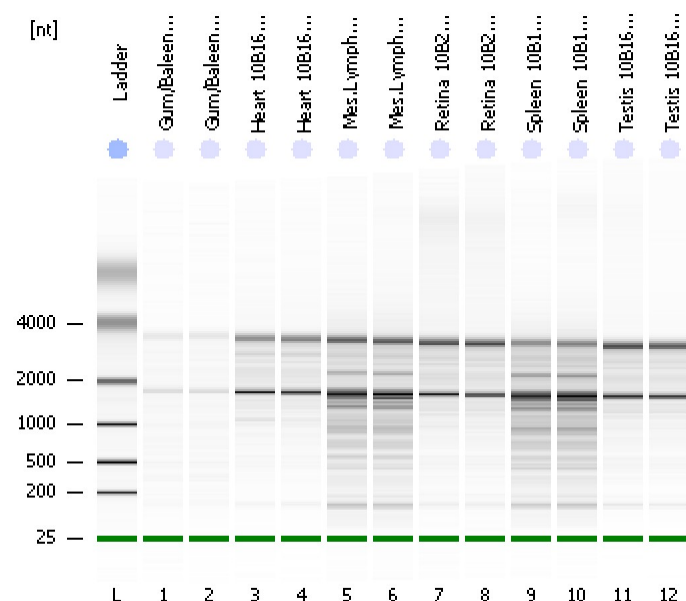


Assay Class: Eukaryote Total RNA Nano
Data Path: D:\...Eukaryote Total RNA Nano_DE24802235_2011-05-23_17-53-13.xad

Created: 5/23/2011 5:53:13 PM
Modified: 5/23/2011 6:28:55 PM

Electrophoresis File Run SummaryInstrument Information:

Instrument Name: Ann's baby

Firmware: C.01.069

Serial#: DE24802235

Type: G2938B

Assay Information:

Assay Origin Path: D:\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)

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Chip Information:

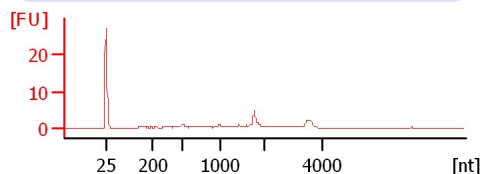
Chip Lot #:

Reagent Kit Lot #:

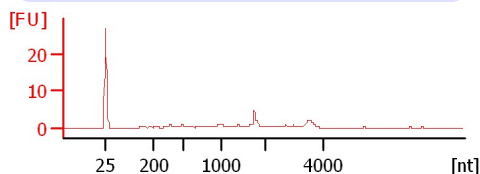
Chip Comments:

Gum/Baleen 10B22-A Initial Sample

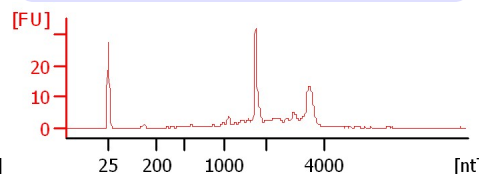
RIN: 7.40

**Gum/Baleen 10B22-B Initial Sample**

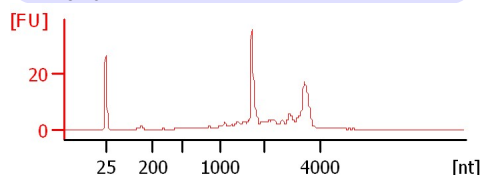
RIN: 7.10

**Heart 10B16-A Initial Sample**

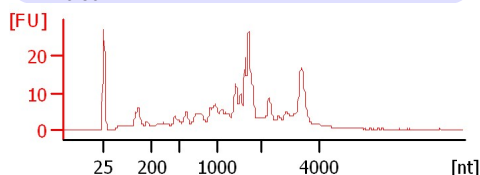
RIN: 8

**Heart 10B16-B Initial Sample**

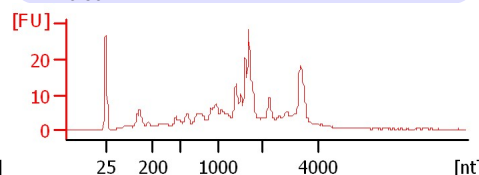
RIN: 8.10

**Mes.LymphNode 10B22-A Initial Sample**

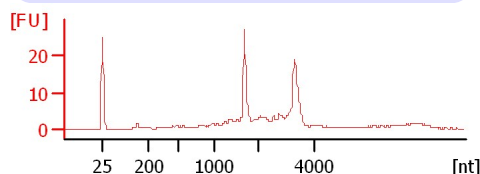
RIN: 6.80

**Mes.LymphNode 10B22-B Initial Sample**

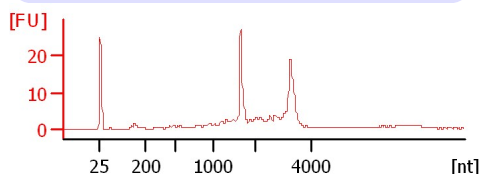
RIN: 6.80

**Retina 10B20-A Initial Sample**

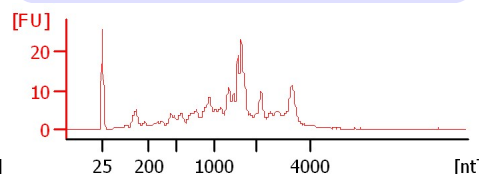
RIN: 8.20

**Retina 10B20-B Initial Sample**

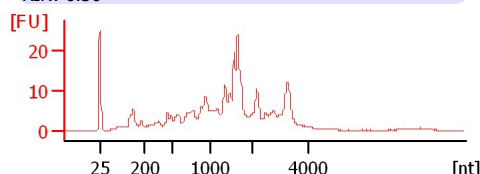
RIN: 8.20

**Spleen 10B18-A Initial Sample**

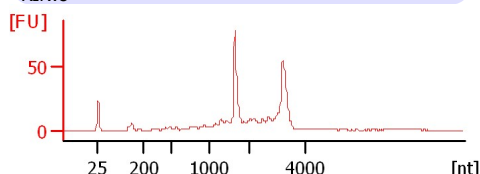
RIN: 6.40

**Spleen 10B18-B Initial Sample**

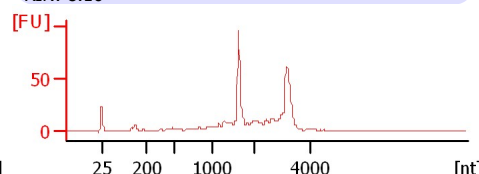
RIN: 6.30

**Testis 10B16-A Initial Sample**

RIN: 8

**Testis 10B16-B Initial Sample**

RIN: 8.10



Assay Class: Eukaryote Total RNA Nano
Data Path: D:\...\Eukaryote Total RNA Nano_DE24802235_2011-05-23_17-53-13.xad

Created: 5/23/2011 5:53:13 PM
Modified: 5/23/2011 6:28:55 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
Gum/Baleen 10B22-A Initial Sample		✓	RIN: 7.40	
Gum/Baleen 10B22-B Initial Sample		✓	RIN: 7.10	
Heart 10B16-A Initial Sample		✓	RIN: 8	
Heart 10B16-B Initial Sample		✓	RIN: 8.10	
Mes.LymphNode 10B22-A Initial Sample		✓	RIN: 6.80	
Mes.LymphNode 10B22-B Initial Sample		✓	RIN: 6.80	
Retina 10B20-A Initial Sample		✓	RIN: 8.20	
Retina 10B20-B Initial Sample		✓	RIN: 8.20	
Spleen 10B18-A Initial Sample		✓	RIN: 6.40	
Spleen 10B18-B Initial Sample		✓	RIN: 6.30	
Testis 10B16-A Initial Sample		✓	RIN: 8	
Testis 10B16-B Initial Sample		✓	RIN: 8.10	
Ladder		✓	All Other Samples	

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

Assay Class: Eukaryote Total RNA Nano
Data Path: D:\...Eukaryote Total RNA Nano_DE24802235_2011-05-23_17-53-13.xad

Created: 5/23/2011 5:53:13 PM
Modified: 5/23/2011 6:28:55 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/μl] : 150

Lower Marker Concentration [ng/μl] : 0

Upper Marker Concentration [ng/μl] : 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

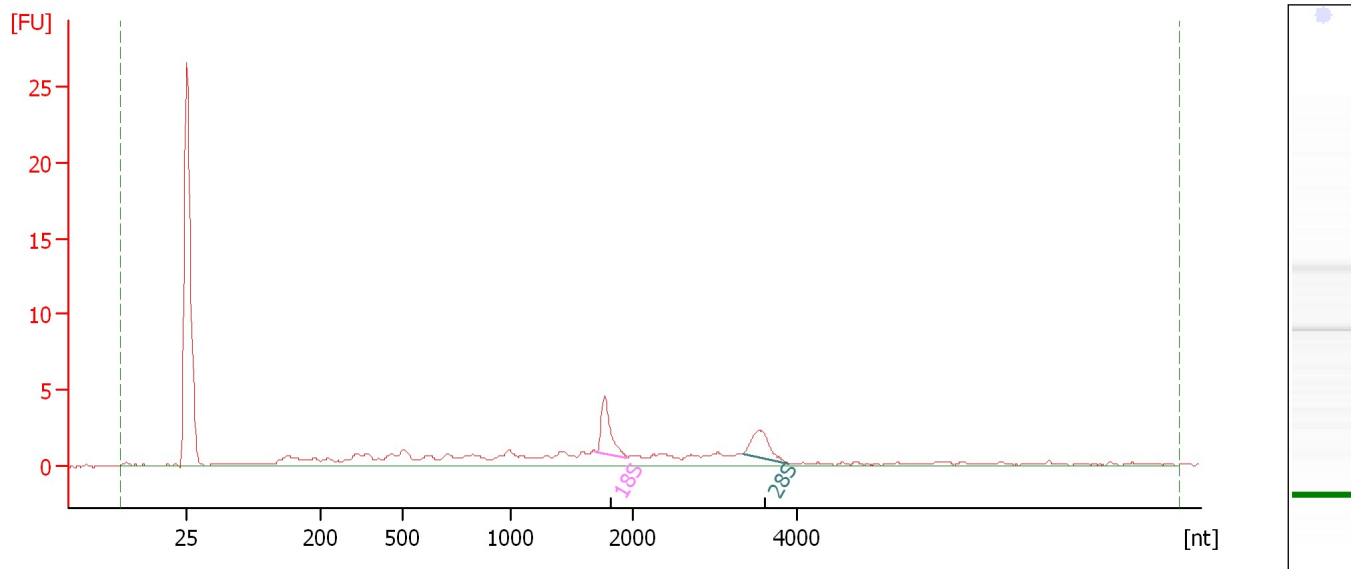
Ladder Peak	Size
1	25
2	200
3	500
4	1000
5	2000
6	4000

Assay Class: Eukaryote Total RNA Nano
Data Path: D:\...Eukaryote Total RNA Nano_DE24802235_2011-05-23_17-53-13.xad

Created: 5/23/2011 5:53:13 PM
Modified: 5/23/2011 6:28:55 PM

Electropherogram Summary

Gum/Baleen 10B22-A Initial Sample

**Overall Results for sample 1 : Gum/Baleen 10B22-A Initial Sample**

RNA Area:	49.3	RNA Integrity Number (RIN):	7.4 (B.02.08)
RNA Concentration:	18 ng/μl	Result Flagging Color:	
rRNA Ratio [28S / 18S]:	0.8	Result Flagging Label:	RIN: 7.40

Fragment table for sample 1 : Gum/Baleen 10B22-A Initial Sample

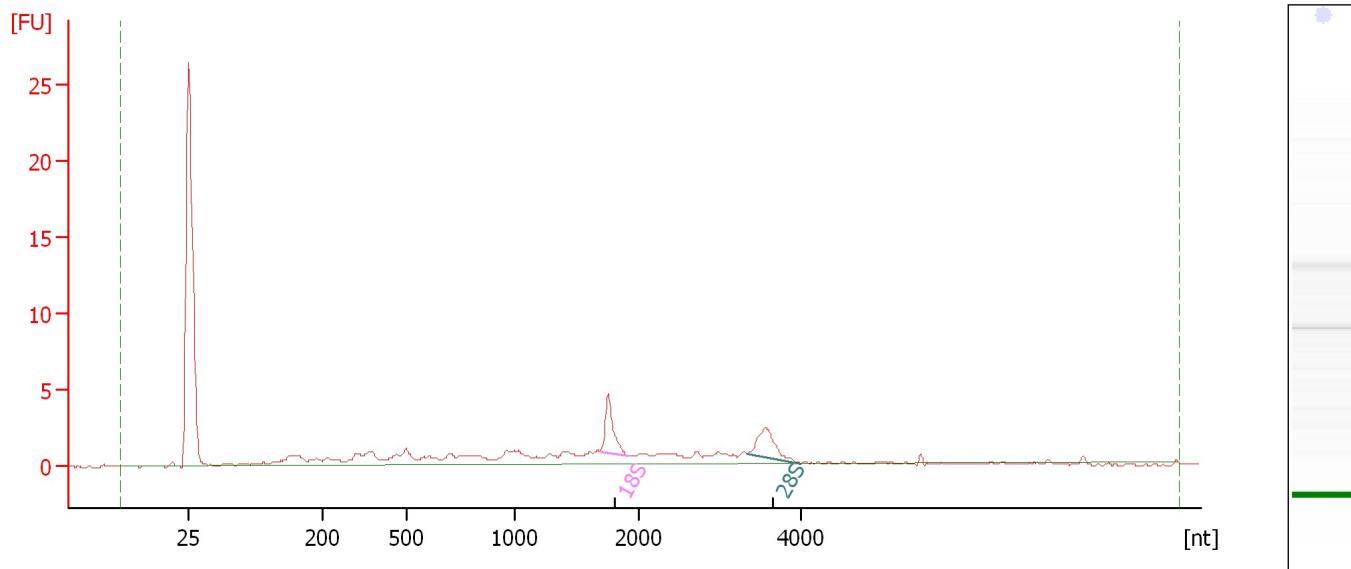
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,685	1,948	4.2	8.6
28S	3,340	3,917	3.6	7.2

Assay Class: Eukaryote Total RNA Nano
Data Path: D:\...Eukaryote Total RNA Nano_DE24802235_2011-05-23_17-53-13.xad

Created: 5/23/2011 5:53:13 PM
Modified: 5/23/2011 6:28:55 PM

Electropherogram Summary Continued ...

Gum/Baleen 10B22-B Initial Sample

**Overall Results for sample 2 : Gum/Baleen 10B22-B Initial Sample**

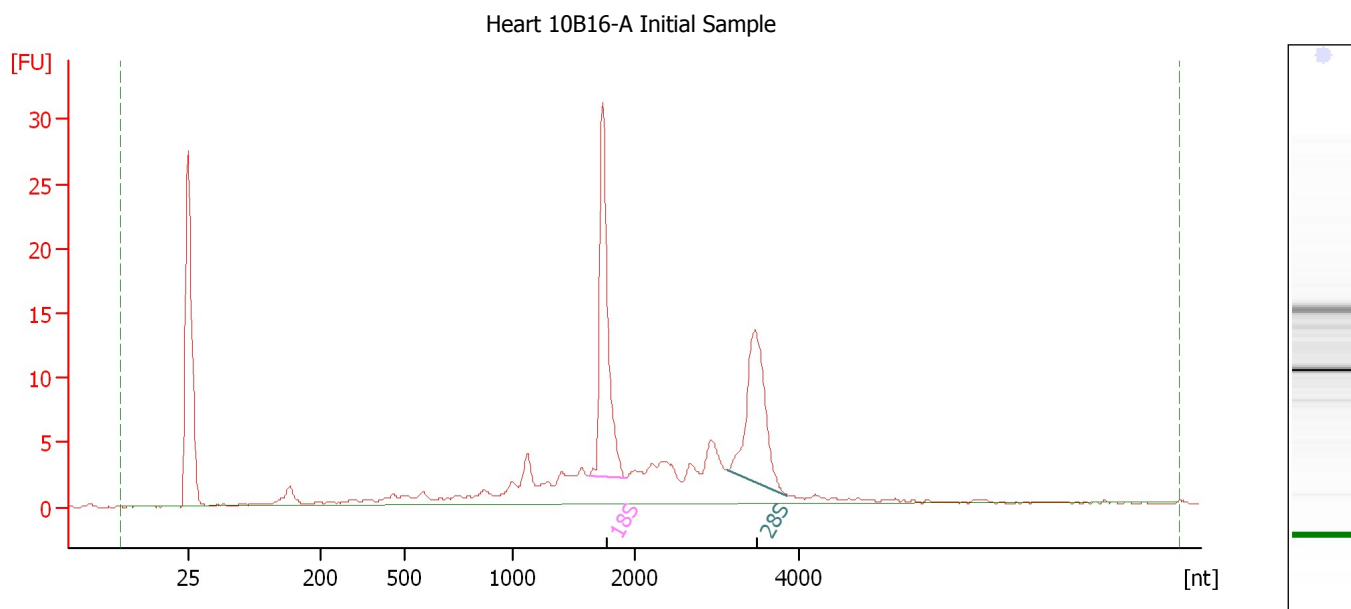
RNA Area:	42.5	RNA Integrity Number (RIN):	7.1 (B.02.08)
RNA Concentration:	15 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.9	Result Flagging Label:	RIN: 7.10

Fragment table for sample 2 : Gum/Baleen 10B22-B Initial Sample

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,696	1,923	3.9	9.2
28S	3,336	3,989	3.4	8.0

Assay Class: Eukaryote Total RNA Nano
Data Path: D:\...Eukaryote Total RNA Nano_DE24802235_2011-05-23_17-53-13.xad

Created: 5/23/2011 5:53:13 PM
Modified: 5/23/2011 6:28:55 PM

Electropherogram Summary Continued ...**Overall Results for sample 3 : Heart 10B16-A Initial Sample**

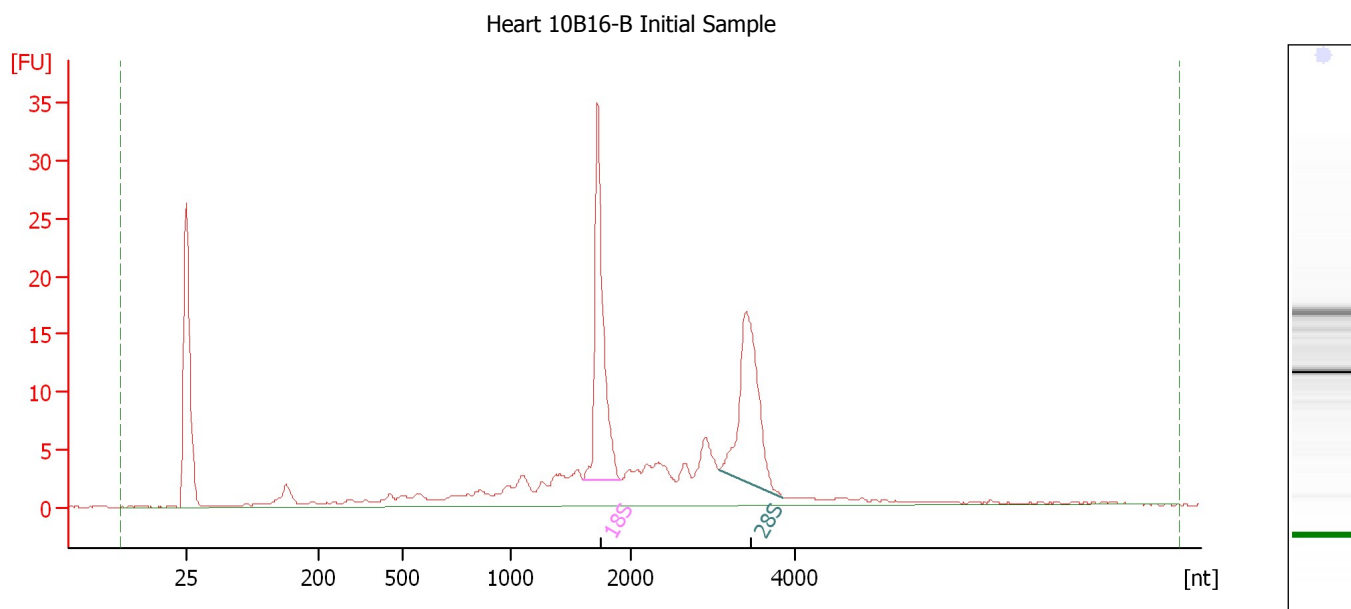
RNA Area: 143.5 RNA Integrity Number (RIN): 8 (B.02.08)
RNA Concentration: 52 ng/μl Result Flagging Color:
rRNA Ratio [28S / 18S]: 0.8 Result Flagging Label: RIN:8

Fragment table for sample 3 : Heart 10B16-A Initial Sample

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,608	1,922	28.9	20.1
28S	3,115	3,862	24.1	16.8

Assay Class: Eukaryote Total RNA Nano
Data Path: D:\...Eukaryote Total RNA Nano_DE24802235_2011-05-23_17-53-13.xad

Created: 5/23/2011 5:53:13 PM
Modified: 5/23/2011 6:28:55 PM

Electropherogram Summary Continued ...**Overall Results for sample 4 : Heart 10B16-B Initial Sample**

RNA Area:	176.7	RNA Integrity Number (RIN):	8.1 (B.02.08)
RNA Concentration:	64 ng/μl	Result Flagging Color:	
rRNA Ratio [28S / 18S]:	0.9	Result Flagging Label:	RIN: 8.10

Fragment table for sample 4 : Heart 10B16-B Initial Sample

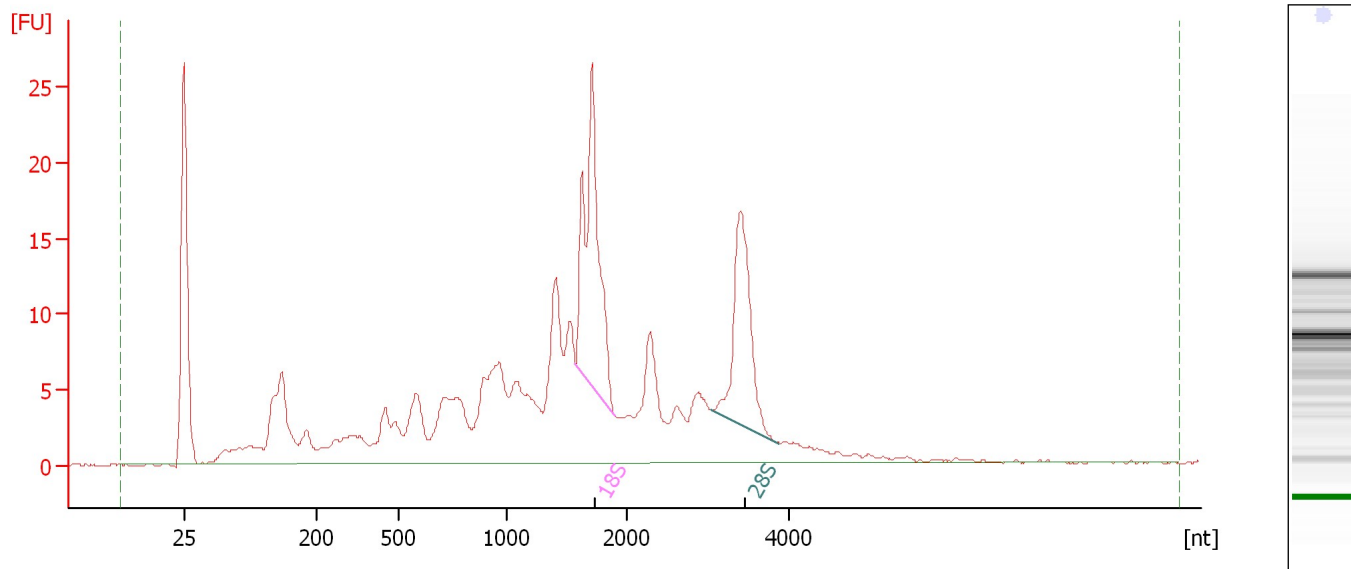
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,605	1,912	34.8	19.7
28S	3,078	3,855	30.5	17.3

Assay Class: Eukaryote Total RNA Nano
Data Path: D:\...Eukaryote Total RNA Nano_DE24802235_2011-05-23_17-53-13.xad

Created: 5/23/2011 5:53:13 PM
Modified: 5/23/2011 6:28:55 PM

Electropherogram Summary Continued ...

Mes.LymphNode 10B22-A Initial Sample

**Overall Results for sample 5 : Mes.LymphNode 10B22-A Initial Sample**

RNA Area:	313.7	RNA Integrity Number (RIN):	6.8 (B.02.08)
RNA Concentration:	114 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.7	Result Flagging Label:	RIN: 6.80

Fragment table for sample 5 : Mes.LymphNode 10B22-A Initial Sample

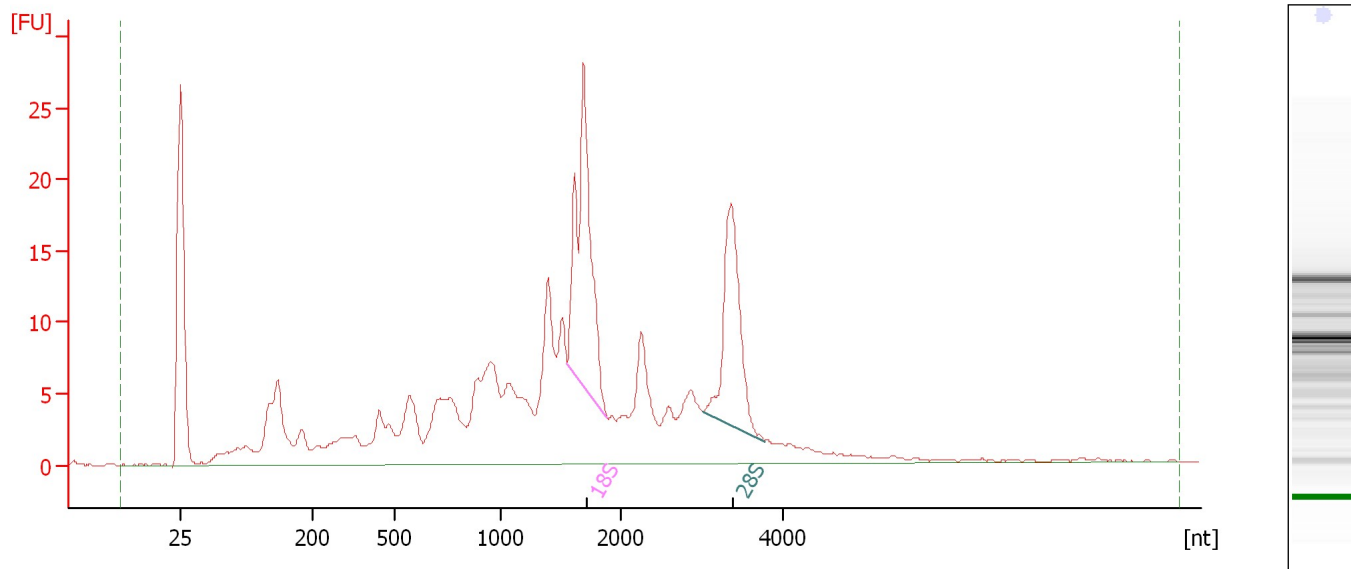
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,566	1,892	38.8	12.4
28S	3,028	3,874	26.5	8.4

Assay Class: Eukaryote Total RNA Nano
Data Path: D:\...Eukaryote Total RNA Nano_DE24802235_2011-05-23_17-53-13.xad

Created: 5/23/2011 5:53:13 PM
Modified: 5/23/2011 6:28:55 PM

Electropherogram Summary Continued ...

Mes.LymphNode 10B22-B Initial Sample

**Overall Results for sample 6 : Mes.LymphNode 10B22-B Initial Sample**

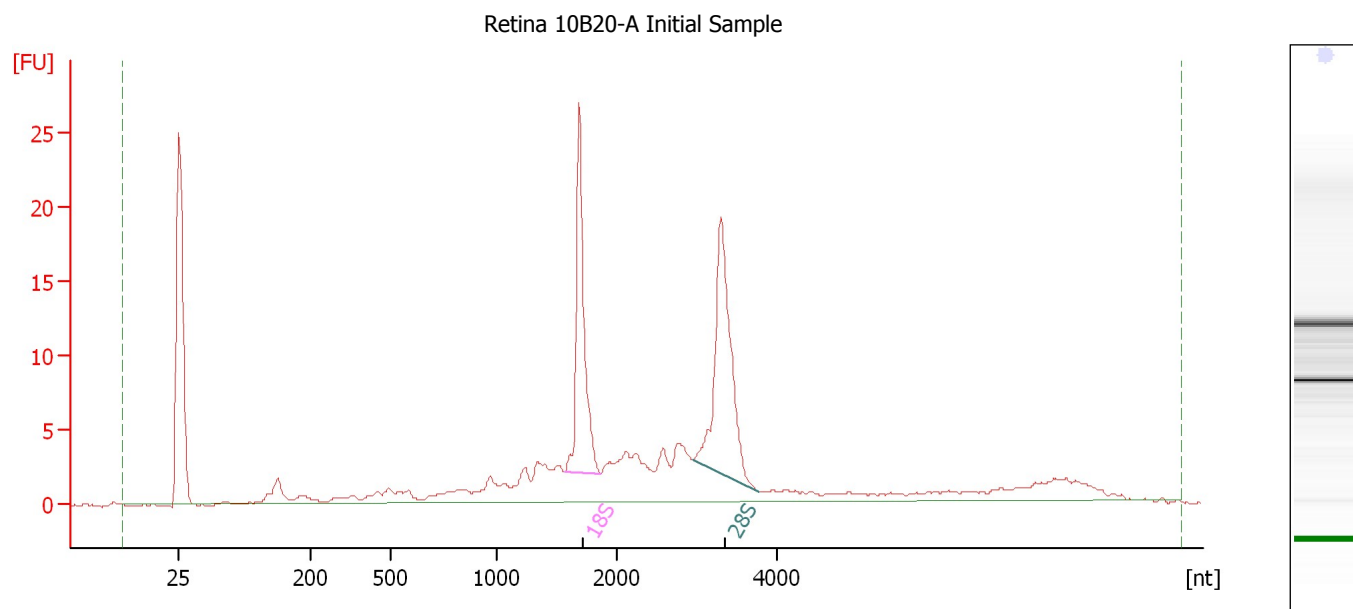
RNA Area: 328.7 RNA Integrity Number (RIN): 6.8 (B.02.08)
RNA Concentration: 119 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.7 Result Flagging Label: RIN: 6.80

Fragment table for sample 6 : Mes.LymphNode 10B22-B Initial Sample

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,553	1,881	40.7	12.4
28S	3,019	3,777	28.1	8.6

Assay Class: Eukaryote Total RNA Nano
Data Path: D:\...Eukaryote Total RNA Nano_DE24802235_2011-05-23_17-53-13.xad

Created: 5/23/2011 5:53:13 PM
Modified: 5/23/2011 6:28:55 PM

Electropherogram Summary Continued ...**Overall Results for sample 7 : Retina 10B20-A Initial Sample**

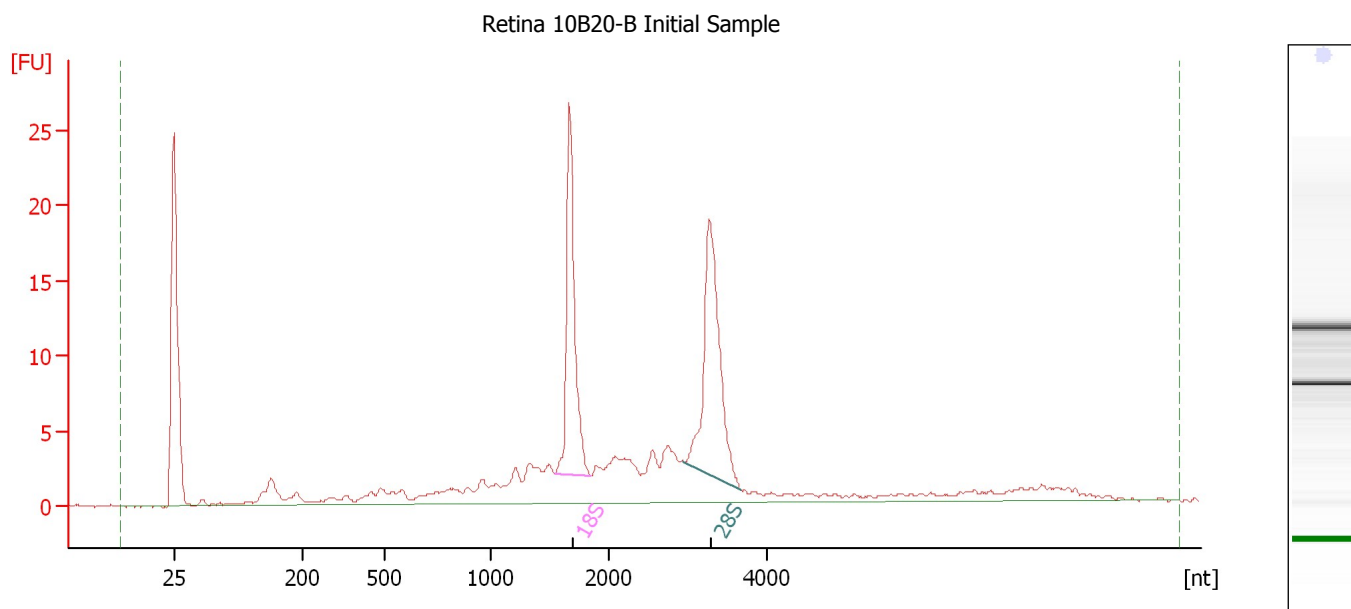
RNA Area:	162.5	RNA Integrity Number (RIN):	8.2 (B.02.08)
RNA Concentration:	59 ng/μl	Result Flagging Color:	
rRNA Ratio [28S / 18S]:	1.2	Result Flagging Label:	RIN: 8.20

Fragment table for sample 7 : Retina 10B20-A Initial Sample

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,557	1,860	25.7	15.8
28S	2,956	3,786	31.3	19.3

Assay Class: Eukaryote Total RNA Nano
Data Path: D:\...Eukaryote Total RNA Nano_DE24802235_2011-05-23_17-53-13.xad

Created: 5/23/2011 5:53:13 PM
Modified: 5/23/2011 6:28:55 PM

Electropherogram Summary Continued ...**Overall Results for sample 8 : Retina 10B20-B Initial Sample**

RNA Area:	152.6	RNA Integrity Number (RIN):	8.2 (B.02.08)
RNA Concentration:	55 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.2	Result Flagging Label:	RIN: 8.20

Fragment table for sample 8 : Retina 10B20-B Initial Sample

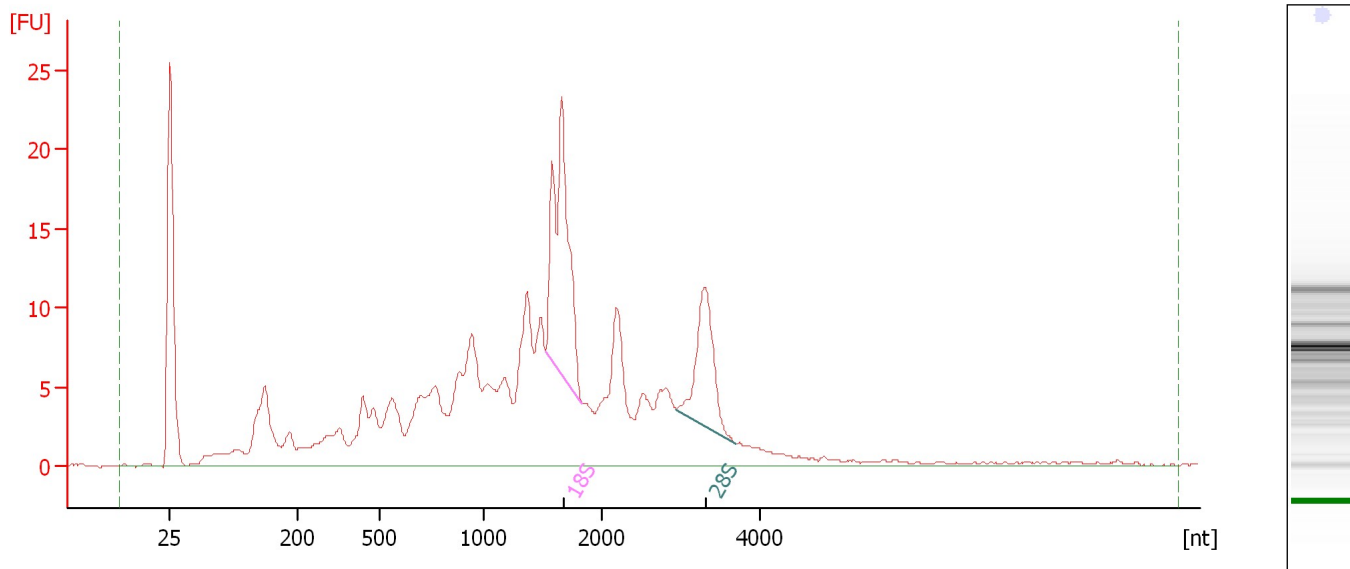
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,542	1,839	25.0	16.4
28S	2,932	3,674	30.9	20.3

Assay Class: Eukaryote Total RNA Nano
Data Path: D:\...Eukaryote Total RNA Nano_DE24802235_2011-05-23_17-53-13.xad

Created: 5/23/2011 5:53:13 PM
Modified: 5/23/2011 6:28:55 PM

Electropherogram Summary Continued ...

Spleen 10B18-A Initial Sample

**Overall Results for sample 9 : Spleen 10B18-A Initial Sample**

RNA Area:	314.7	RNA Integrity Number (RIN):	6.4 (B.02.08)
RNA Concentration:	114 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.5	Result Flagging Label:	RIN: 6.40

Fragment table for sample 9 : Spleen 10B18-A Initial Sample

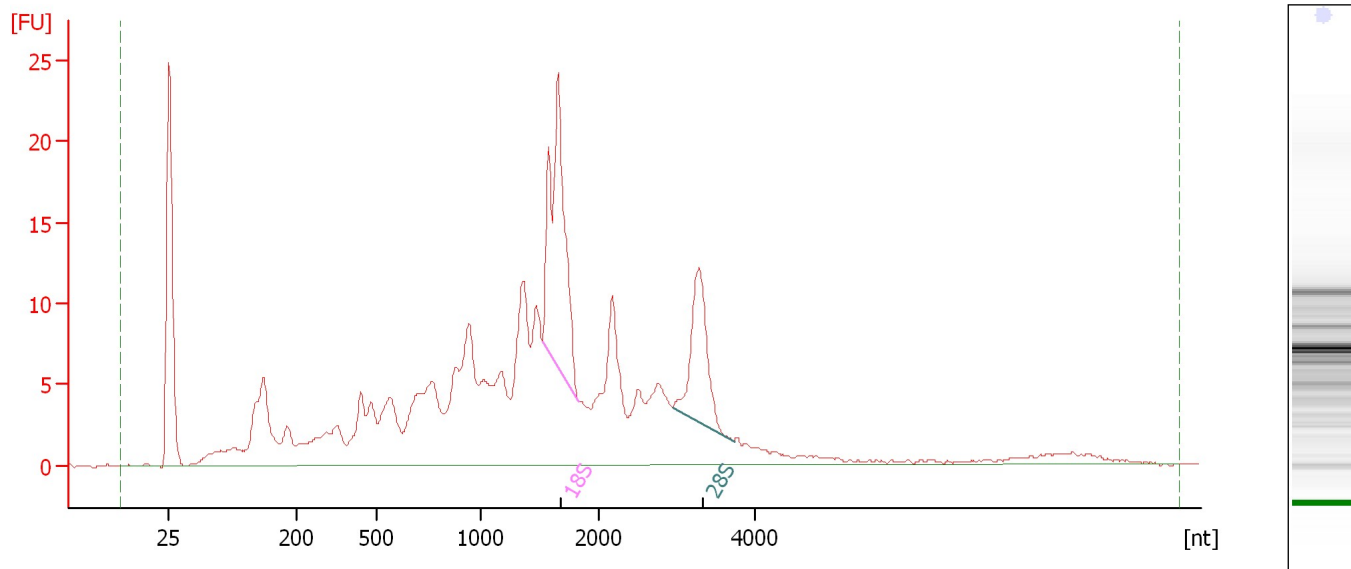
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,519	1,836	34.5	11.0
28S	2,949	3,696	17.2	5.5

Assay Class: Eukaryote Total RNA Nano
Data Path: D:\...Eukaryote Total RNA Nano_DE24802235_2011-05-23_17-53-13.xad

Created: 5/23/2011 5:53:13 PM
Modified: 5/23/2011 6:28:55 PM

Electropherogram Summary Continued ...

Spleen 10B18-B Initial Sample

**Overall Results for sample 10 : Spleen 10B18-B Initial Sample**

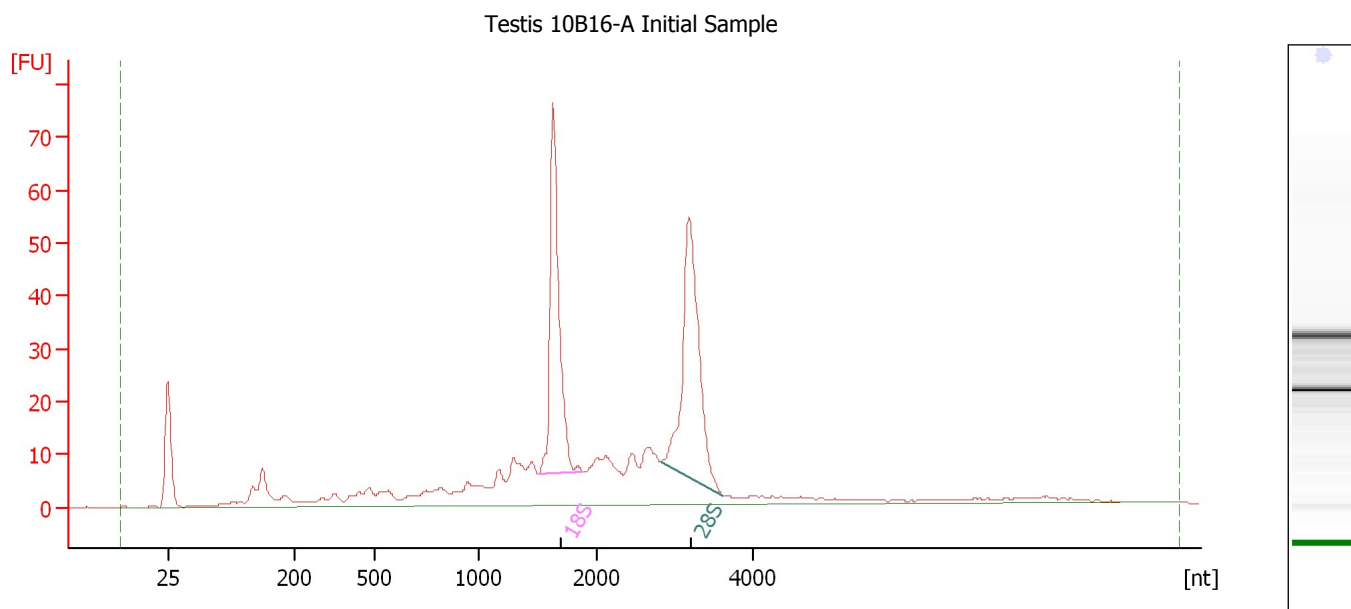
RNA Area: 327.7 RNA Integrity Number (RIN): 6.3 (B.02.08)
RNA Concentration: 119 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.5 Result Flagging Label: RIN: 6.30

Fragment table for sample 10 : Spleen 10B18-B Initial Sample

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,516	1,825	35.3	10.8
28S	2,938	3,729	17.5	5.3

Assay Class: Eukaryote Total RNA Nano
Data Path: D:\...Eukaryote Total RNA Nano_DE24802235_2011-05-23_17-53-13.xad

Created: 5/23/2011 5:53:13 PM
Modified: 5/23/2011 6:28:55 PM

Electropherogram Summary Continued ...**Overall Results for sample 11 : Testis 10B16-A Initial Sample**

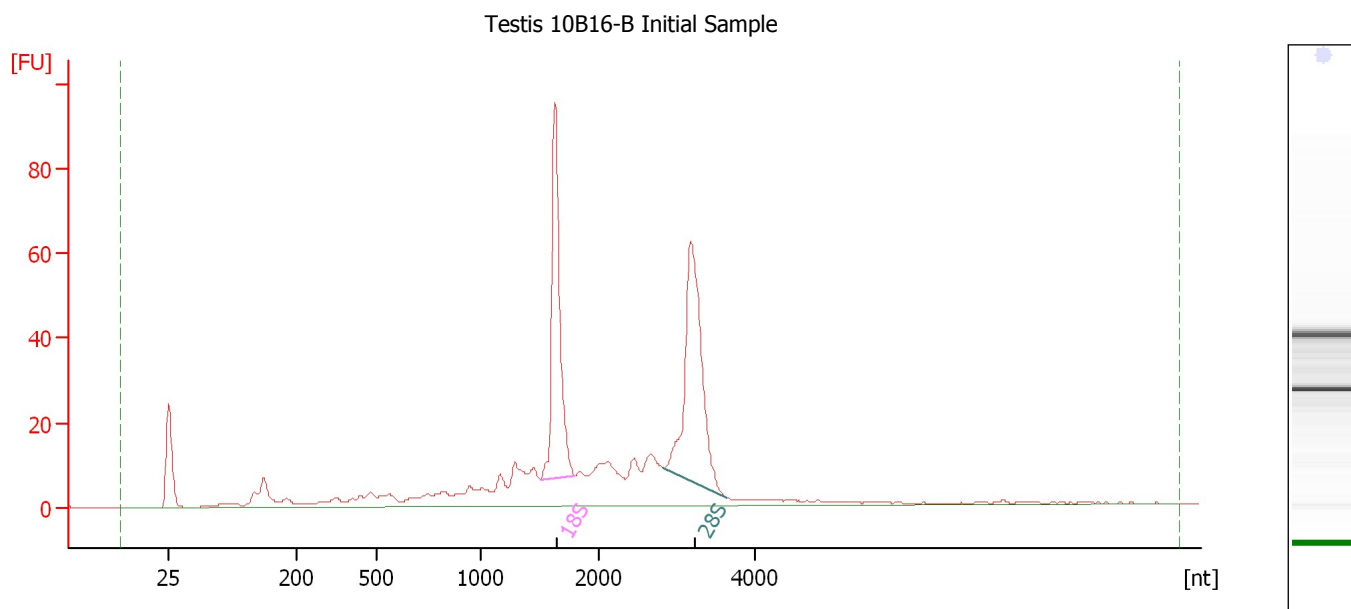
RNA Area:	472.6	RNA Integrity Number (RIN):	8 (B.02.08)
RNA Concentration:	171 ng/μl	Result Flagging Color:	
rRNA Ratio [28S / 18S]:	1.2	Result Flagging Label:	RIN:8

Fragment table for sample 11 : Testis 10B16-A Initial Sample

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,505	1,888	81.9	17.3
28S	2,816	3,609	95.4	20.2

Assay Class: Eukaryote Total RNA Nano
Data Path: D:\...Eukaryote Total RNA Nano_DE24802235_2011-05-23_17-53-13.xad

Created: 5/23/2011 5:53:13 PM
Modified: 5/23/2011 6:28:55 PM

Electropherogram Summary Continued ...**Overall Results for sample 12 : Testis 10B16-B Initial Sample**

RNA Area:	507.0	RNA Integrity Number (RIN):	8.1 (B.02.08)
RNA Concentration:	184 ng/ μ l	Result Flagging Color:	
rRNA Ratio [28S / 18S]:	1.2	Result Flagging Label:	RIN: 8.10

Fragment table for sample 12 : Testis 10B16-B Initial Sample

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,497	1,798	91.6	18.1
28S	2,829	3,634	111.9	22.1

Assay Class: Eukaryote Total RNA Nano
Data Path: D:\...Eukaryote Total RNA Nano_DE24802235_2011-05-23_17-53-13.xad

Created: 5/23/2011 5:53:13 PM
Modified: 5/23/2011 6:28:55 PM

Gel Image