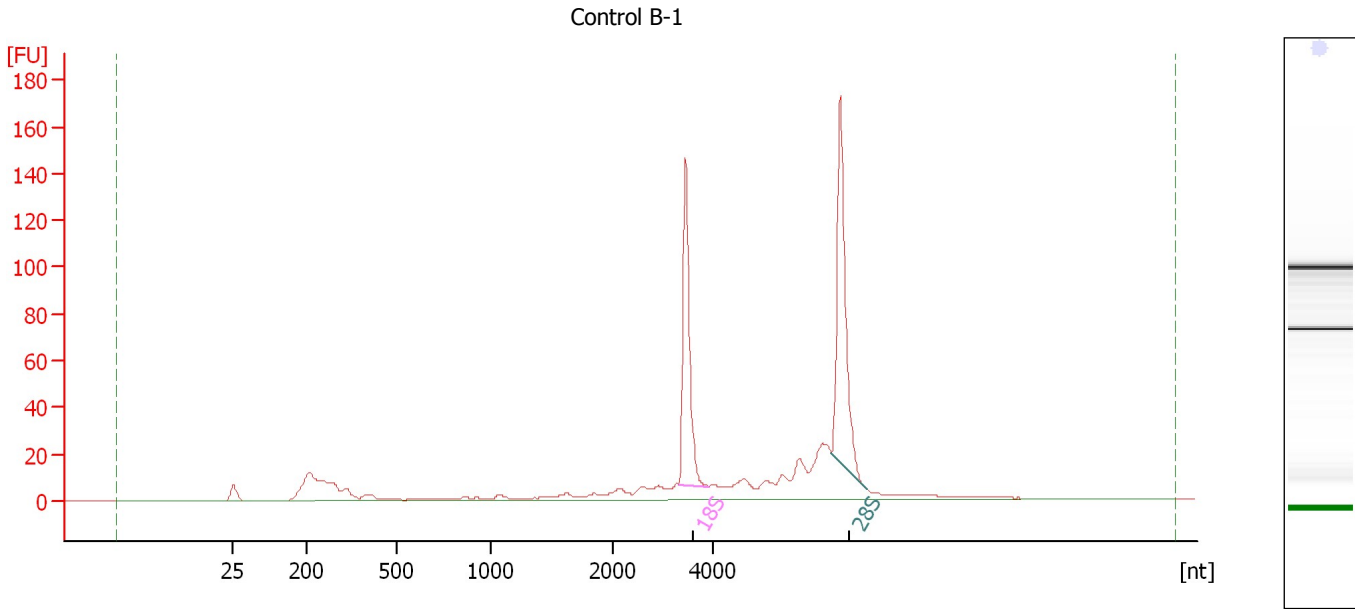
**Fragment table for sample 7 : Control A-1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,184	3,952	58.5	19.4
28S	6,382	7,107	71.2	23.6

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-28\2017-02-28\_009.xad

Created: 2/28/2017 2:32:20 PM  
Modified: 2/28/2017 2:52:43 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : Control B-1**

RNA Area:	563.1	RNA Integrity Number (RIN):	8.8 (B.02.08)
RNA Concentration:	279 ng/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]:	1.2	Result Flagging Label:	RIN: 8.80

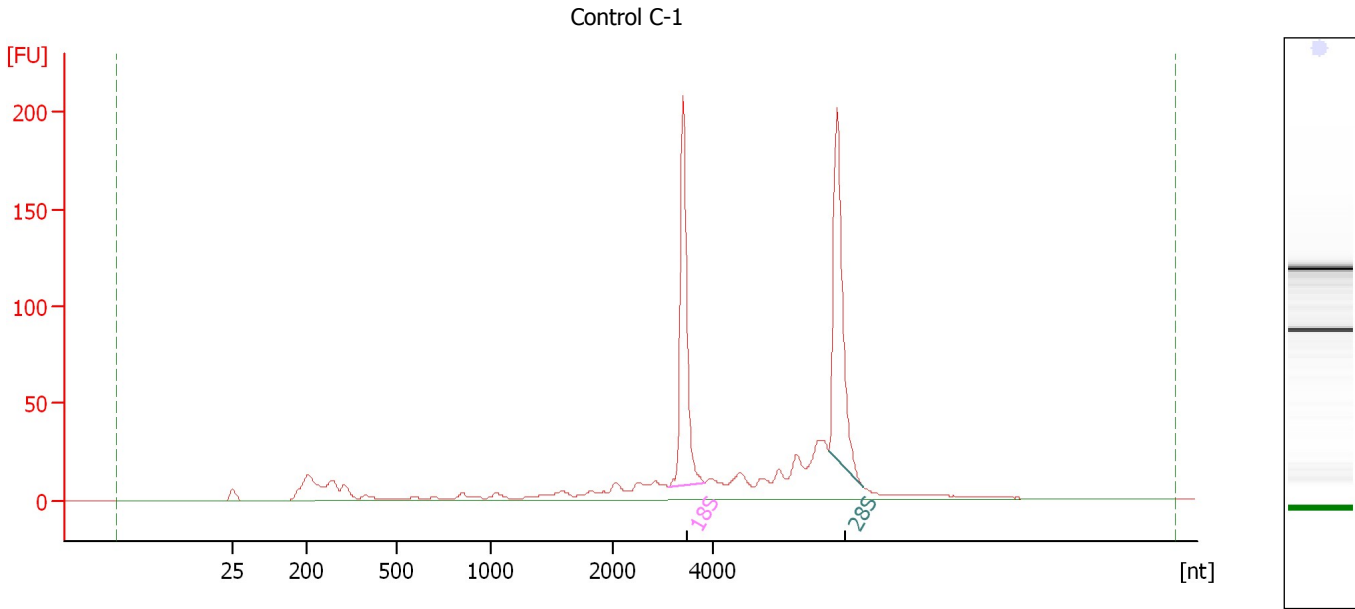
**Fragment table for sample 8 : Control B-1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,287	3,907	109.1	19.4
28S	6,364	7,069	132.9	23.6

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-28\2017-02-28\_009.xad

Created: 2/28/2017 2:32:20 PM  
Modified: 2/28/2017 2:52:43 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : Control C-1**

RNA Area:	783.0	RNA Integrity Number (RIN):	8.6 (B.02.08)
RNA Concentration:	389 ng/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]:	1.0	Result Flagging Label:	RIN: 8.60

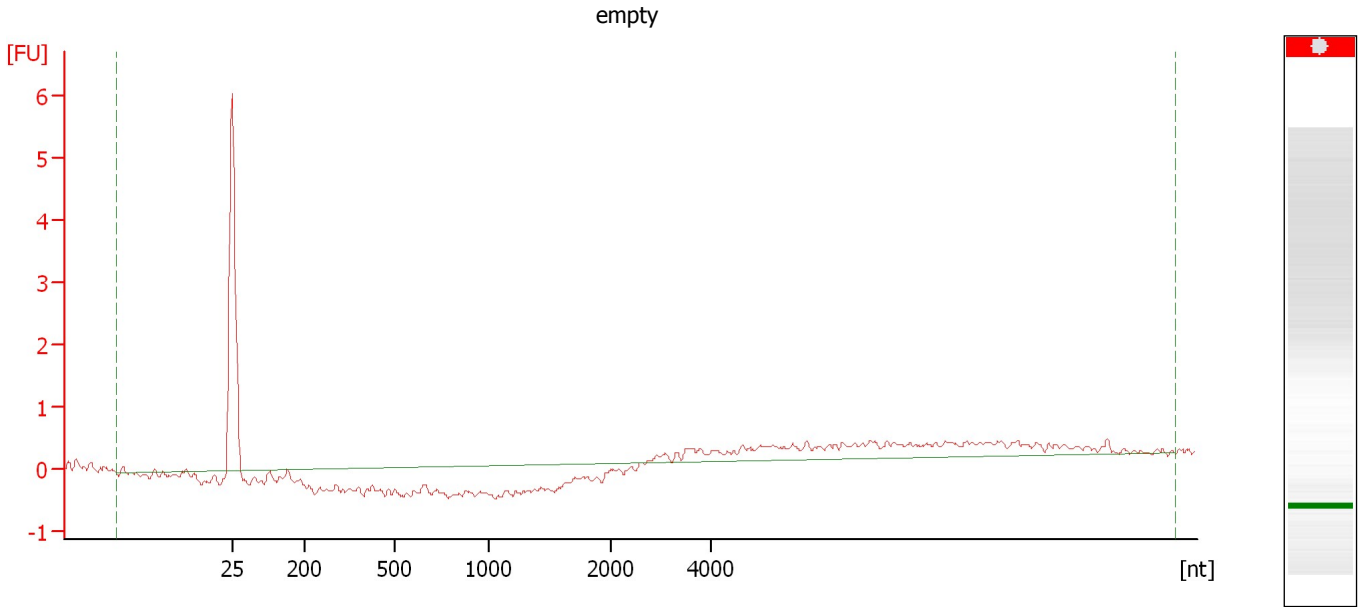
**Fragment table for sample 9 : Control C-1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,095	3,843	164.7	21.0
28S	6,300	7,005	161.7	20.6

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-28\2017-02-28\_009.xad

Created: 2/28/2017 2:32:20 PM  
Modified: 2/28/2017 2:52:43 PM

**Electropherogram Summary Continued ...**



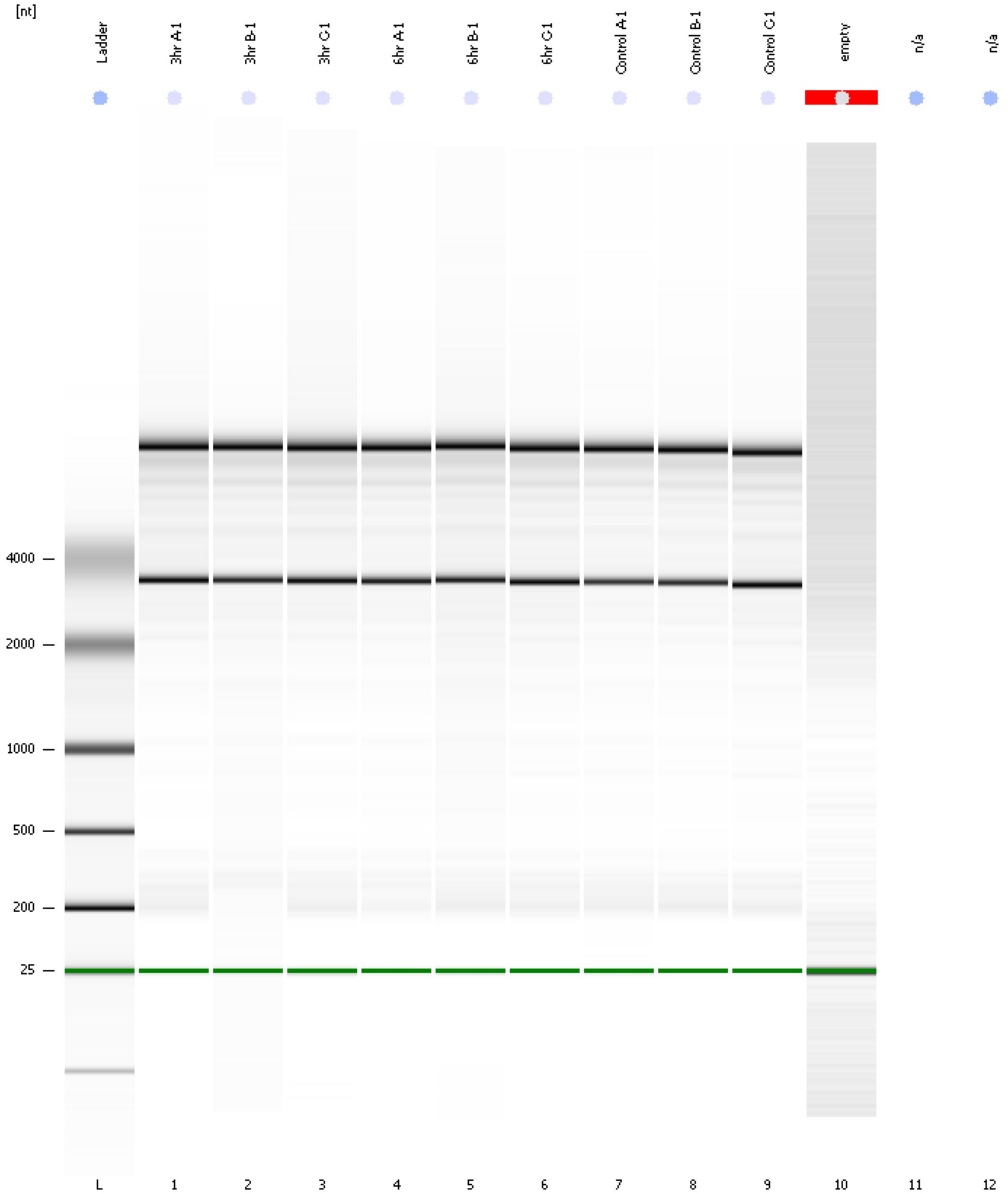
**Overall Results for sample 10 : empty**

RNA Area:	6.6	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	3 ng/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 Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-28\2017-02-28\_009.xad

Created: 2/28/2017 2:32:20 PM  
Modified: 2/28/2017 2:52:43 PM

**Gel Image**



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-28\2017-02-28\_009.xad

Created: 2/28/2017 2:32:20 PM  
Modified: 2/28/2017 2:52:43 PM

**Invalid Samples**

Sample 11 has not been run, no results available.

Sample 12 has not been run, no results available.



Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-28\2017-02-28\_009.xad

Created: 2/28/2017 2:32:20 PM  
 Modified: 2/28/2017 2:52:43 PM

### Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 11)		Instrument	Run		2/28/2017 2:52:43 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2017-02-28\2017-02-28_009.xad)		Instrument	Run		2/28/2017 2:32:20 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		2/28/2017 2:32:20 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		2/28/2017 2:32:20 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		2/28/2017 2:32:20 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		2/28/2017 2:32:20 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		2/28/2017 2:32:20 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		2/28/2017 2:32:20 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1