

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...ryote Total RNA Pico\_2023-06-15\_001\_TAG214\_12-16\_RNA\_QC.xad

Created: 6/15/2023 2:42:06 PM  
 Modified: 6/15/2023 3:18:21 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 (x86)\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Eukaryote Total RNA Pico Series II.xsy

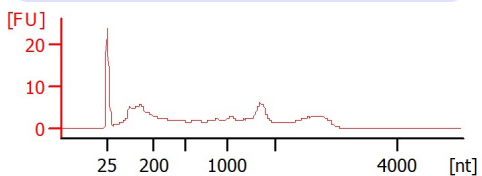
Assay Class: Eukaryote Total RNA Pico  
 Version: 2.6  
 Assay Comments: Total RNA Analysis pg sensitivity (Eukaryote)

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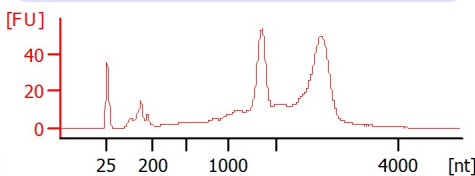
Chip Information:

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

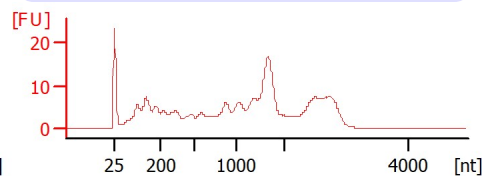
**TAG214-12**  
 RIN: 4.80



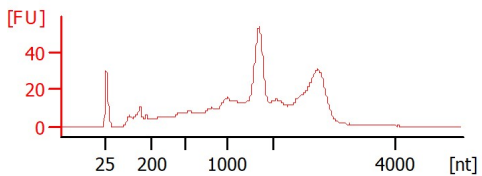
**TAG214-13**  
 RIN: 8.70



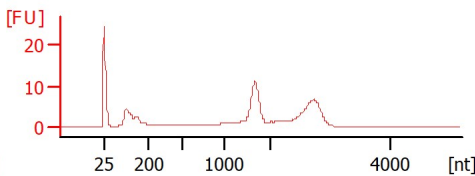
**TAG214-14**  
 RIN: 5.50



**TAG214-15**  
 RIN: 7.30



**TAG214-16**  
 RIN: 9



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

Sample Name	Sample Comment	Status	Result Label	Result Color
TAG214-12		✓	RIN: 4.80	
TAG214-13		✓	RIN: 8.70	
TAG214-14		✓	RIN: 5.50	
TAG214-15		✓	RIN: 7.30	
TAG214-16		✓	RIN:9	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

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**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/μl] : 1000  
 Lower Marker Concentration [pg/μl] : 0  
 Upper Marker Concentration [pg/μl] : 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

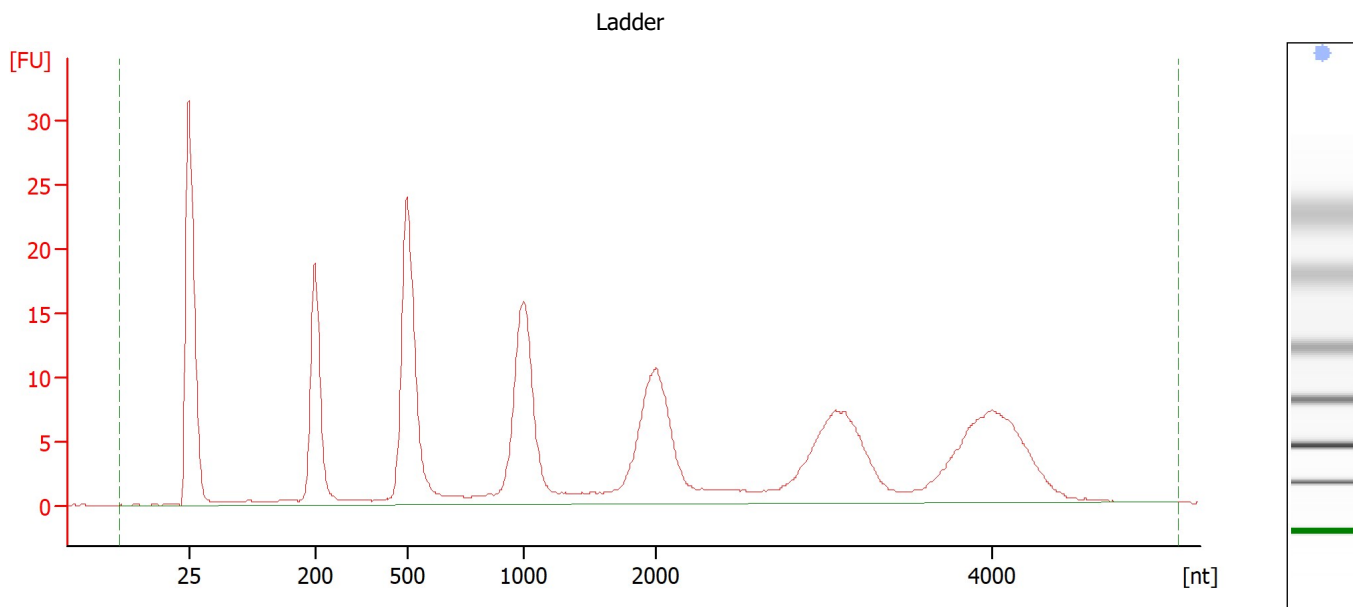
**Ladder**

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

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**Electropherogram Summary**



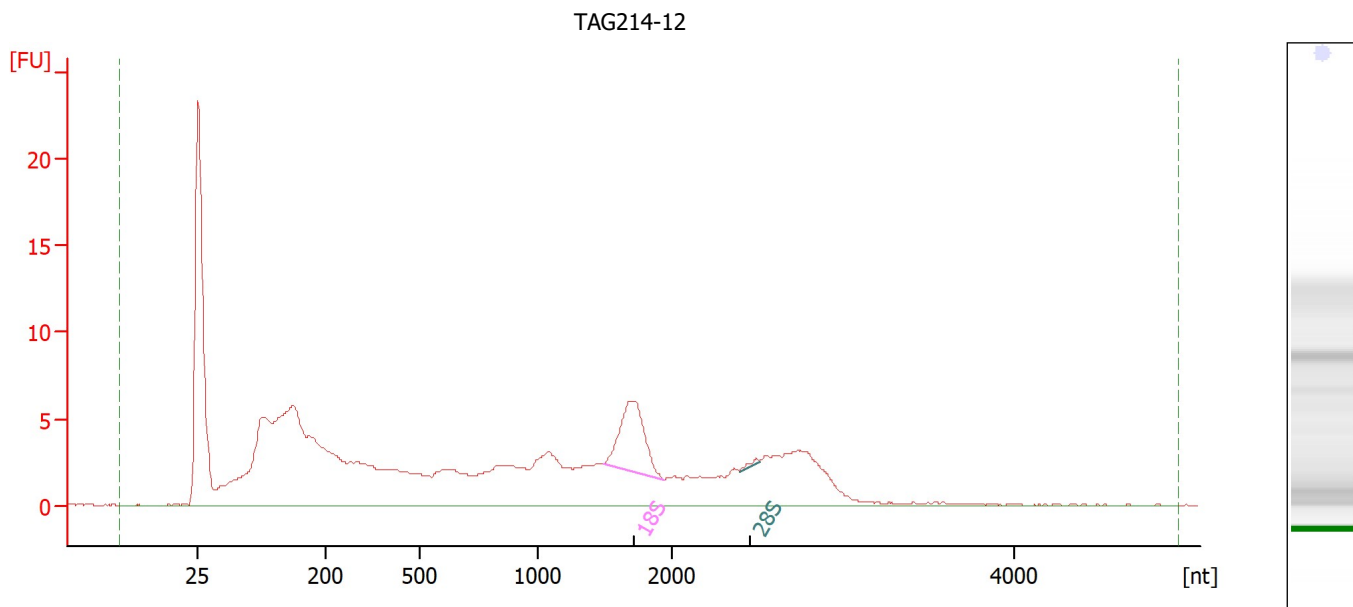
**Overall Results for Ladder**

RNA Area:	290.2	Result Flagging Color:	<span style="background-color: #6699ff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
RNA Concentration:	1,000 pg/μl	Result Flagging Label:	All Other Samples

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**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : TAG214-12**

RNA Area:	215.6	RNA Integrity Number (RIN):	4.8 (B.02.10)
RNA Concentration:	743 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: 4.80

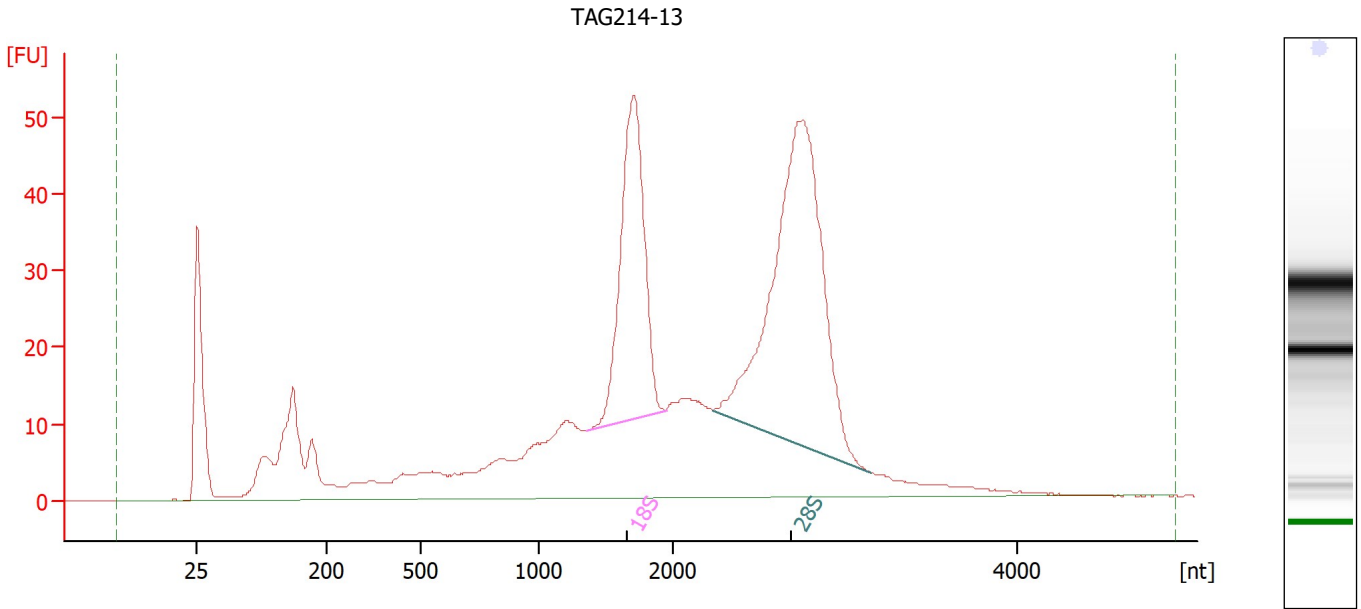
**Fragment table for sample 1 : TAG214-12**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,491	1,938	12.5	5.8
28S	2,395	2,507	0.2	0.1

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**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : TAG214-13**

RNA Area:	845.5	RNA Integrity Number (RIN):	8.7 (B.02.10)
RNA Concentration:	2,914 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]:	1.8	Result Flagging Label:	RIN: 8.70

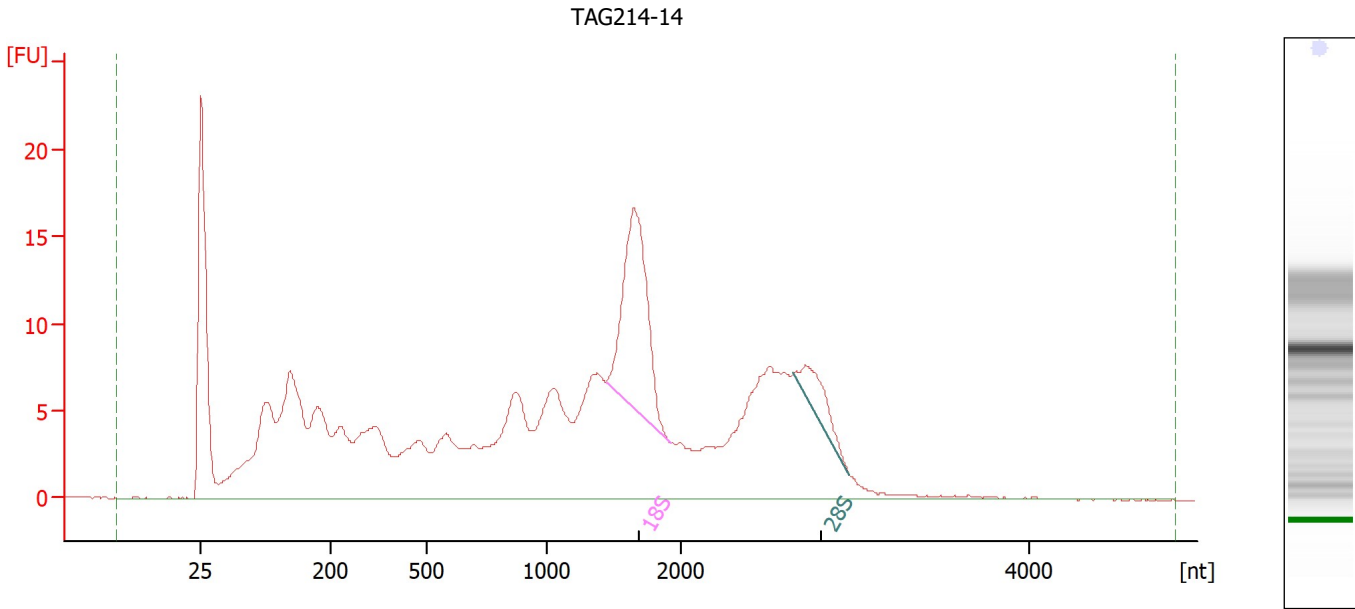
**Fragment table for sample 2 : TAG214-13**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,350	1,947	123.4	14.6
28S	2,226	3,145	222.7	26.3

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**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : TAG214-14**

RNA Area:	375.4	RNA Integrity Number (RIN):	5.5 (B.02.10)
RNA Concentration:	1,294 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]:	0.2	Result Flagging Label:	RIN: 5.50

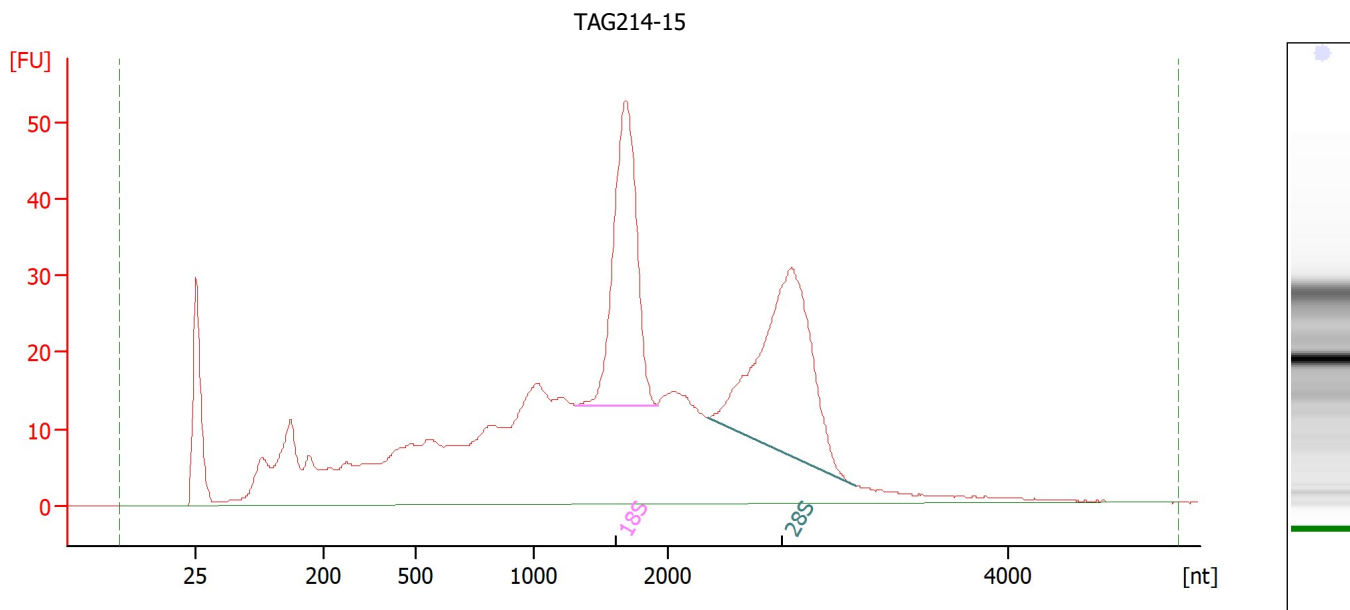
**Fragment table for sample 3 : TAG214-14**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,444	1,917	34.3	9.1
28S	2,644	2,970	6.2	1.6

Assay Class: Eukaryote Total RNA Pico  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : TAG214-15**

RNA Area: 914.0                      RNA Integrity Number (RIN): 7.3 (B.02.10)  
 RNA Concentration: 3,150 pg/μl                      Result Flagging Color:   
 rRNA Ratio [28s / 18s]: 1.2                      Result Flagging Label: RIN: 7.30

**Fragment table for sample 4 : TAG214-15**

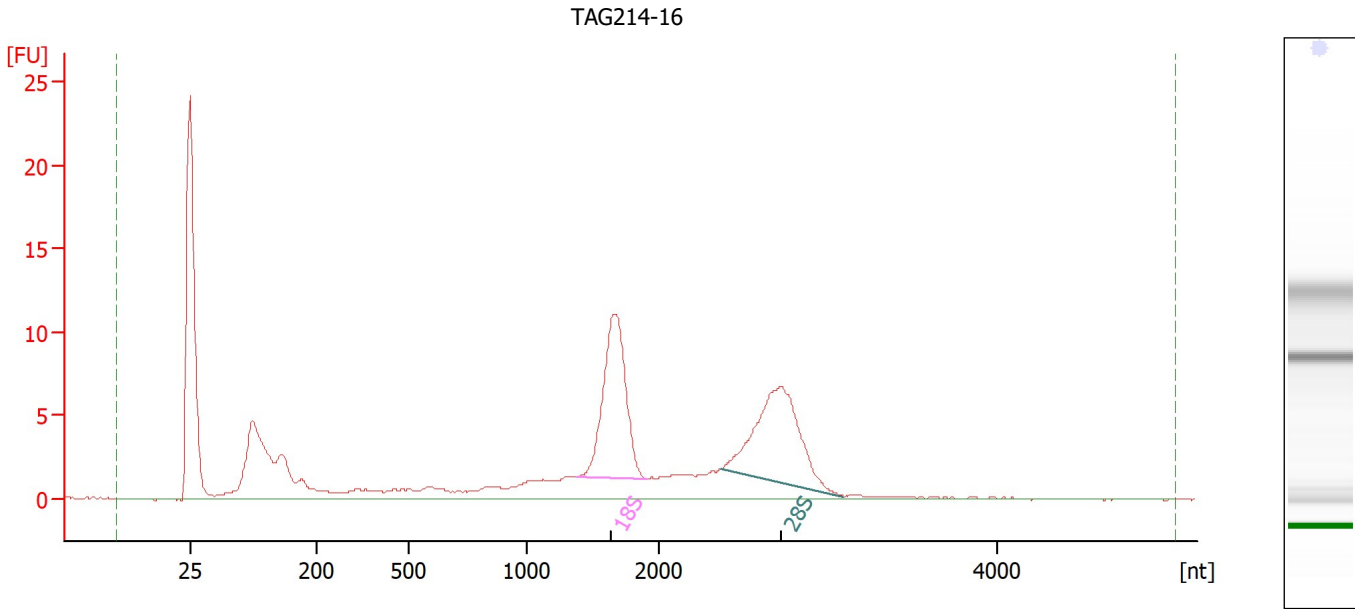
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,311	1,921	114.1	12.5
28S	2,233	3,098	134.9	14.8



Assay Class: Eukaryote Total RNA Pico  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : TAG214-16**

RNA Area:	141.3	RNA Integrity Number (RIN):	9 (B.02.10)
RNA Concentration:	487 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]:	1.0	Result Flagging Label:	RIN:9

**Fragment table for sample 5 : TAG214-16**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,379	1,912	28.0	19.8
28S	2,372	3,092	27.3	19.3

Assay Class: Eukaryote Total RNA Pico  
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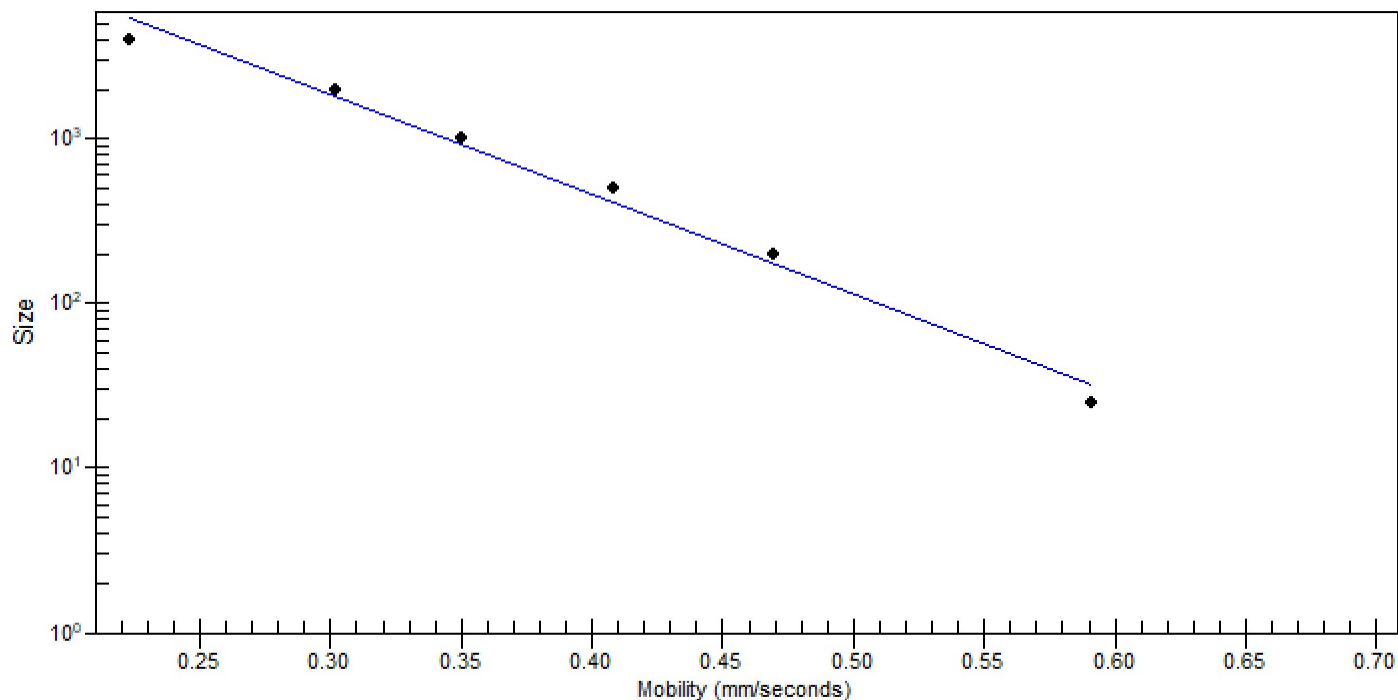
**Gel Image**

Assay Class: Eukaryote Total RNA Pico  
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**Curves**

**Standard Curve**



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**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		6/15/2023 3:05:00 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: C:\Users\sbsuser\Desktop\2023-06-15\Bioanalyzer1_Eukaryote Total RNA Pico_2023-06-15_001.xad)		Instrument	Run		6/15/2023 2:42:12 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		6/15/2023 2:42:12 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		6/15/2023 2:42:12 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		6/15/2023 2:42:12 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		6/15/2023 2:42:12 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		6/15/2023 2:42:12 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		6/15/2023 2:42:12 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB