

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-03\2019-09-03_001.xad

Created: 9/3/2019 2:31:59 PM
Modified: 9/3/2019 2:54:51 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\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)

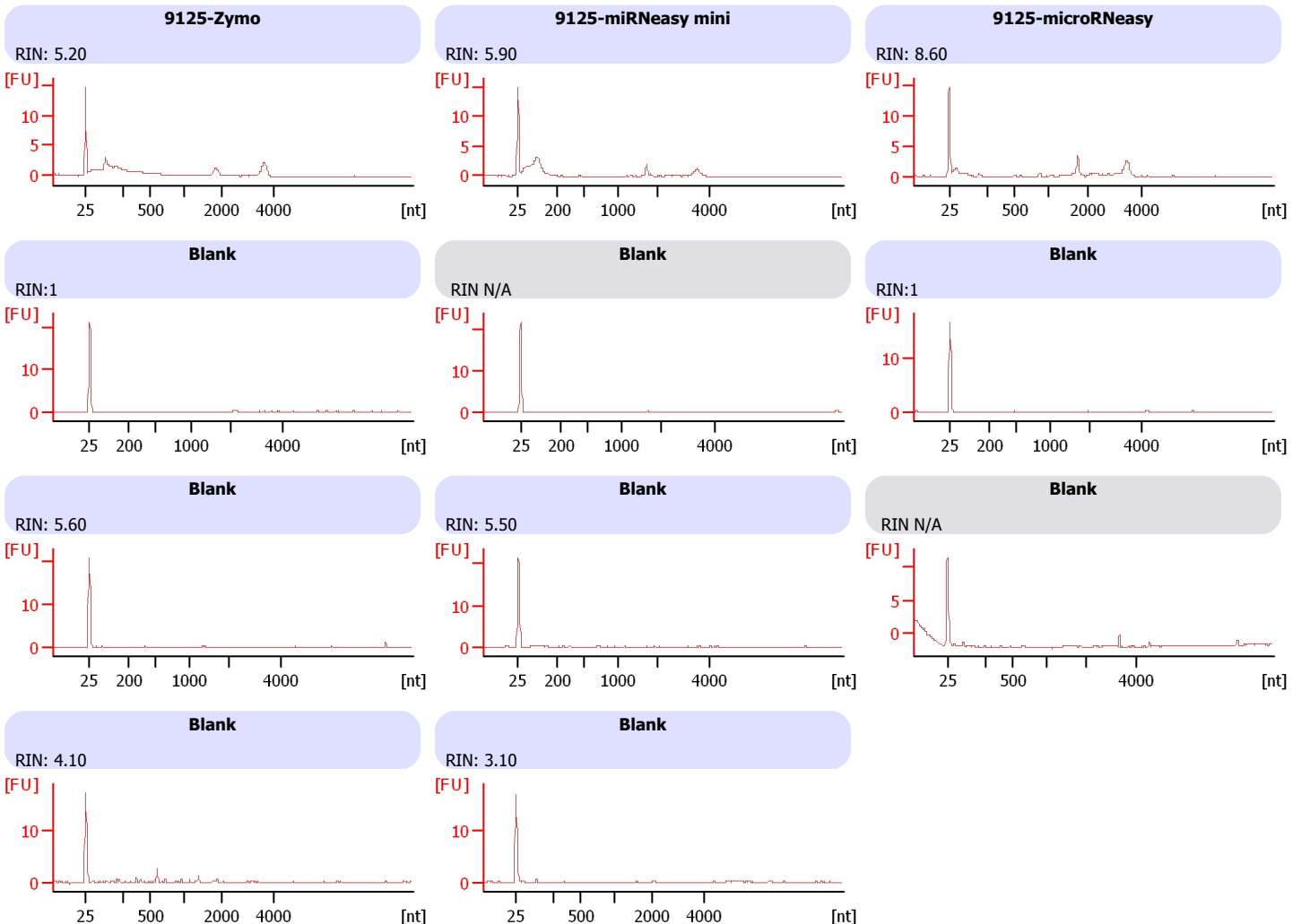
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Chip Information:

Chip Lot #:

Reagent Kit Lot #:

Chip Comments:



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Electrophoresis File Run Summary (Chip Summary)

| Sample Name | Sample Comment | Status | Result Label | Result Color |
|--------------------|----------------|--------|-------------------|--------------|
| 9125-Zymo | | ✓ | RIN: 5.20 | |
| 9125-miRNeasy mini | | ✓ | RIN: 5.90 | |
| 9125-microRNeasy | | ✓ | RIN: 8.60 | |
| Blank | | ✓ | RIN:1 | |
| Blank | | ✓ | RIN N/A | |
| Blank | | ✓ | RIN:1 | |
| Blank | | ✓ | RIN: 5.60 | |
| Blank | | ✓ | RIN: 5.50 | |
| Blank | | ✓ | RIN N/A | |
| Blank | | ✓ | RIN: 4.10 | |
| Blank | | ✓ | RIN: 3.10 | |
| 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/ μ l] : 1000
Lower Marker Concentration [pg/ μ l] : 0
Upper Marker Concentration [pg/ μ l] : 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

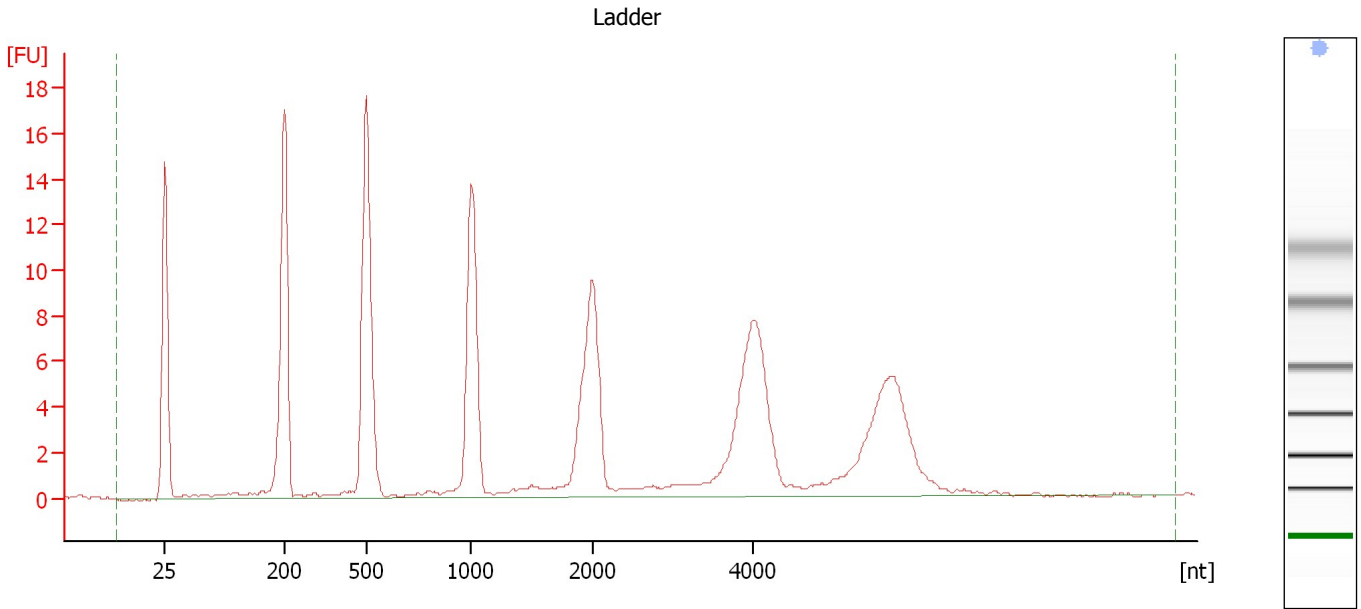
Ladder

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

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Electropherogram Summary



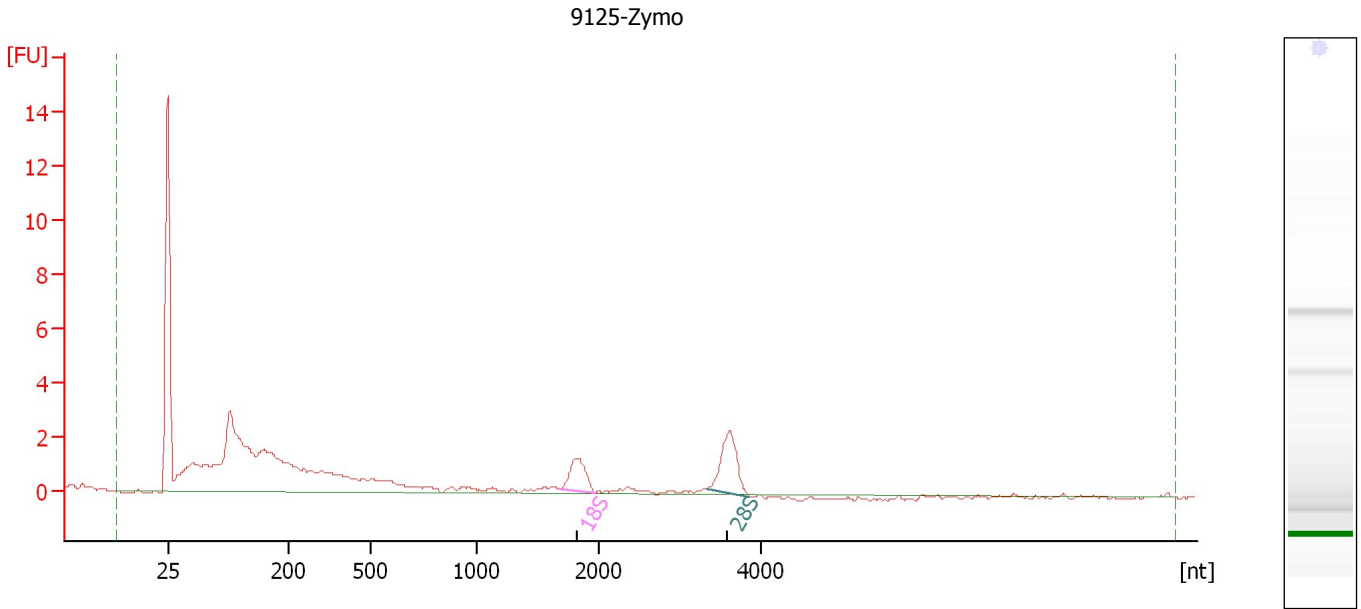
Overall Results for Ladder

| | | | |
|--------------------|-------------|------------------------|---|
| RNA Area: | 157.5 | Result Flagging Color: | |
| RNA Concentration: | 1,000 pg/μl | Result Flagging Label: | All Other Samples |

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Electropherogram Summary Continued ...



Overall Results for sample 1 : 9125-Zymo

RNA Area: 49.9 RNA Integrity Number (RIN): 5.2 (B.02.08)
RNA Concentration: 317 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.6 Result Flagging Label: RIN: 5.20

Fragment table for sample 1 : 9125-Zymo

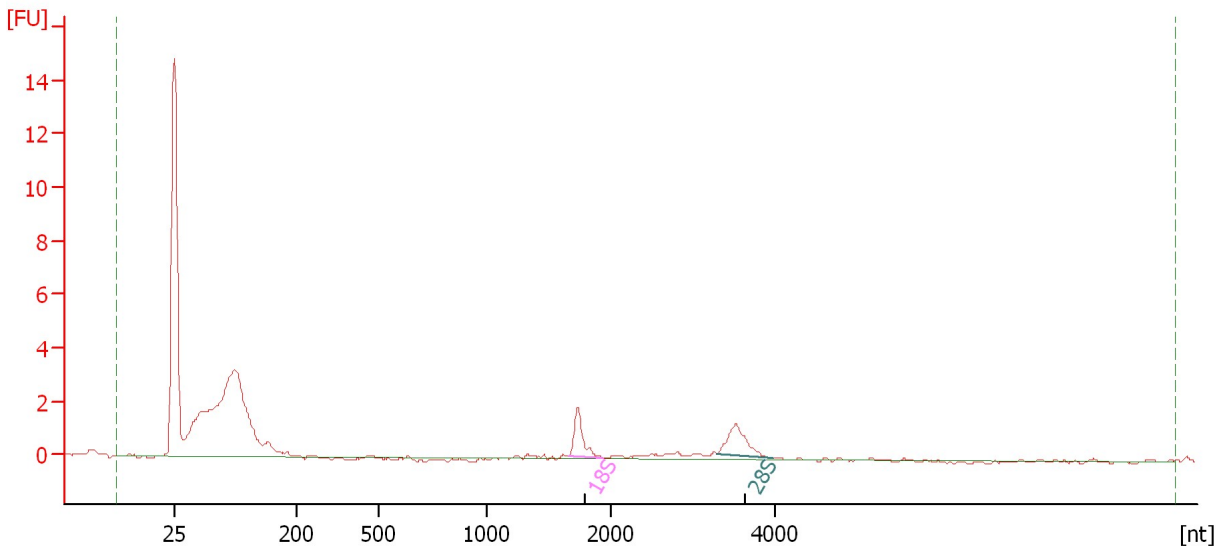
| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,676 | 1,975 | 2.5 | 5.0 |
| 28S | 3,353 | 3,870 | 4.0 | 7.9 |

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Electropherogram Summary Continued ...

9125-miRNeasy mini



Overall Results for sample 2 : 9125-miRNeasy mini

RNA Area: 33.8 RNA Integrity Number (RIN): 5.9 (B.02.08)
RNA Concentration: 214 µg/µl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.1 Result Flagging Label: RIN: 5.90

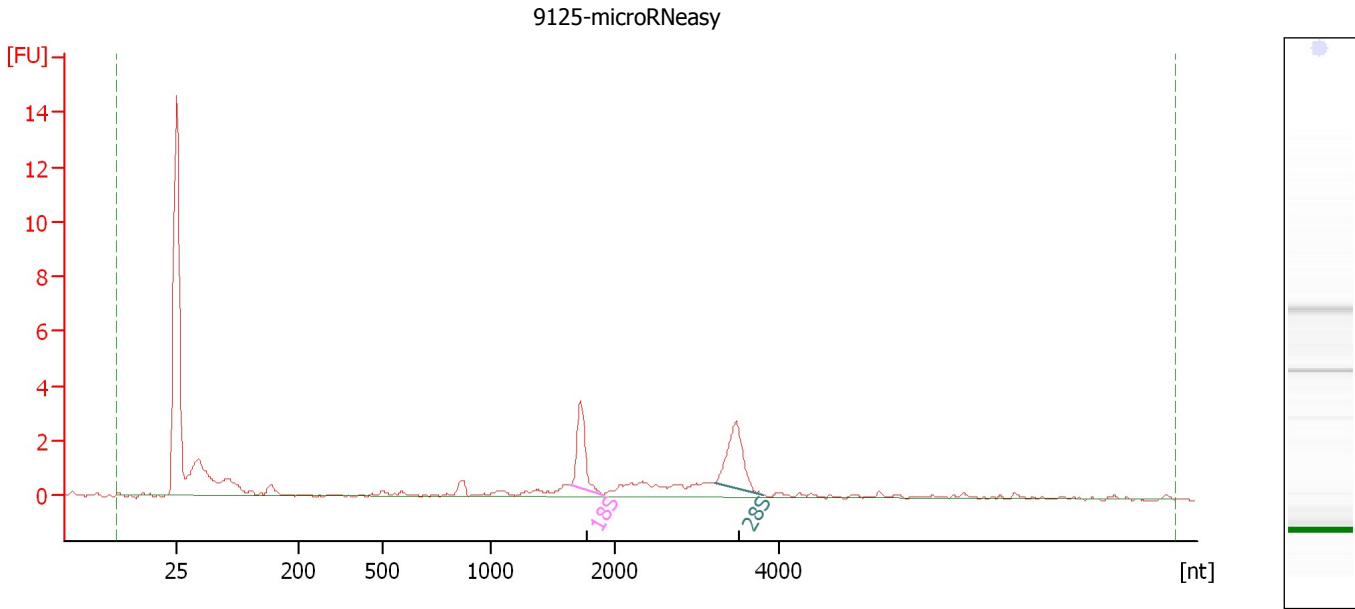
Fragment table for sample 2 : 9125-miRNeasy mini

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,650 | 1,936 | 2.1 | 6.4 |
| 28S | 3,302 | 3,968 | 2.4 | 7.0 |

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Electropherogram Summary Continued ...



Overall Results for sample 3 : 9125-microRNeasy

RNA Area: 28.6 RNA Integrity Number (RIN): 8.6 (B.02.08)
RNA Concentration: 182 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.3 Result Flagging Label: RIN: 8.60

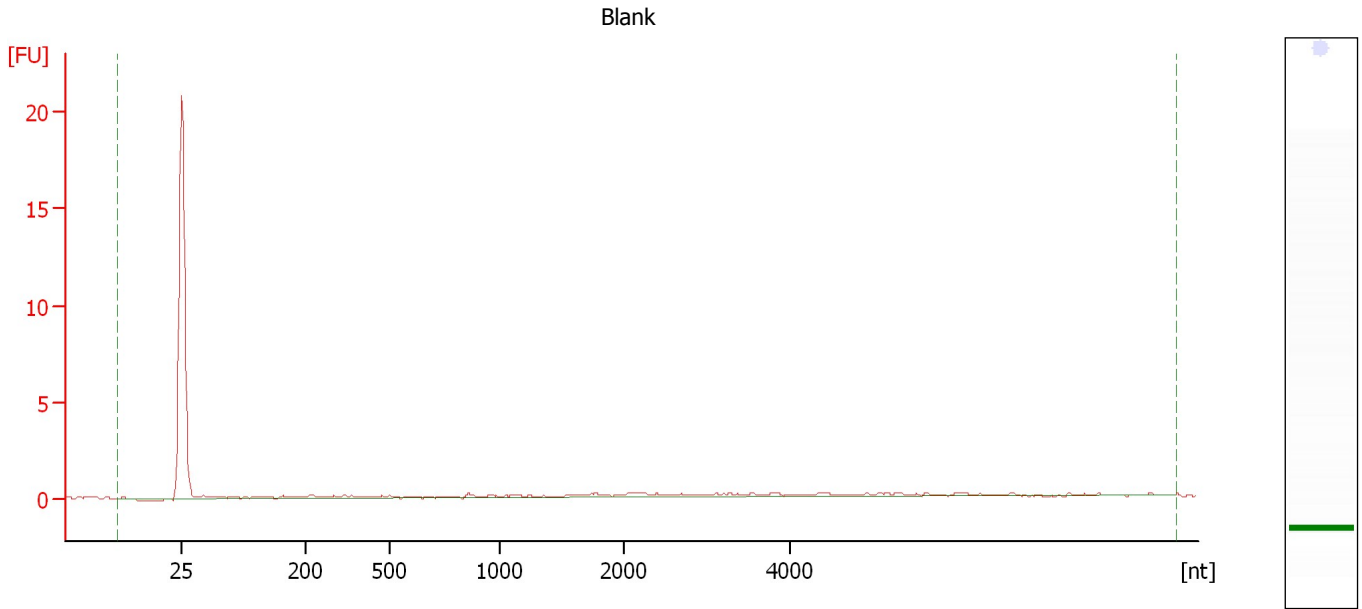
Fragment table for sample 3 : 9125-microRNeasy

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,636 | 1,904 | 3.4 | 11.8 |
| 28S | 3,220 | 3,806 | 4.2 | 14.8 |

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Electropherogram Summary Continued ...



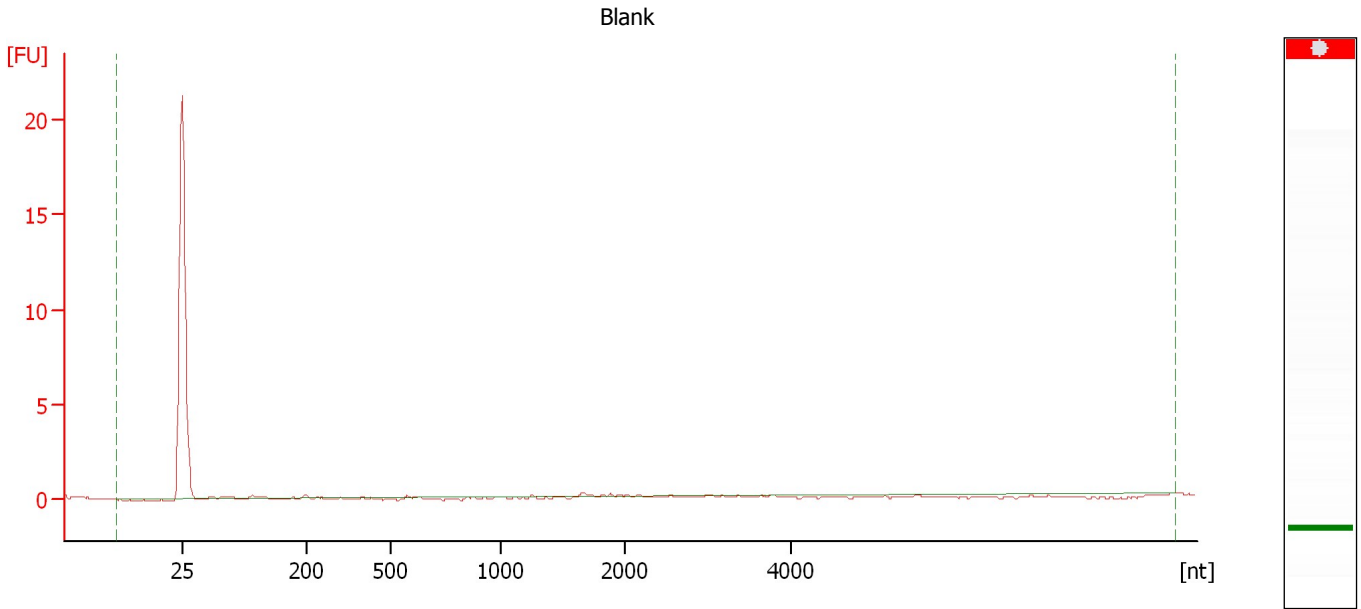
Overall Results for sample 4 : Blank

| | | | |
|-------------------------|----------|-----------------------------|---|
| RNA Area: | 7.5 | RNA Integrity Number (RIN): | 1 (B.02.08) |
| RNA Concentration: | 48 pg/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.0 | Result Flagging Label: | RIN:1 |

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Electropherogram Summary Continued ...



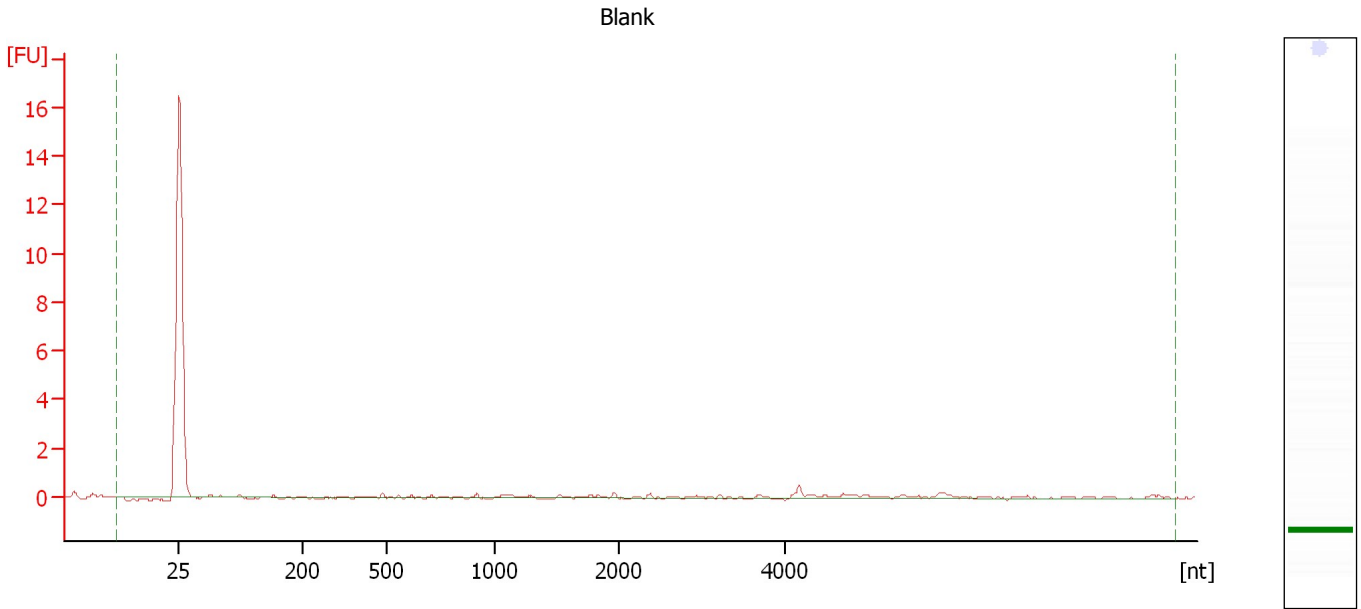
Overall Results for sample 5 : Blank

| | | | |
|-------------------------|---------|-----------------------------|---|
| RNA Area: | 1.2 | RNA Integrity Number (RIN): | N/A (B.02.08) |
| RNA Concentration: | 8 pg/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.0 | Result Flagging Label: | RIN N/A |

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Electropherogram Summary Continued ...



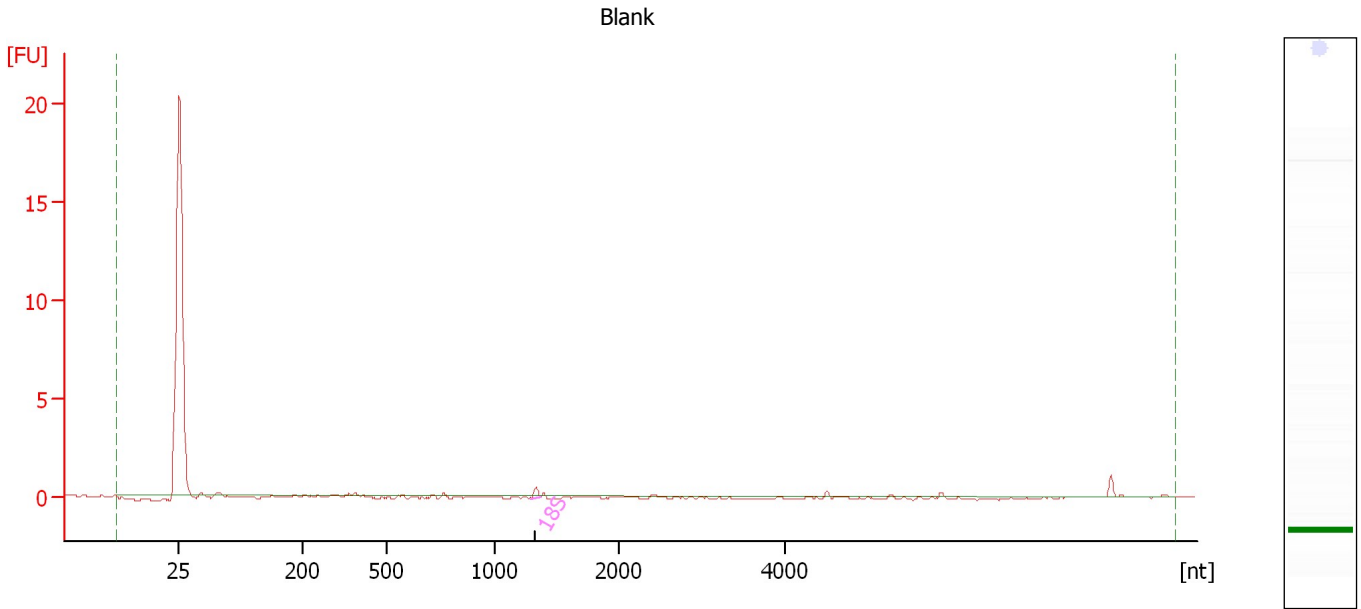
Overall Results for sample 6 : Blank

| | | | |
|-------------------------|----------|-----------------------------|---|
| RNA Area: | 6.0 | RNA Integrity Number (RIN): | 1 (B.02.08) |
| RNA Concentration: | 38 pg/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.0 | Result Flagging Label: | RIN:1 |

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Electropherogram Summary Continued ...



Overall Results for sample 7 : Blank

| | | | |
|-------------------------|----------|-----------------------------|---|
| RNA Area: | 2.1 | RNA Integrity Number (RIN): | 5.6 (B.02.08) |
| RNA Concentration: | 13 pg/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.0 | Result Flagging Label: | RIN: 5.60 |

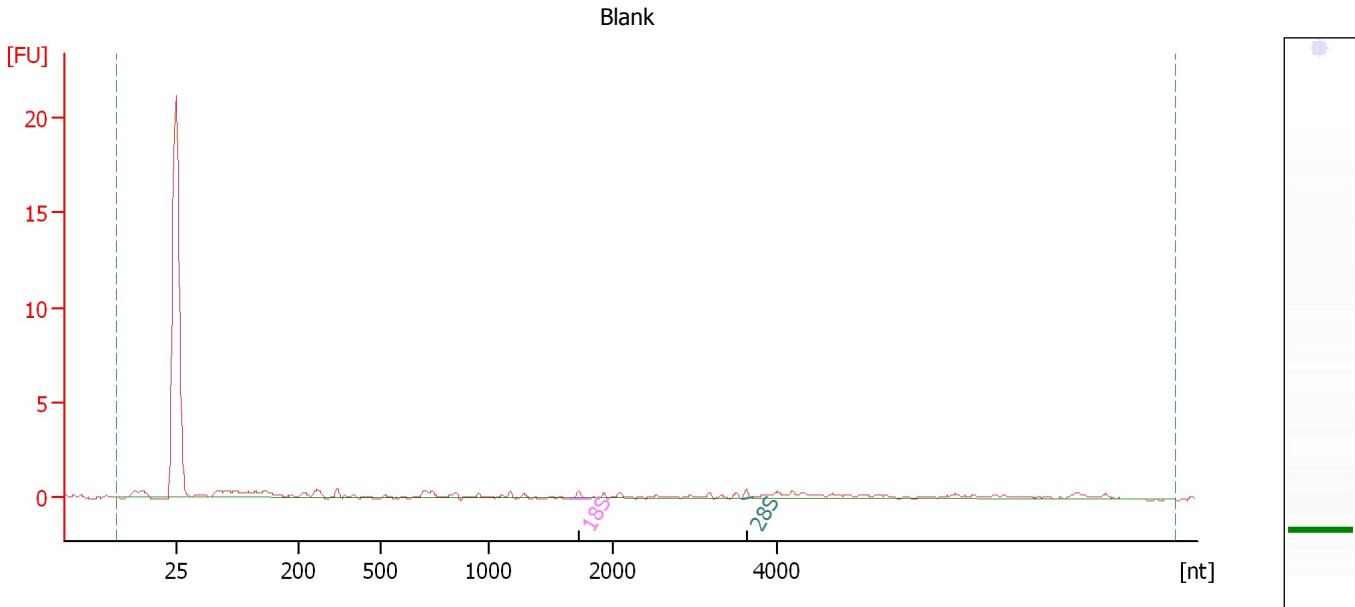
Fragment table for sample 7 : Blank

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,295 | 1,373 | 0.3 | 14.6 |

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



Overall Results for sample 8 : Blank

RNA Area: 15.2 RNA Integrity Number (RIN): 5.5 (B.02.08)
RNA Concentration: 96 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.6 Result Flagging Label: RIN: 5.50

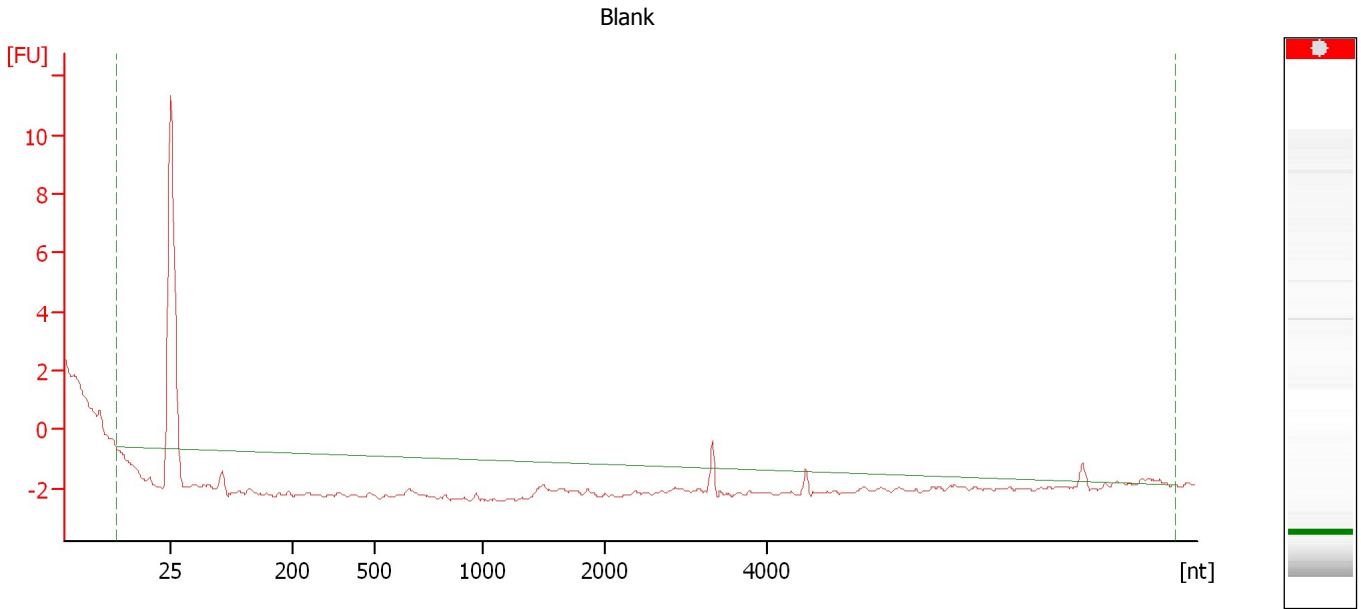
Fragment table for sample 8 : Blank

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,643 | 1,799 | 0.3 | 2.1 |
| 28S | 3,574 | 3,704 | 0.2 | 1.3 |


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Electropherogram Summary Continued ...



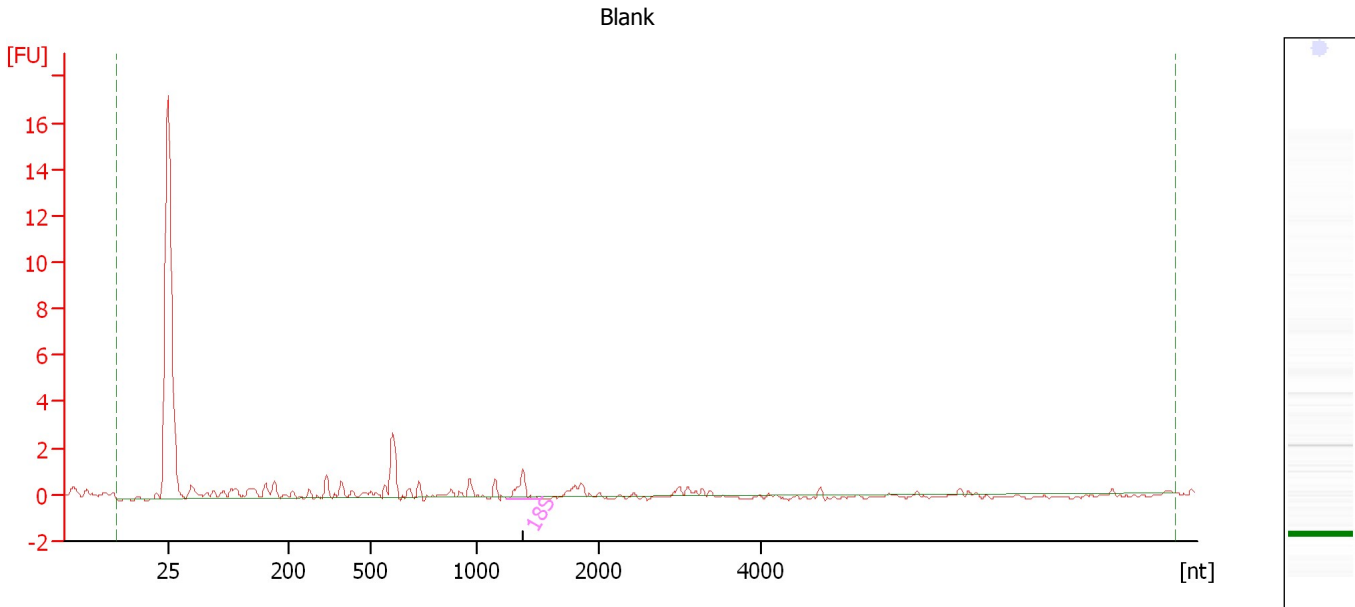
Overall Results for sample 9 : Blank

| | | | |
|-------------------------|---------------|-----------------------------|--|
| RNA Area: | 1.2 | RNA Integrity Number (RIN): | N/A (B.02.08) |
| RNA Concentration: | 8 pg/ μ l | Result Flagging Color: |  |
| rRNA Ratio [28s / 18s]: | 0.0 | Result Flagging Label: | RIN N/A |

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



Overall Results for sample 10 : Blank

| | | | |
|-------------------------|----------|-----------------------------|---|
| RNA Area: | 14.8 | RNA Integrity Number (RIN): | 4.1 (B.02.08) |
| RNA Concentration: | 94 pg/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.0 | Result Flagging Label: | RIN: 4.10 |

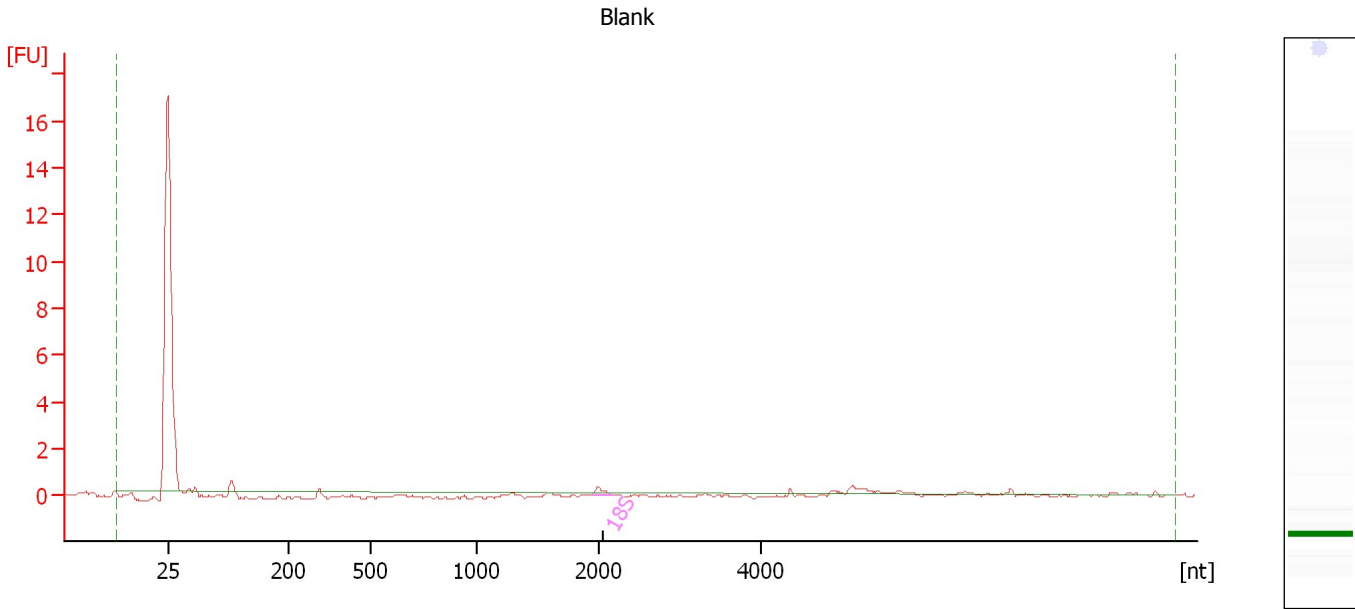
Fragment table for sample 10 : Blank

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,246 | 1,527 | 1.3 | 8.8 |

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Electropherogram Summary Continued ...



Overall Results for sample 11 : Blank

| | | | |
|-------------------------|----------|-----------------------------|---|
| RNA Area: | 1.9 | RNA Integrity Number (RIN): | 3.1 (B.02.08) |
| RNA Concentration: | 12 pg/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.0 | Result Flagging Label: | RIN: 3.10 |

Fragment table for sample 11 : Blank

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,949 | 2,188 | 0.3 | 17.0 |

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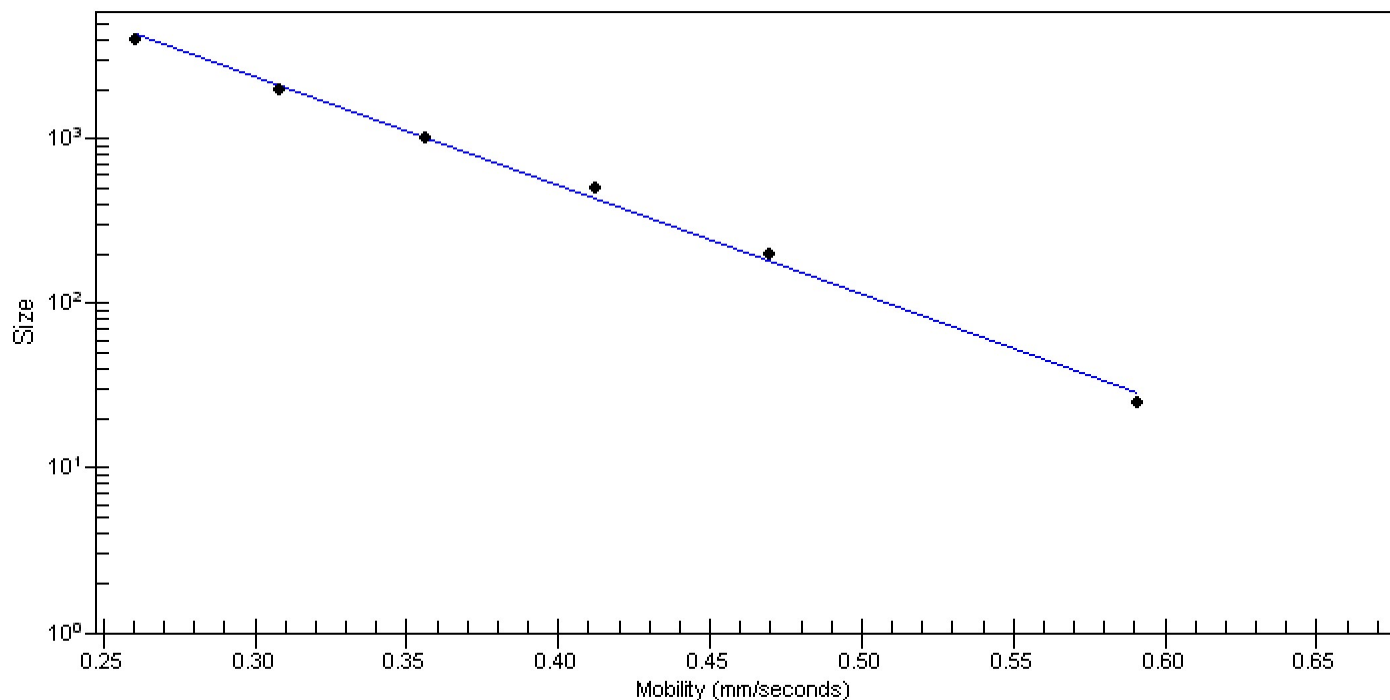
Gel Image

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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 | | 9/3/2019 2:54:50 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2019-09-03\2019-09-03_001.xad) | | Instrument | Run | | 9/3/2019 2:32:04 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Product Number : G2938C | | Instrument | Run | | 9/3/2019 2:32:04 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Name : | | Instrument | Run | | 9/3/2019 2:32:04 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Vendor : Agilent Technologies | | Instrument | Run | | 9/3/2019 2:32:04 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Serial# : DE34903152 | | Instrument | Run | | 9/3/2019 2:32:04 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Firmware : C.01.069 | | Instrument | Run | | 9/3/2019 2:32:04 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Cartridge : Electrode | | Instrument | Run | | 9/3/2019 2:32:04 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |