

Assay Class: Plant RNA Nano  
Data Path: C:\...zer\2016-01-19\2016-01-19\_003\_HiSeq368\_TotRNAQC\_9\_12\_15.xad

Created: 1/19/2016 2:09:55 PM  
Modified: 1/19/2016 3:48:02 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\Plant RNA Nano.xsy

Assay Class: Plant RNA Nano

Version: 1.3

Assay Comments: Total RNA Analysis ng sensitivity (Plant)

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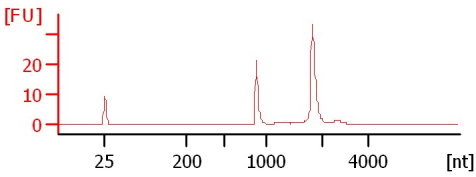
Chip Information:

Chip Lot #:

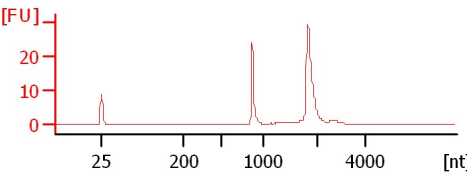
Reagent Kit Lot #:

Chip Comments:

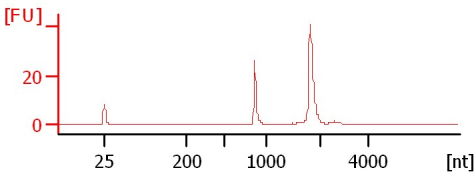
**Sample 9: 1H-3**  
HiSeq\_368 Total RNA  
RIN: 1.70



**Sample 12: 2A-3**  
HiSeq\_368 Total RNA  
RIN: 9.60



**Sample 15: 2E-3**  
HiSeq\_368 Total RNA  
RIN: 9.70



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

Sample Name	Sample Comment	Status	Result Label	Result Color
Sample 9: 1H-3	HiSeq_368 Total RNA	✓	RIN: 1.70	
Sample 12: 2A-3	HiSeq_368 Total RNA	✓	RIN: 9.60	
Sample 15: 2E-3	HiSeq_368 Total RNA	✓	RIN: 9.70	
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] : 0.2  
Area Threshold : 0.1  
Width Threshold [s] : 0.2  
Baseline Plateau [s] : 6

### Filter Settings

Filter Width [s] : 0.5  
Polynomial Order : 4

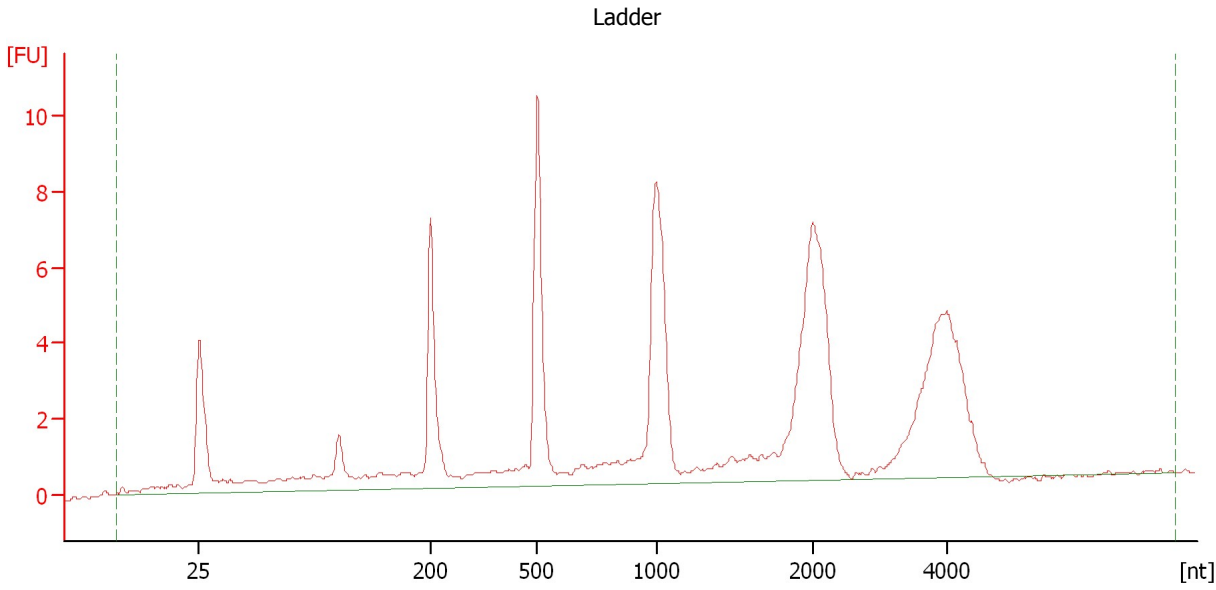
### Ladder

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**

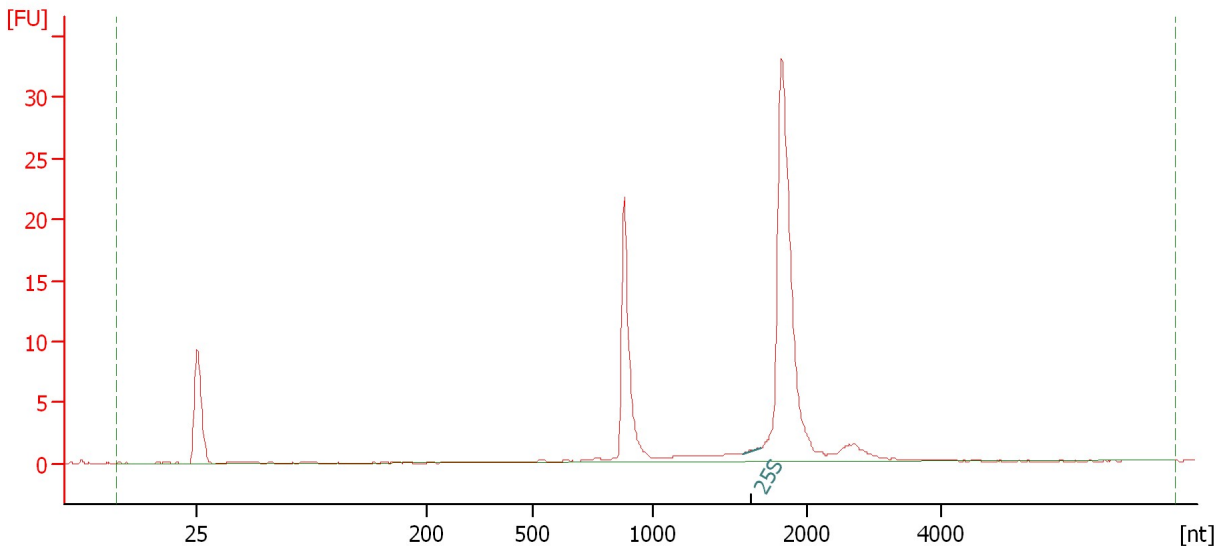
RNA Area:	97.2	Result Flagging Color:	<span style="background-color: #6699ff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

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**Electropherogram Summary Continued ...**

Sample 9: 1H-3 [ HiSeq\_368 Total RNA ]



**Overall Results for sample 10 : Sample 9: 1H-3**

RNA Area:	83.2	RNA Integrity Number (RIN):	1.7 (B.02.08)
RNA Concentration:	128 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 1.70

**Fragment table for sample 10 : Sample 9: 1H-3**

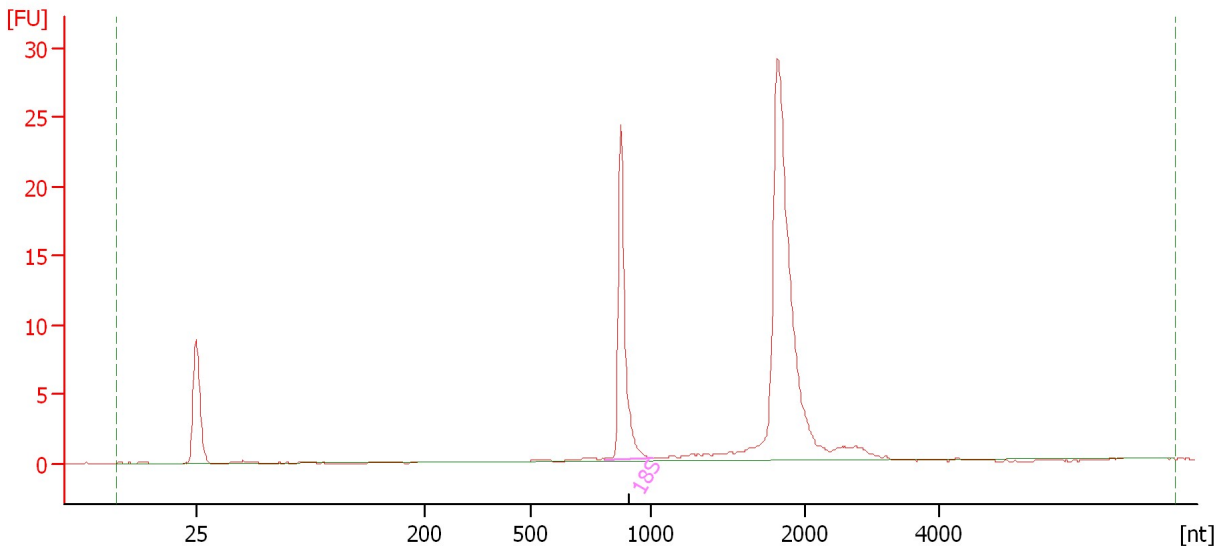
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
25S	1,576	1,700	0.1	0.2

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**Electropherogram Summary Continued ...**

Sample 12: 2A-3 [ HiSeq\_368 Total RNA ]



**Overall Results for sample 11 : Sample 12: 2A-3**

RNA Area:	87.8	RNA Integrity Number (RIN):	9.6 (B.02.08)
RNA Concentration:	136 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 9.60

**Fragment table for sample 11 : Sample 12: 2A-3**

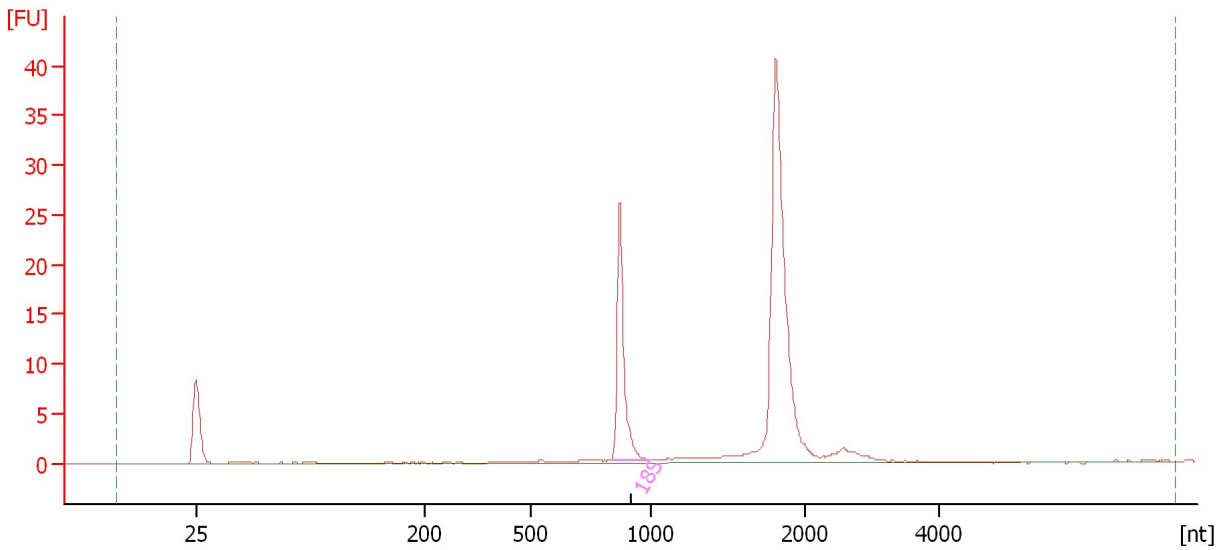
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	805	1,018	20.8	23.7

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**Electropherogram Summary Continued ...**

Sample 15: 2E-3 [ HiSeq\_368 Total RNA ]



**Overall Results for sample 12 : Sample 15: 2E-3**

RNA Area:	93.5	RNA Integrity Number (RIN):	9.7 (B.02.08)
RNA Concentration:	144 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 9.70

**Fragment table for sample 12 : Sample 15: 2E-3**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	841	994	22.2	23.8

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**Gel Image**



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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		1/19/2016 2:32:59 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanal yzer\2016-01-19\2016-01-19_003.xad)		Instrument	Run		1/19/2016 2:10:01 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		1/19/2016 2:10:01 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		1/19/2016 2:10:01 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		1/19/2016 2:10:01 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		1/19/2016 2:10:01 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		1/19/2016 2:10:01 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		1/19/2016 2:10:01 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1