

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...00 bioanalyzer\2100 expert\data\2019-11-08\QC517_RNAQC1.xad

Created: 11/8/2019 12:11:55 PM
Modified: 11/12/2019 11:02:42 AM

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

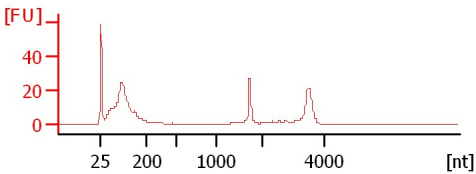
Assay Class: Eukaryote Total RNA Pico
Version: 2.6
Assay Comments: Total RNA Analysis pg sensitivity (Eukaryote)

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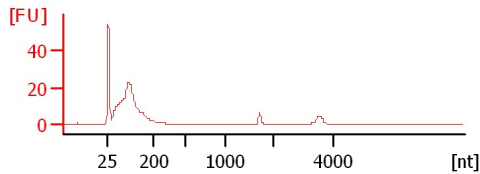
Chip Information:

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

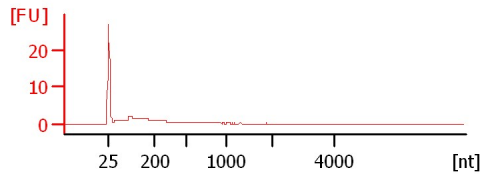
CD45-Norgen-9132
QC 517 #1
RIN: 8.90



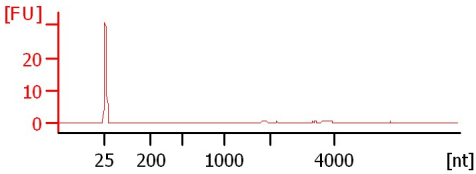
CD71-Norgen-9132
QC 517 #2
RIN: 3.80



CD45-Zymo-9132
QC 517 #3
RIN: 1



CD71-Zymo-9132
QC 517 #4
RIN: 5.90



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Electrophoresis File Run Summary (Chip Summary)

| Sample Name | Sample Comment | Status | Result Label | Result Color |
|------------------|----------------|--------|-------------------|--------------|
| CD45-Norgen-9132 | QC 517 #1 | ✓ | RIN: 8.90 | |
| CD71-Norgen-9132 | QC 517 #2 | ✓ | RIN: 3.80 | |
| CD45-Zymo-9132 | QC 517 #3 | ✓ | RIN:1 | |
| CD71-Zymo-9132 | QC 517 #4 | ✓ | RIN: 5.90 | |
| 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.) : 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

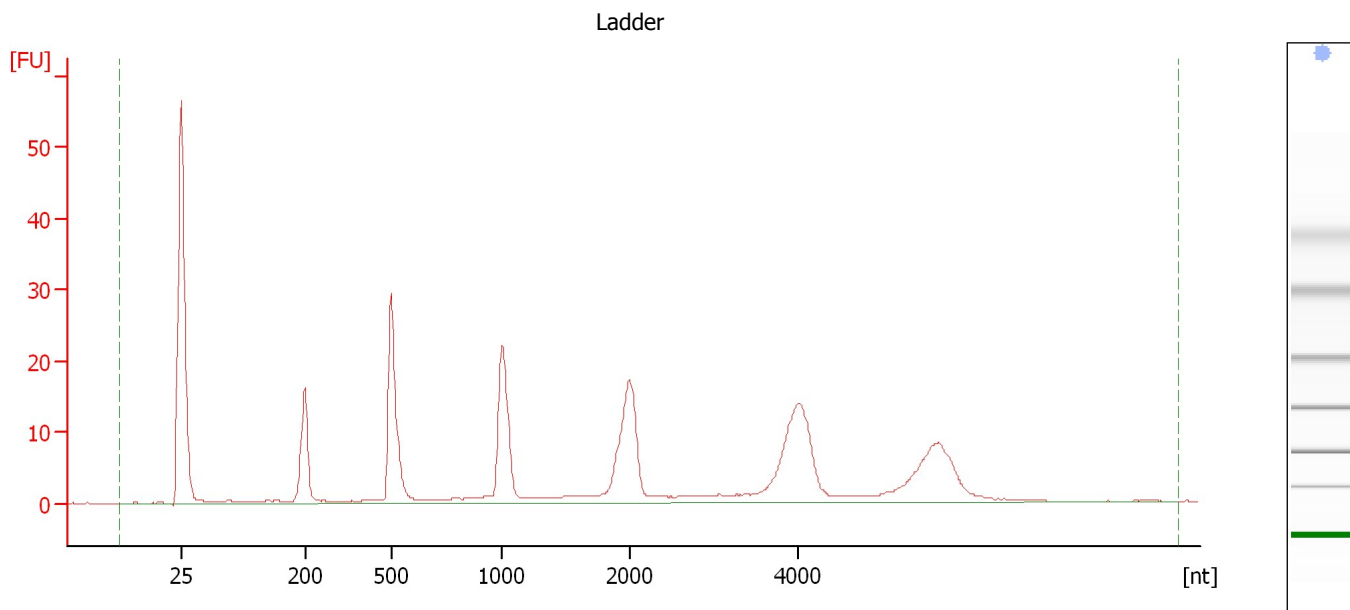
Ladder

| 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

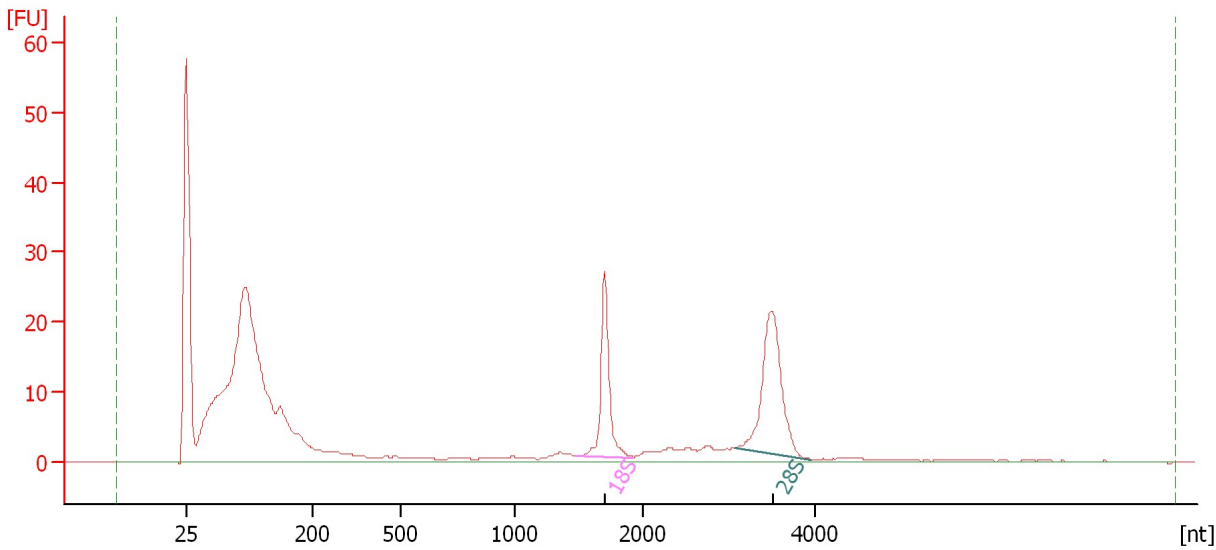
| | | | |
|--------------------|-------------|------------------------|---|
| RNA Area: | 239.2 | Result Flagging Color: | |
| RNA Concentration: | 1,000 pg/μl | Result Flagging Label: | All Other Samples |

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Electropherogram Summary Continued ...

CD45-Norgen-9132 [QC 517 #1]



Overall Results for sample 1 : CD45-Norgen-9132

RNA Area: 352.5 RNA Integrity Number (RIN): 8.9 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration: 1,474 pg/μl
rRNA Ratio [28s / 18s]: 1.5
Result Flagging Color:
Result Flagging Label: RIN: 8.90

Fragment table for sample 1 : CD45-Norgen-9132

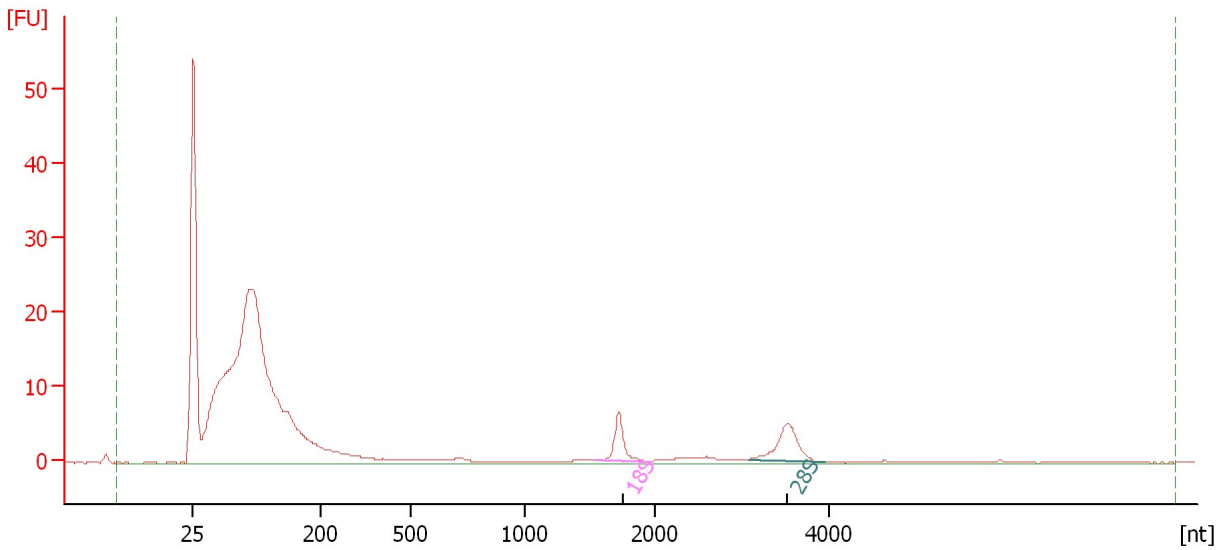
| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,492 | 1,921 | 28.2 | 8.0 |
| 28S | 3,063 | 3,958 | 42.5 | 12.1 |

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Electropherogram Summary Continued ...

CD71-Norgen-9132 [QC 517 #2]



Overall Results for sample 2 : CD71-Norgen-9132

| | | | |
|-------------------------|-------------|-----------------------------|---|
| RNA Area: | 269.6 | RNA Integrity Number (RIN): | 3.8 (B.02.08, Anomaly Threshold(s) manually adapted) |
| RNA Concentration: | 1,127 pg/μl | | |
| rRNA Ratio [28s / 18s]: | 1.4 | Result Flagging Color: | |
| | | Result Flagging Label: | RIN: 3.80 |

Fragment table for sample 2 : CD71-Norgen-9132

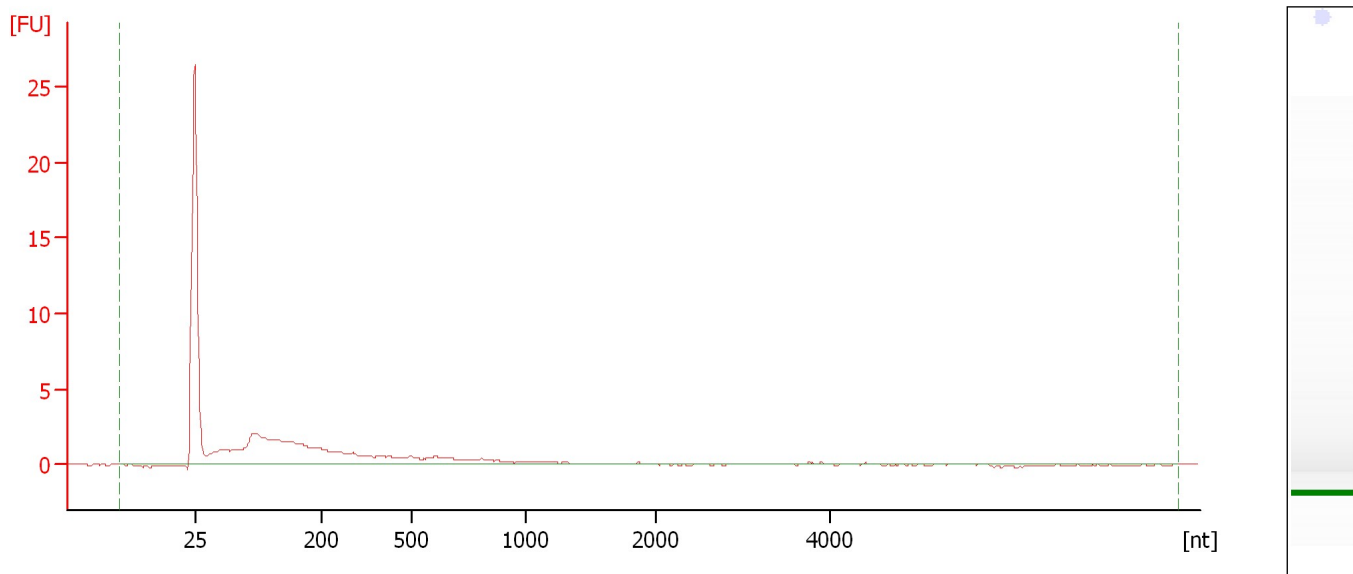
| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,542 | 1,966 | 7.6 | 2.8 |
| 28S | 3,065 | 3,937 | 10.9 | 4.0 |

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

CD45-Zymo-9132 [QC 517 #3]



Overall Results for sample 3 : CD45-Zymo-9132

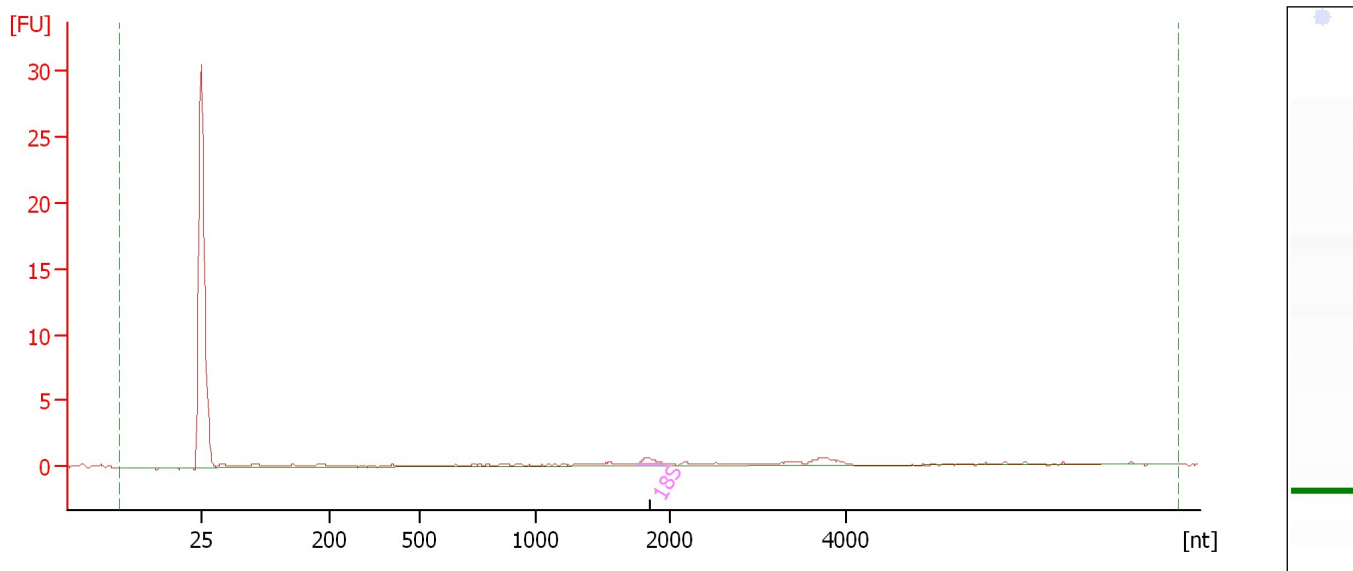
| | | | |
|-------------------------|-----------|-----------------------------|---|
| RNA Area: | 39.5 | RNA Integrity Number (RIN): | 1 (B.02.08, Anomaly Threshold(s) manually adapted) |
| RNA Concentration: | 165 µg/µl | | |
| rRNA Ratio [28s / 18s]: | 0.0 | Result Flagging Color: | |
| | | Result Flagging Label: | RIN:1 |

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

CD71-Zymo-9132 [QC 517 #4]



Overall Results for sample 4 : CD71-Zymo-9132

| | | | |
|-------------------------|----------|-----------------------------|---|
| RNA Area: | 10.2 | RNA Integrity Number (RIN): | 5.9 (B.02.08, Anomaly Threshold(s) manually adapted) |
| RNA Concentration: | 43 pg/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.0 | Result Flagging Label: | RIN: 5.90 |

Fragment table for sample 4 : CD71-Zymo-9132

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,743 | 1,977 | 0.8 | 7.8 |

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Gel Image

Assay Class: Eukaryote Total RNA Pico
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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 | | 11/8/2019 12:34:48 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\2019-11-08\2019-11-08_001.xad) | | Instrument | Run | | 11/8/2019 12:12:00 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Product Number : G2938C | | Instrument | Run | | 11/8/2019 12:12:00 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Name : | | Instrument | Run | | 11/8/2019 12:12:00 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Vendor : Agilent Technologies | | Instrument | Run | | 11/8/2019 12:12:00 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Serial# : DE34903152 | | Instrument | Run | | 11/8/2019 12:12:00 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Firmware : C.01.069 | | Instrument | Run | | 11/8/2019 12:12:00 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Cartridge : Electrode | | Instrument | Run | | 11/8/2019 12:12:00 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |