

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2012-12-21\2012-12-21\_004.xad

Created: 12/21/2012 2:43:19 PM  
Modified: 12/21/2012 3:07:09 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)

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Chip Information:

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

<b>Sample 1</b> RIN: 8.50	<b>Sample 2</b> RIN N/A	<b>Sample 3</b> RIN: 9.70
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<b>Sample 4</b> RIN:10	<b>Sample 5</b> RIN: 8.80	<b>Sample 6</b> RIN: 9.50
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<b>Sample 7</b> RIN: 9.90	<b>Sample 8</b> RIN: 9.90	<b>Sample 9</b> RIN:10
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<b>Sample 10</b> RIN: 9.40	<b>Sample 11</b> RIN: 9.50	<b>Sample 12</b> RIN: 9.90
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**Electrophoresis File Run Summary (Chip Summary)**

Sample Name	Sample Comment	Status	Result Label	Result Color
Sample 1			RIN: 8.50	
Sample 2			RIN N/A	
Sample 3			RIN: 9.70	
Sample 4			RIN:10	
Sample 5			RIN: 8.80	
Sample 6			RIN: 9.50	
Sample 7			RIN: 9.90	
Sample 8			RIN: 9.90	
Sample 9			RIN:10	
Sample 10			RIN: 9.40	
Sample 11			RIN: 9.50	
Sample 12			RIN: 9.90	
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.) : 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

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**Electropherogram Summary**

Ladder



**Overall Results for Ladder**

RNA Area: 319.6  
RNA Concentration: 150 ng/μl

Result Flagging Color:   
Result Flagging Label: All Other Samples

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**Electropherogram Summary Continued ...**

Sample 1

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

RNA Area:	59.6	RNA Integrity Number (RIN):	8.5 (B.02.08)
RNA Concentration:	28 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.5	Result Flagging Label:	RIN: 8.50

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

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,166	4,531	9.2	15.4
28S	6,714	8,499	13.9	23.3

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**Electropherogram Summary Continued ...**

Sample 2



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

RNA Area:	9.2	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	4 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

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

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,617	4,367	0.6	7.0

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**Electropherogram Summary Continued ...**

Sample 3

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

RNA Area:	232.9	RNA Integrity Number (RIN):	9.7 (B.02.08)
RNA Concentration:	109 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.6	Result Flagging Label:	RIN: 9.70

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

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,083	4,307	51.9	22.3
28S	6,070	7,937	85.6	36.7

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**Electropherogram Summary Continued ...**

Sample 4

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

RNA Area:	541.0	RNA Integrity Number (RIN):	10 (B.02.08)
RNA Concentration:	254 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.9	Result Flagging Label:	RIN:10

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

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,013	4,305	131.4	24.3
28S	6,471	7,970	243.4	45.0



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**Electropherogram Summary Continued ...**

Sample 5

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

RNA Area:	280.7	RNA Integrity Number (RIN):	8.8 (B.02.08)
RNA Concentration:	132 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.6	Result Flagging Label:	RIN: 8.80

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

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,061	4,279	50.4	18.0
28S	6,504	8,037	81.2	28.9

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**Electropherogram Summary Continued ...**

Sample 6

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

RNA Area:	571.9	RNA Integrity Number (RIN):	9.5 (B.02.08)
RNA Concentration:	268 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.6	Result Flagging Label:	RIN: 9.50

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

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,029	4,085	126.2	22.1
28S	6,429	7,845	197.4	34.5

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**Electropherogram Summary Continued ...**

Sample 7

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

RNA Area:	263.3	RNA Integrity Number (RIN):	9.9 (B.02.08)
RNA Concentration:	124 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.9	Result Flagging Label:	RIN: 9.90

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

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,017	4,229	60.3	22.9
28S	6,332	7,905	115.2	43.7

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**Electropherogram Summary Continued ...**

Sample 8

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

RNA Area:	563.0	RNA Integrity Number (RIN):	9.9 (B.02.08)
RNA Concentration:	264 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.9	Result Flagging Label:	RIN: 9.90

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

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,941	4,117	122.0	21.7
28S	6,256	7,688	228.7	40.6

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**Electropherogram Summary Continued ...**

Sample 9



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

RNA Area:	542.3	RNA Integrity Number (RIN):	10 (B.02.08)
RNA Concentration:	255 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]:	1.9	Result Flagging Label:	RIN:10

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

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,933	4,071	118.6	21.9
28S	6,240	7,700	230.6	42.5

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**Electropherogram Summary Continued ...**

Sample 10



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

RNA Area:	463.2	RNA Integrity Number (RIN):	9.4 (B.02.08)
RNA Concentration:	217 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.7	Result Flagging Label:	RIN: 9.40

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

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,860	4,025	87.6	18.9
28S	6,224	7,560	148.2	32.0

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**Electropherogram Summary Continued ...**

Sample 11



**Fragment table for sample 11 : Sample 11**

<b>Name</b>	<b>Start Size [nt]</b>	<b>End Size [nt]</b>	<b>Area</b>	<b>% of total Area</b>
18S	2,895	4,086	70.7	20.1
28S	6,251	7,593	123.4	35.1

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**Electropherogram Summary Continued ...****Fragment table for sample 12 : Sample 12**

<b>Name</b>	<b>Start Size [nt]</b>	<b>End Size [nt]</b>	<b>Area</b>	<b>% of total Area</b>
18S	2,753	3,917	181.8	20.6
28S	6,159	7,453	331.5	37.6



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**Gel Image**

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**Curves**

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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: 13)		Instrument	Run		12/21/2012 3:07:07 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2012-12-21\2012-12-21_004.xad)		Instrument	Run		12/21/2012 2:43:25 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		12/21/2012 2:43:25 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		12/21/2012 2:43:25 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		12/21/2012 2:43:25 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		12/21/2012 2:43:25 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		12/21/2012 2:43:25 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		12/21/2012 2:43:25 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1