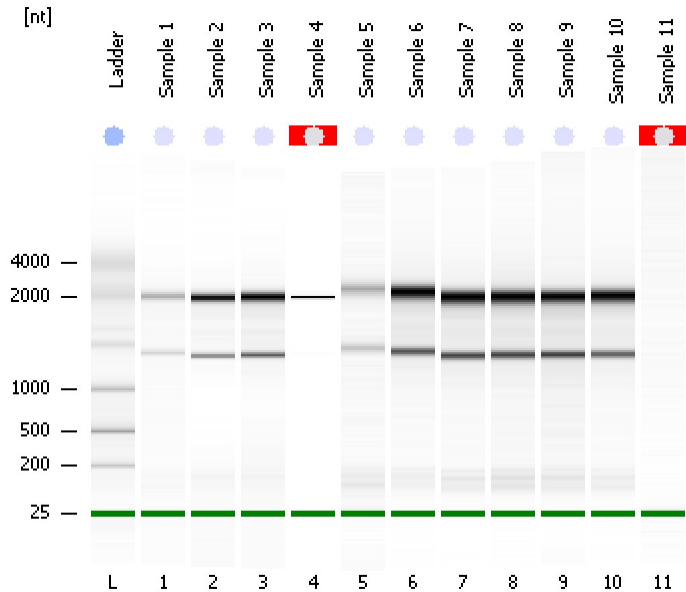


Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-14\2018-06-14\_003.xad

Created: 6/14/2018 3:28:19 PM  
Modified: 6/14/2018 3:51:12 PM

### Electrophoresis File Run Summary



#### Instrument Information:

Instrument Name: DE34903152      Firmware: C.01.069  
Serial#: DE34903152      Type: G2938C

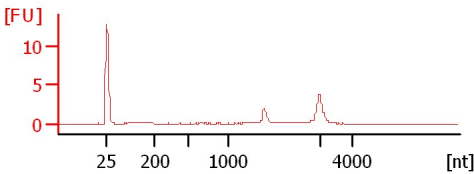
#### Assay Information:

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.

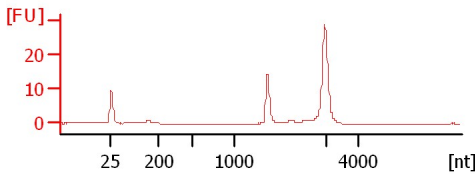
#### Chip Information:

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

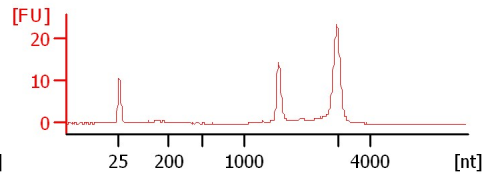
**Sample 1**  
RIN: 8.40



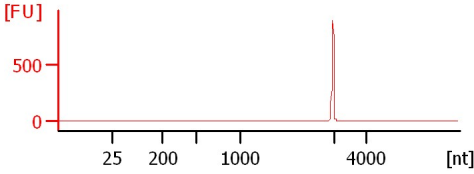
**Sample 2**  
RIN: 10



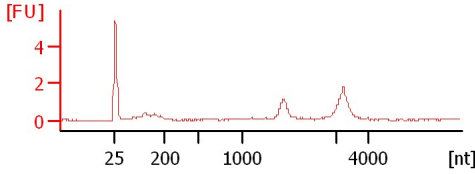
**Sample 3**  
RIN: 10



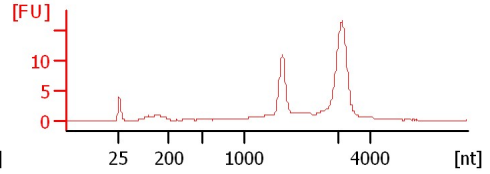
**Sample 4**  
RIN N/A



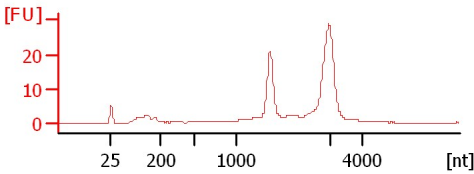
**Sample 5**  
RIN: 8.50



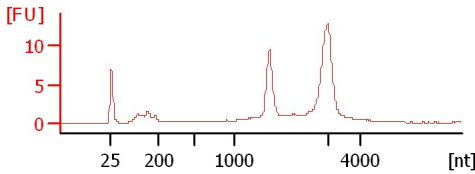
**Sample 6**  
RIN: 9.70



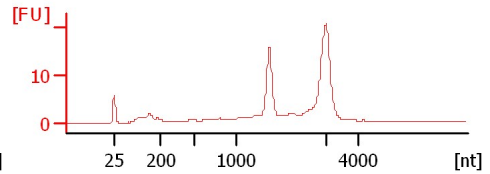
**Sample 7**  
RIN: 9.70



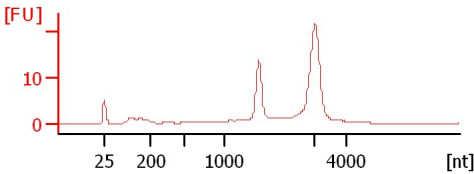
**Sample 8**  
RIN: 9.40



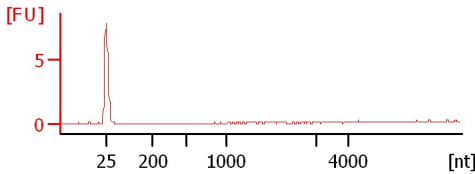
**Sample 9**  
RIN: 9.10



**Sample 10**  
RIN: 9.70



**Sample 11**  
RIN N/A



Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-14\2018-06-14\_003.xad

Created: 6/14/2018 3:28:19 PM  
 Modified: 6/14/2018 3:51:12 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
Sample 1		✓	RIN: 8.40	
Sample 2		✓	RIN:10	
Sample 3		✓	RIN:10	
Sample 4		✓	RIN N/A	
Sample 5		✓	RIN: 8.50	
Sample 6		✓	RIN: 9.70	
Sample 7		✓	RIN: 9.70	
Sample 8		✓	RIN: 9.40	
Sample 9		✓	RIN: 9.10	
Sample 10		✓	RIN: 9.70	
Sample 11		✓	RIN N/A	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-14\2018-06-14\_003.xad

Created: 6/14/2018 3:28:19 PM  
Modified: 6/14/2018 3:51:12 PM

## 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

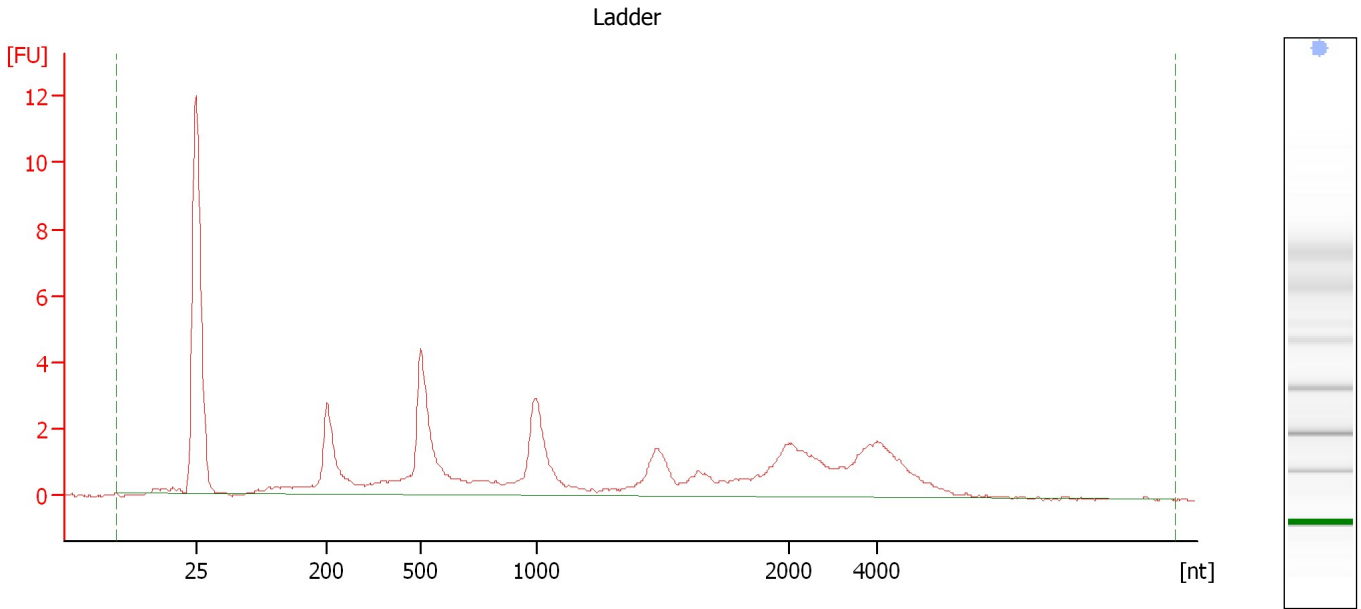
### Ladder

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\2018-06-14\2018-06-14\_003.xad

Created: 6/14/2018 3:28:19 PM  
Modified: 6/14/2018 3:51:12 PM

**Electropherogram Summary**



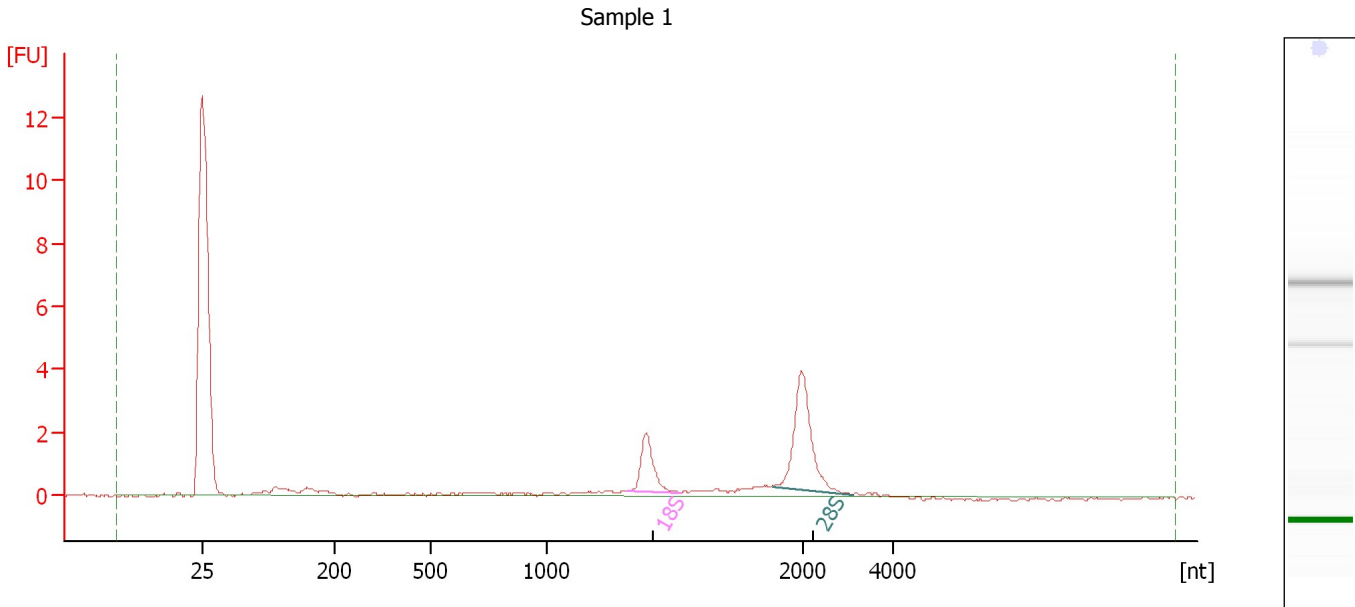
**Overall Results for Ladder**

RNA Area:	60.9	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\2018-06-14\2018-06-14\_003.xad

Created: 6/14/2018 3:28:19 PM  
Modified: 6/14/2018 3:51:12 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : Sample 1**

RNA Area:	17.7	RNA Integrity Number (RIN):	8.4 (B.02.08)
RNA Concentration:	290 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]:	2.4	Result Flagging Label:	RIN: 8.40

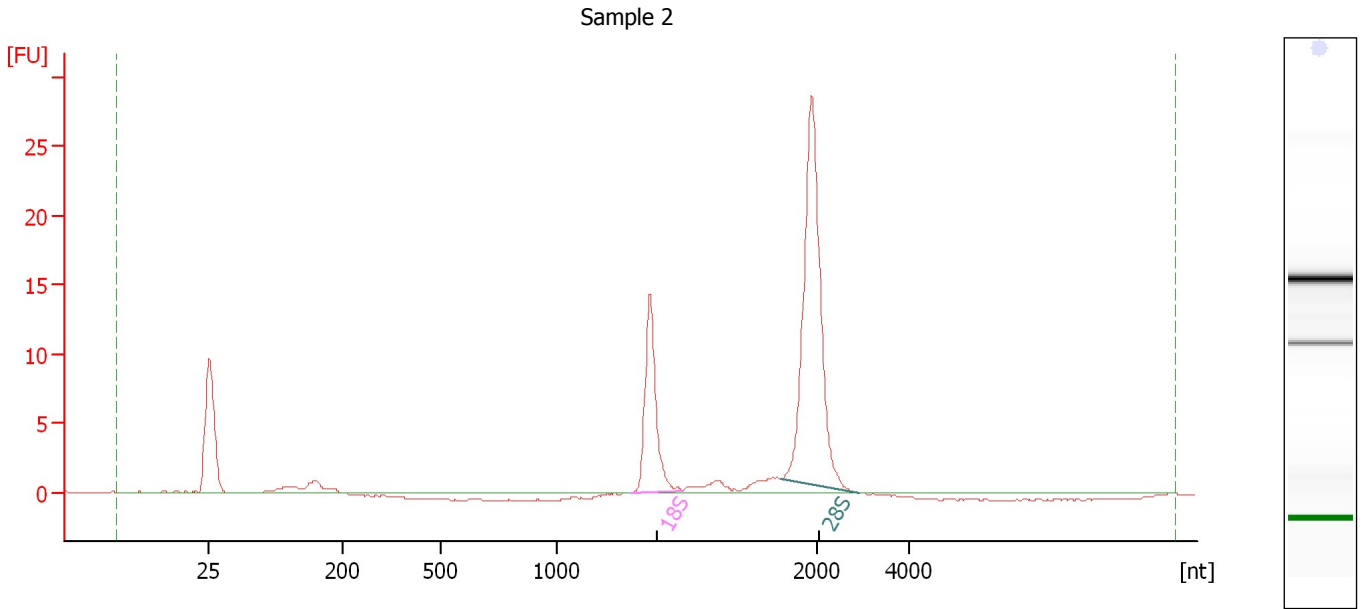
**Fragment table for sample 1 : Sample 1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,316	1,524	2.8	15.8
28S	1,882	3,113	6.6	37.5

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-14\2018-06-14\_003.xad

Created: 6/14/2018 3:28:19 PM  
Modified: 6/14/2018 3:51:12 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : Sample 2**

RNA Area:	81.5	RNA Integrity Number (RIN):	10 (B.02.08)
RNA Concentration:	1,338 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]:	2.6	Result Flagging Label:	RIN:10

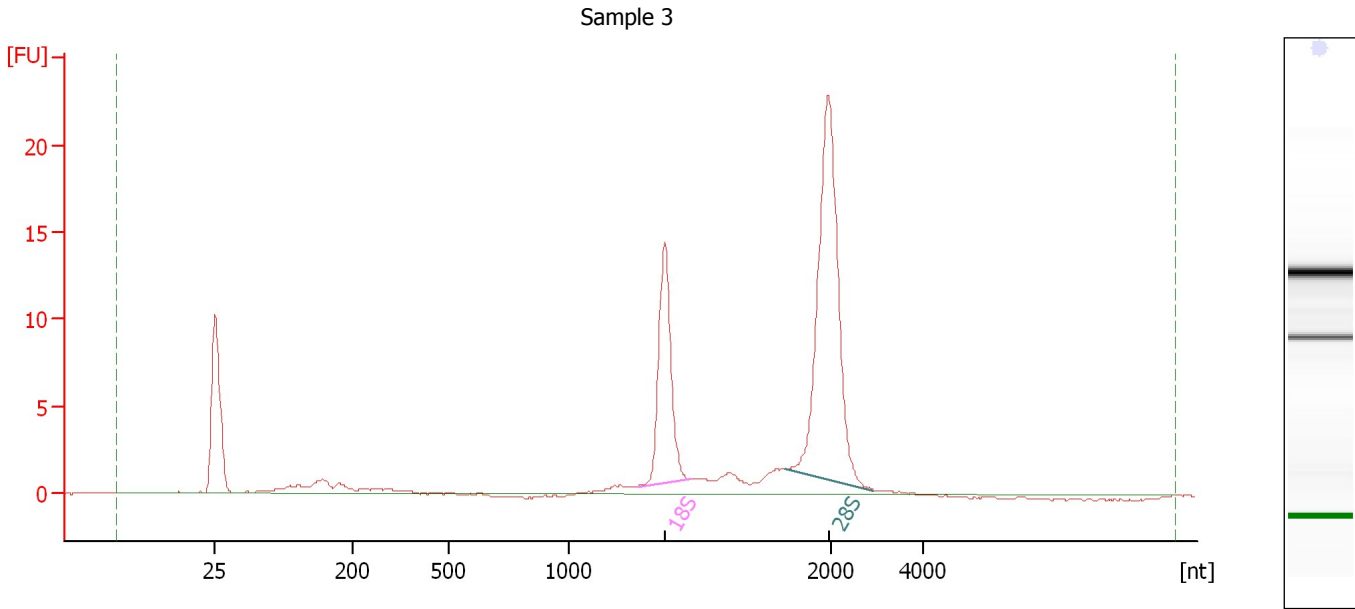
**Fragment table for sample 2 : Sample 2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,278	1,480	19.0	23.3
28S	1,858	2,907	48.7	59.8

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-14\2018-06-14\_003.xad

Created: 6/14/2018 3:28:19 PM  
Modified: 6/14/2018 3:51:12 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : Sample 3**

RNA Area:	97.8	RNA Integrity Number (RIN):	10 (B.02.08)
RNA Concentration:	1,606 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]:	2.2	Result Flagging Label:	RIN:10

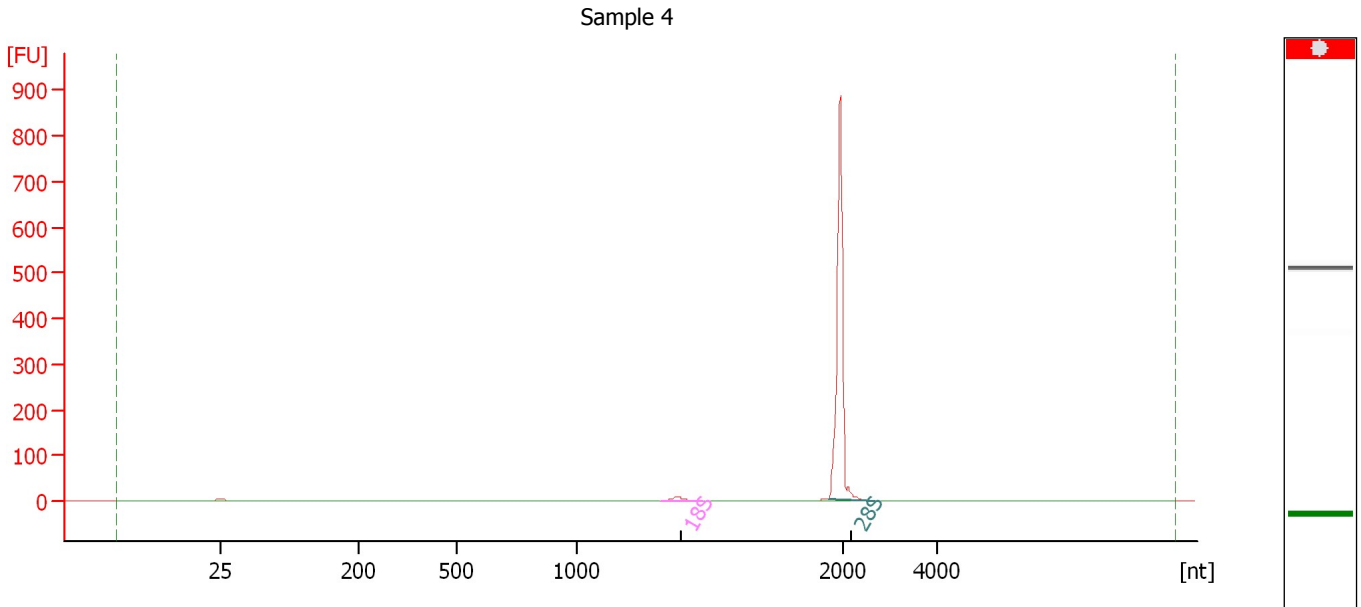
**Fragment table for sample 3 : Sample 3**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,266	1,465	20.2	20.6
28S	1,823	2,915	45.2	46.2

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-14\2018-06-14\_003.xad

Created: 6/14/2018 3:28:19 PM  
Modified: 6/14/2018 3:51:12 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : Sample 4**

RNA Area:	580.3	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	9,528 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]:	41.2	Result Flagging Label:	RIN N/A

**Fragment table for sample 4 : Sample 4**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,314	1,475	12.5	2.1
28S	1,949	2,677	513.4	88.5

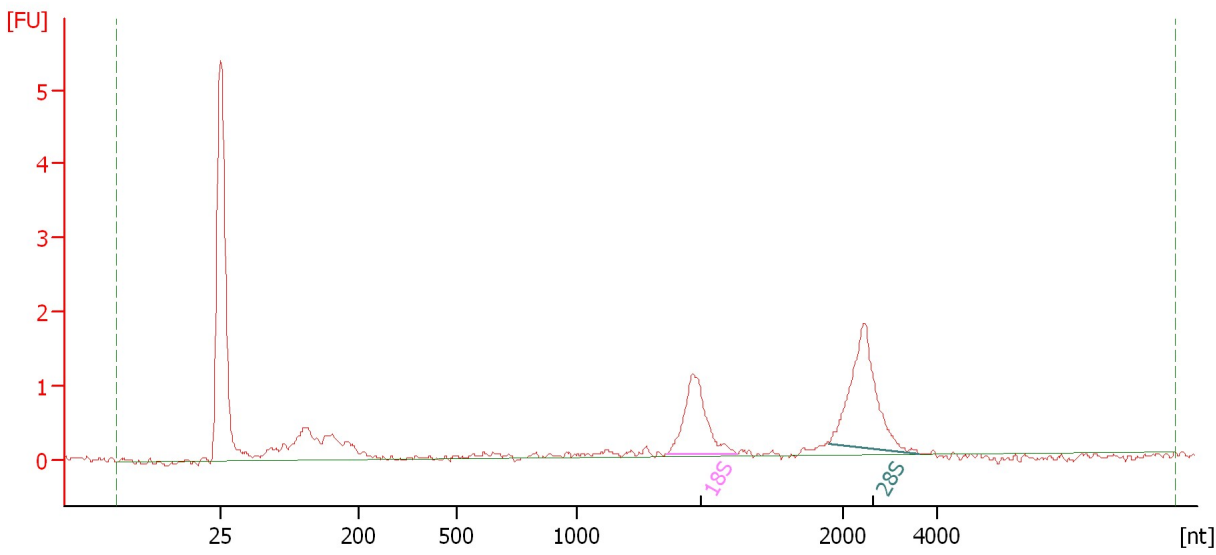


Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-14\2018-06-14\_003.xad

Created: 6/14/2018 3:28:19 PM  
Modified: 6/14/2018 3:51:12 PM

**Electropherogram Summary Continued ...**

Sample 5



**Overall Results for sample 5 : Sample 5**

RNA Area:	13.5	RNA Integrity Number (RIN):	8.5 (B.02.08)
RNA Concentration:	221 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]:	1.5	Result Flagging Label:	RIN: 8.50

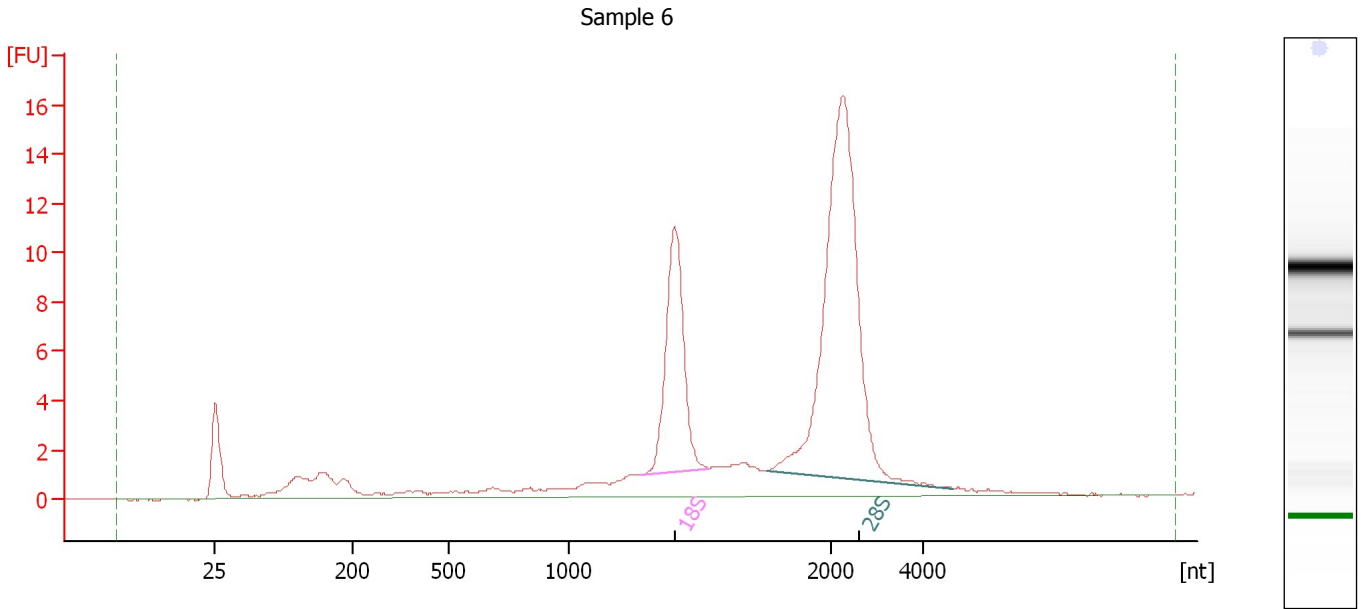
**Fragment table for sample 5 : Sample 5**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,338	1,603	2.7	20.4
28S	1,949	3,641	4.2	31.0

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-14\2018-06-14\_003.xad

Created: 6/14/2018 3:28:19 PM  
 Modified: 6/14/2018 3:51:12 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : Sample 6**

RNA Area:	119.0	RNA Integrity Number (RIN):	9.7 (B.02.08)
RNA Concentration:	1,954 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]:	2.4	Result Flagging Label:	RIN: 9.70

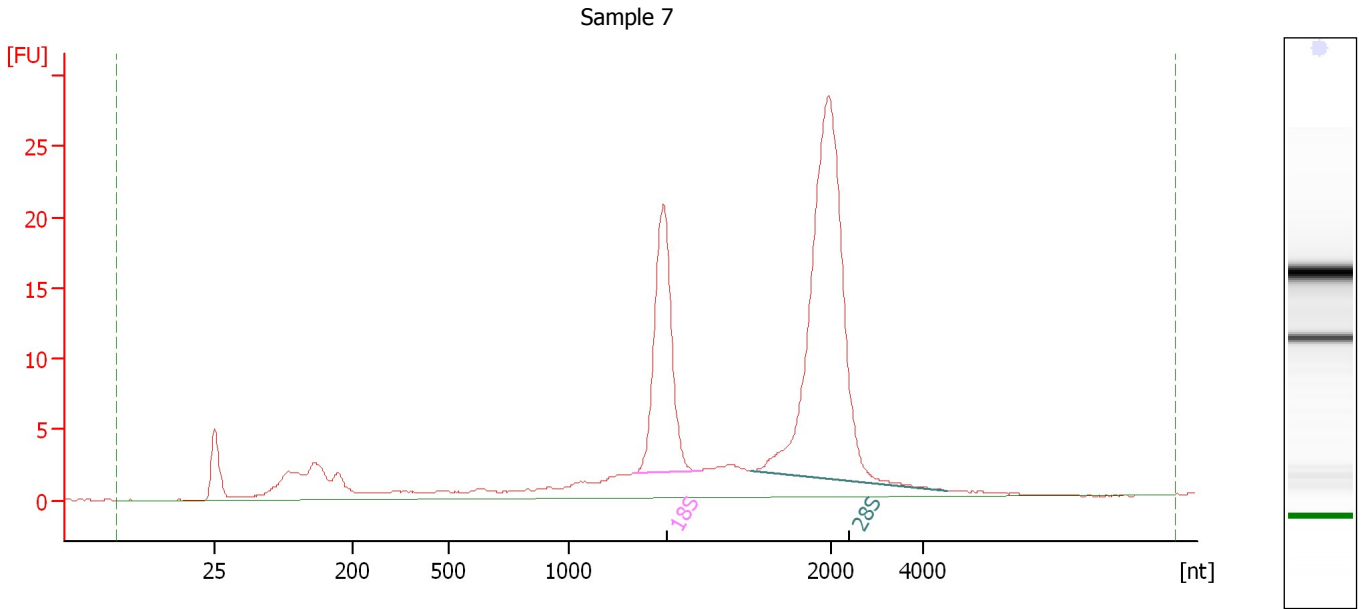
**Fragment table for sample 6 : Sample 6**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,274	1,534	21.0	17.6
28S	1,754	4,655	51.3	43.1

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-14\2018-06-14\_003.xad

Created: 6/14/2018 3:28:19 PM  
Modified: 6/14/2018 3:51:12 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : Sample 7**

RNA Area: 221.1      RNA Integrity Number (RIN): 9.7 (B.02.08)  
RNA Concentration: 3,631 pg/μl      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 2.3      Result Flagging Label: RIN: 9.70

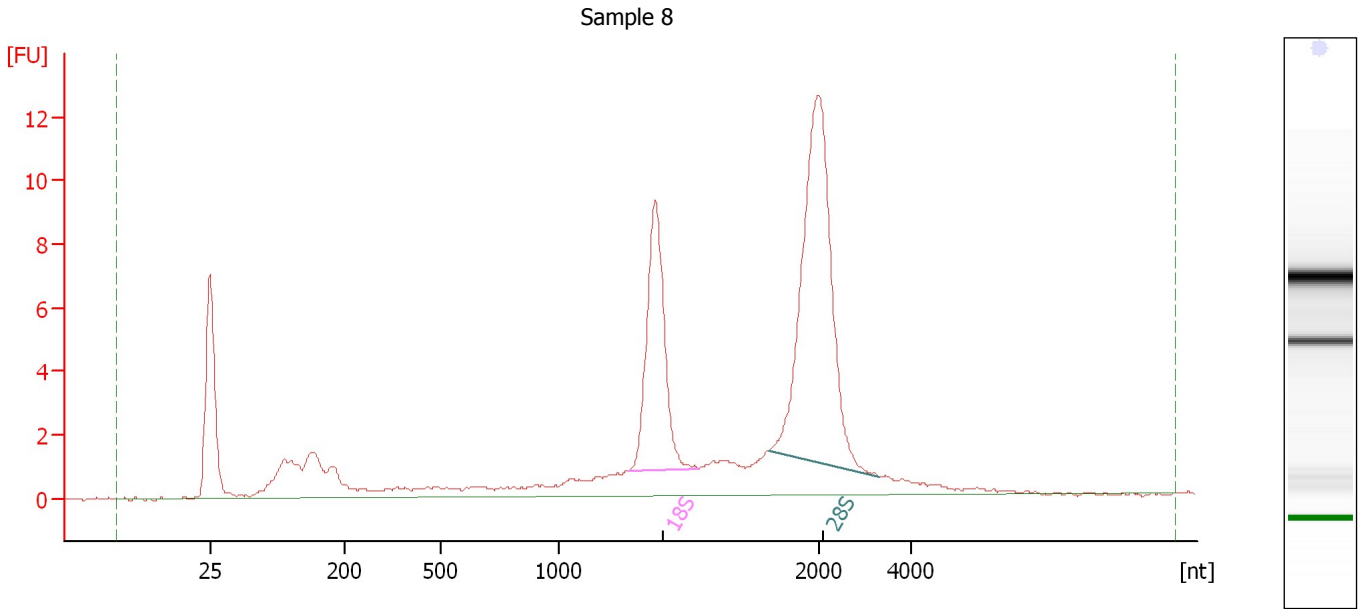
**Fragment table for sample 7 : Sample 7**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,250	1,502	38.7	17.5
28S	1,697	4,492	89.2	40.3

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-14\2018-06-14\_003.xad

Created: 6/14/2018 3:28:19 PM  
 Modified: 6/14/2018 3:51:12 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : Sample 8**

RNA Area:	105.1	RNA Integrity Number (RIN):	9.4 (B.02.08)
RNA Concentration:	1,725 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]:	1.9	Result Flagging Label:	RIN: 9.40

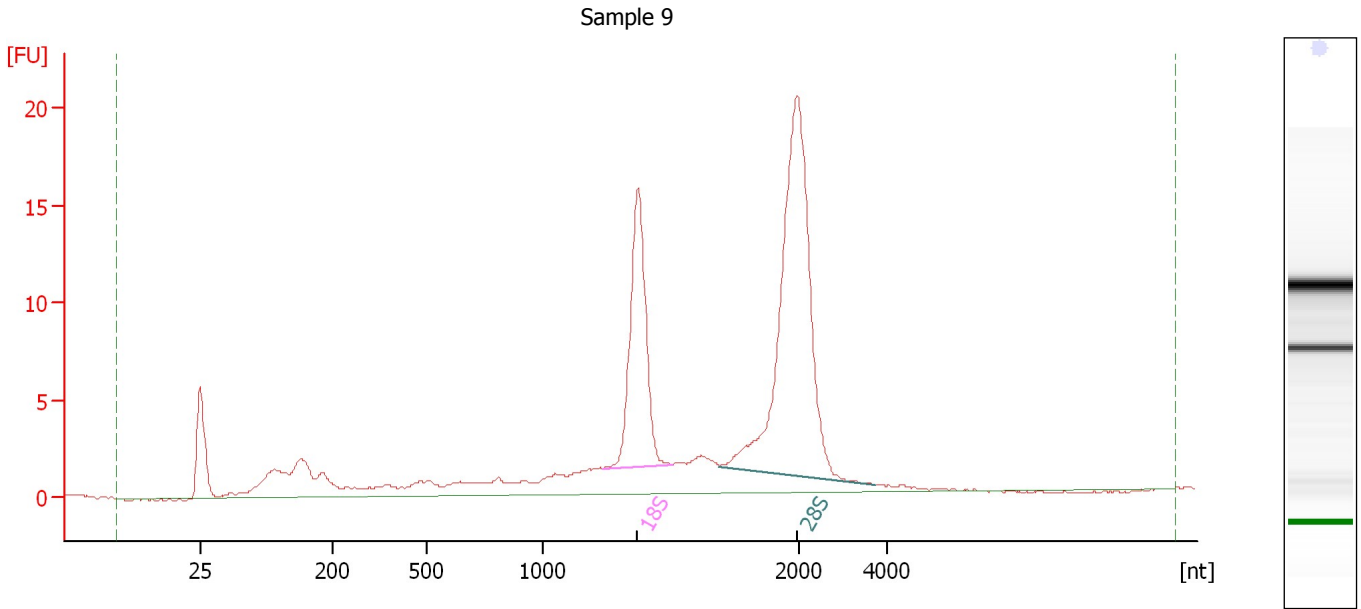
**Fragment table for sample 8 : Sample 8**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,267	1,533	17.8	17.0
28S	1,804	3,323	34.8	33.1

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-14\2018-06-14\_003.xad

Created: 6/14/2018 3:28:19 PM  
 Modified: 6/14/2018 3:51:12 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : Sample 9**

RNA Area:	162.2	RNA Integrity Number (RIN):	9.1 (B.02.08)
RNA Concentration:	2,663 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]:	2.2	Result Flagging Label:	RIN: 9.10

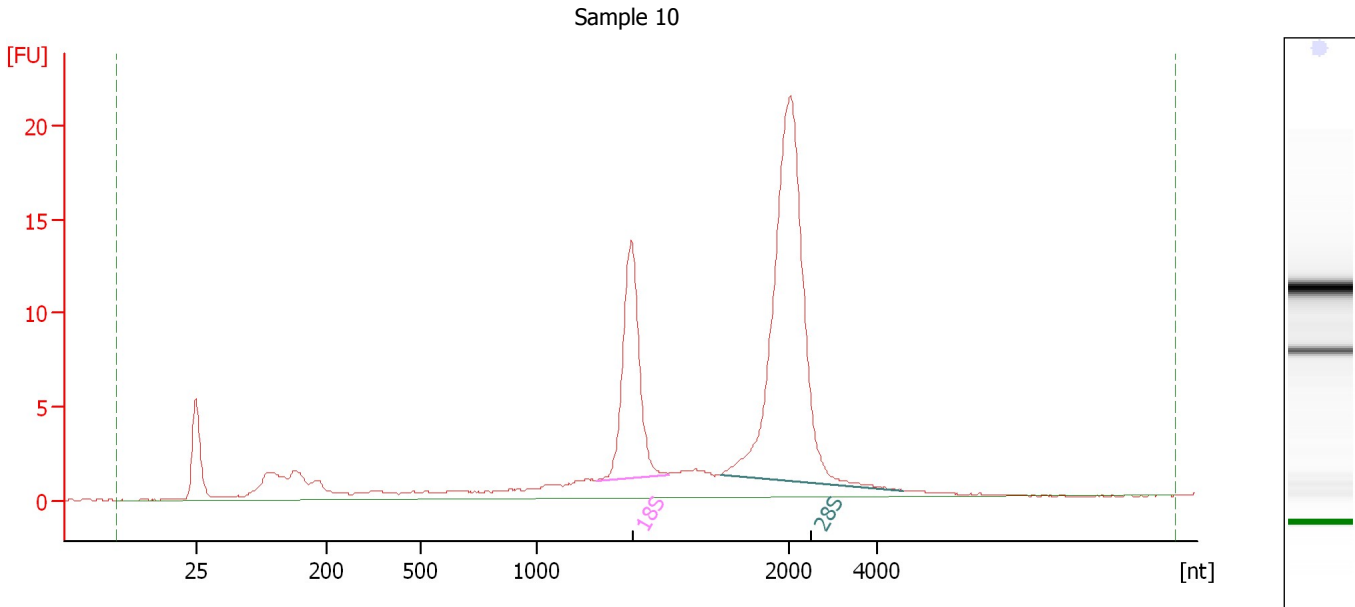
**Fragment table for sample 9 : Sample 9**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,231	1,507	27.1	16.7
28S	1,691	3,725	59.3	36.5

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-14\2018-06-14\_003.xad

Created: 6/14/2018 3:28:19 PM  
Modified: 6/14/2018 3:51:12 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : Sample 10**

RNA Area:	152.4	RNA Integrity Number (RIN):	9.7 (B.02.08)
RNA Concentration:	2,502 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]:	2.6	Result Flagging Label:	RIN: 9.70

**Fragment table for sample 10 : Sample 10**

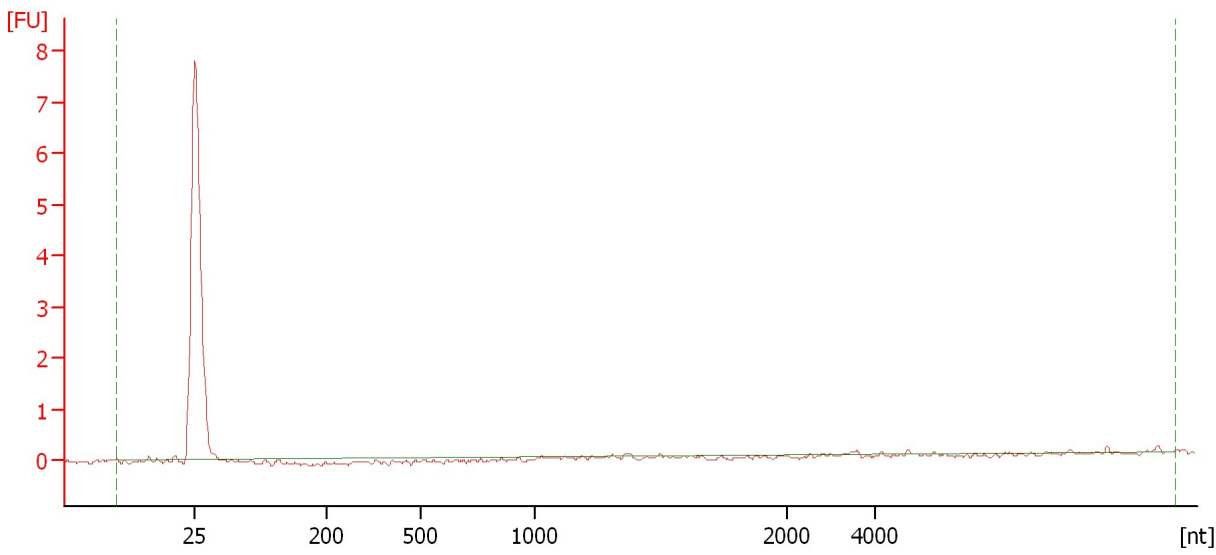
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,244	1,523	25.3	16.6
28S	1,729	4,578	65.0	42.6

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-14\2018-06-14\_003.xad

Created: 6/14/2018 3:28:19 PM  
Modified: 6/14/2018 3:51:12 PM

**Electropherogram Summary Continued ...**

Sample 11



**Overall Results for sample 11 : Sample 11**

RNA Area:	0.3	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	4 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\2018-06-14\2018-06-14\_003.xad

Created: 6/14/2018 3:28:19 PM  
Modified: 6/14/2018 3:51:12 PM

**Gel Image**

