

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...alyzer\2100 expert\data\2016-12-22\2016-12-22\_004\_QC145.xad

Created: 12/22/2016 5:07:09 PM  
Modified: 12/22/2016 5:21:52 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

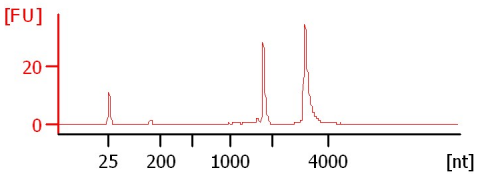
Assay Class: Eukaryote Total RNA Nano  
Version: 2.6  
Assay Comments: Total RNA Analysis ng sensitivity (Eukaryote)

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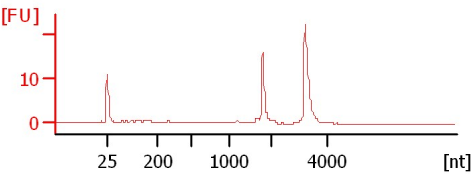
Chip Information:

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

**1: 85-Mentha suaveolens 10021**  
QC\_145  
RIN: 9.70



**2: 100-M. aquatica 10172**  
QC\_145  
RIN: 9.60



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

Sample Name	Sample Comment	Status	Result Label	Result Color
1: 85-Mentha suaveolens 10021	QC_145	✓	RIN: 9.70	
2: 100-M. aquatica 10172	QC_145	✓	RIN: 9.60	
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/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

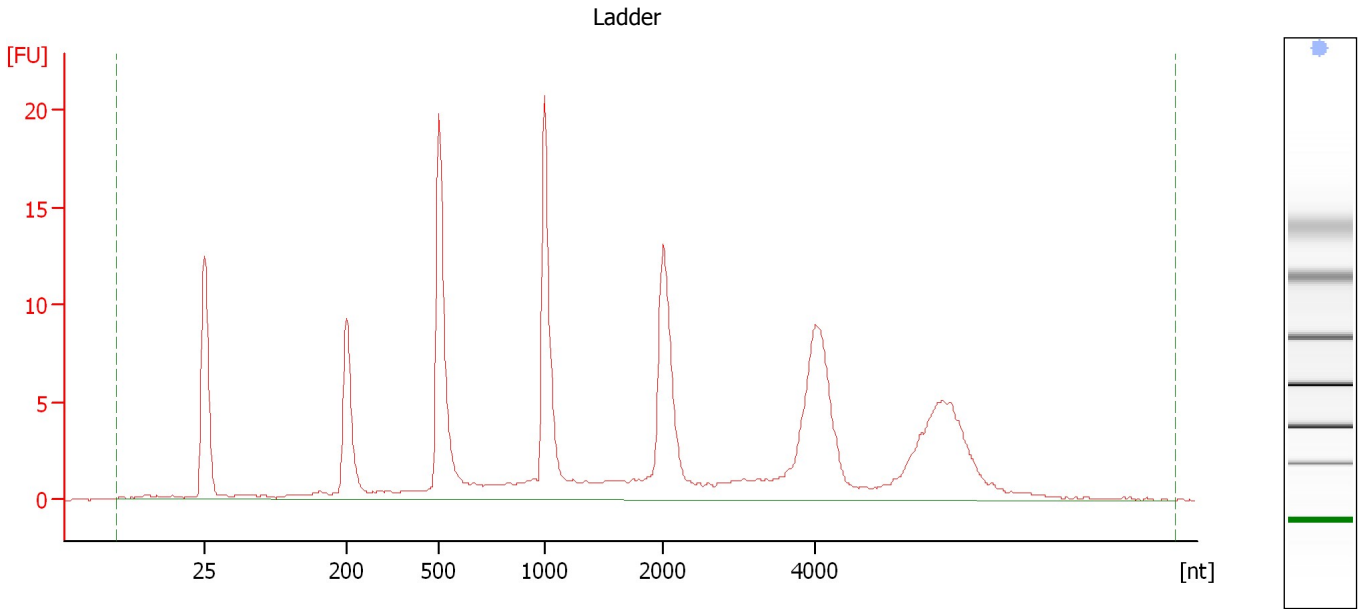
**Ladder**

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

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**Electropherogram Summary**



**Overall Results for Ladder**

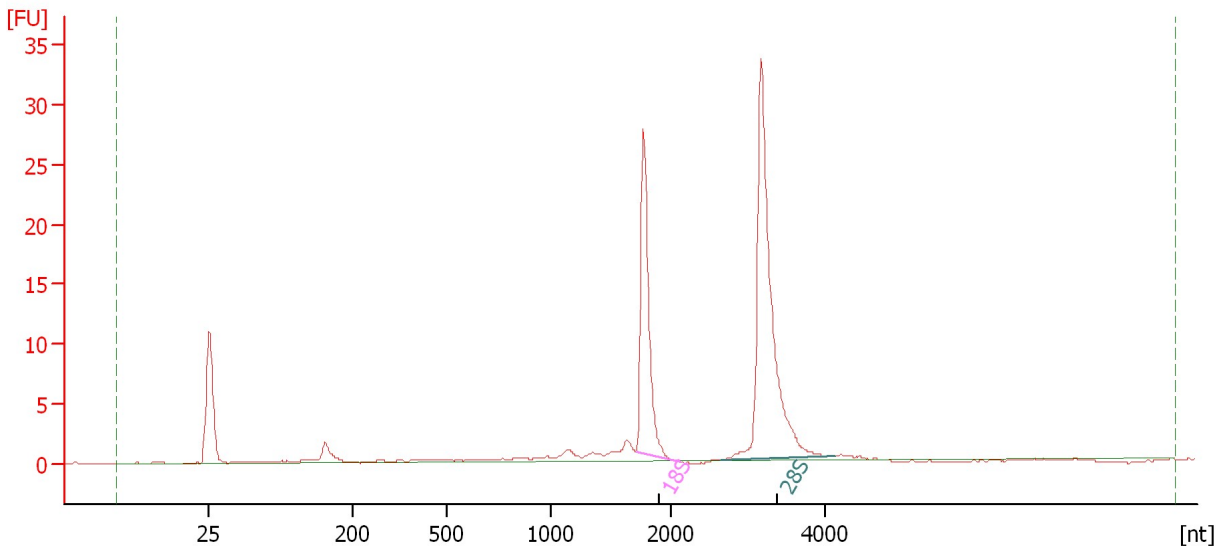
RNA Area:	176.2	Result Flagging Color:	<span style="background-color: #add8e6; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

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**Electropherogram Summary Continued ...**

1: 85-Mentha suaveolens 10021 [ QC\_145 ]



**Overall Results for sample 1 : 1: 85-Mentha suaveolens 10021**

RNA Area: 98.9 RNA Integrity Number (RIN): 9.7 (B.02.08)  
RNA Concentration: 84 ng/μl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 2.0 Result Flagging Label: RIN: 9.70

**Fragment table for sample 1 : 1: 85-Mentha suaveolens 10021**

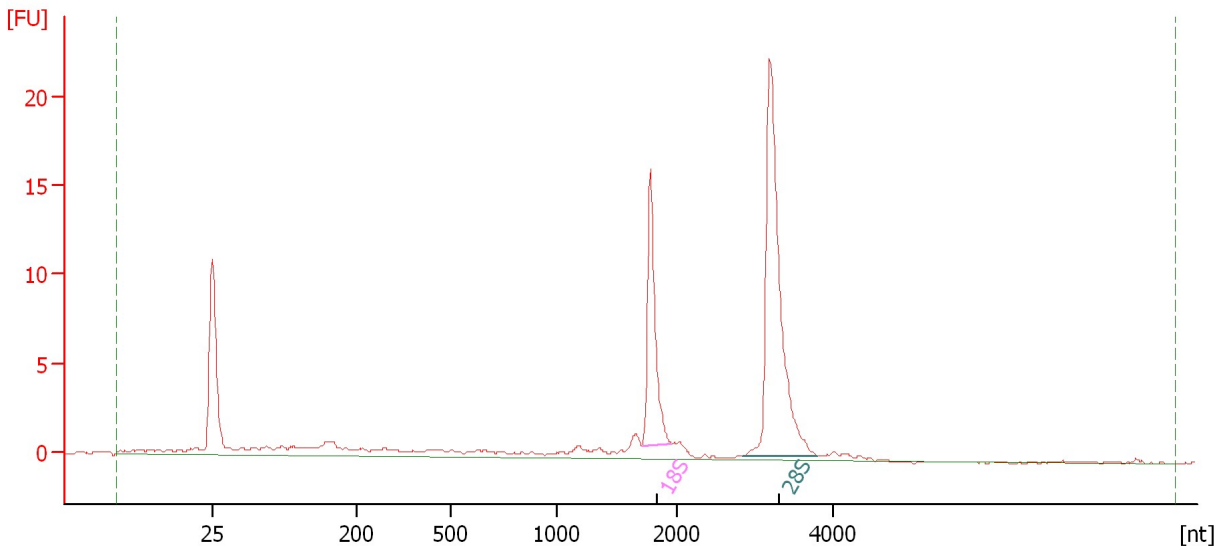
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,708	2,129	25.4	25.6
28S	2,643	4,126	50.0	50.6

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**Electropherogram Summary Continued ...**

2: 100-M. aquatica 10172 [ QC\_145 ]



**Overall Results for sample 2 : 2: 100-M. aquatica 10172**

RNA Area: 78.6 RNA Integrity Number (RIN): 9.6 (B.02.08)  
RNA Concentration: 67 ng/μl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 2.2 Result Flagging Label: RIN: 9.60

**Fragment table for sample 2 : 2: 100-M. aquatica 10172**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,712	1,952	14.5	18.4
28S	2,835	3,800	32.1	40.8

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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: 6)		Instrument	Run		12/22/2016 5:21:23 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-12-22\2016-12-22_004.xad)		Instrument	Run		12/22/2016 5:07:14 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		12/22/2016 5:07:14 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		12/22/2016 5:07:14 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		12/22/2016 5:07:14 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		12/22/2016 5:07:14 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		12/22/2016 5:07:14 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		12/22/2016 5:07:14 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1