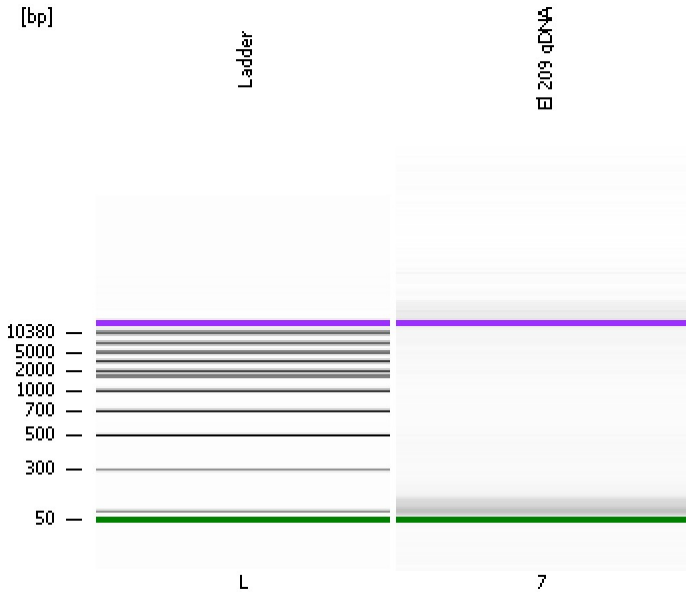


Assay Class: DNA 12000
Data Path: C:\...nd Settings\Bioanalyzer\2014-09-09\2014-09-09_001_Cantu.xad

Created: 9/9/2014 9:44:03 AM
Modified: 9/9/2014 10:19:04 AM

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\dsDNA\DNA 12000 Series II.xsy

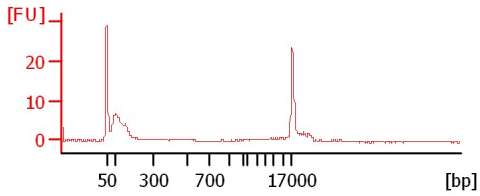
Assay Class: DNA 12000
Version: 2.4
Assay Comments: DNA Analysis 100 -12000 bp

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Chip Information:

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

EI 209 gDNA



Assay Class: DNA 12000
Data Path: C:\...nd Settings\Bioanalyzer\2014-09-09\2014-09-09_001_Cantu.xad

Created: 9/9/2014 9:44:03 AM
Modified: 9/9/2014 10:19:04 AM

Electrophoresis File Run Summary (Chip Summary)

| Sample Name | Sample Comment | Rest. Digest | Status | Observation | Result Label | Result Color |
|-------------|----------------|--------------------------|--------|-------------|--------------|--------------|
| El 209 gDNA | | <input type="checkbox"/> | ✓ | | | |
| Ladder | | <input type="checkbox"/> | ✓ | | | |

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

Assay Class: DNA 12000
Data Path: C:\...nd Settings\Bioanalyzer\2014-09-09\2014-09-09_001_Cantu.xad

Created: 9/9/2014 9:44:03 AM
Modified: 9/9/2014 10:19:04 AM

Electrophoresis Assay Details

General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 13
Minimum Visible Range [s] : 20
Maximum Visible Range [s] : 99
Start Analysis Time Range [s] : 20
End Analysis Time Range [s] : 98.95
Ladder Concentration [ng/μl] : 44
Uses Standard Area for Ladder Fragments
Lower Marker Concentration [ng/μl] : 8.3
Upper Marker Concentration [ng/μl] : 4.2
Used Upper Marker for Quantitation
This is a Qualitative Assay Only
Standard Curve Fit is Point to Point
Show Data Aligned to Lower and Upper Marker

Integrator Settings

Integration Start Time [s] : 20
Integration End Time [s] : 98.95
Slope Threshold : 0.8
Height Threshold [FU] : 20
Area Threshold : 0.1
Width Threshold [s] : 0.5
Baseline Plateau [s] : 0.5

Filter Settings

Filter Width [s] : 0.5
Polynomial Order : 4

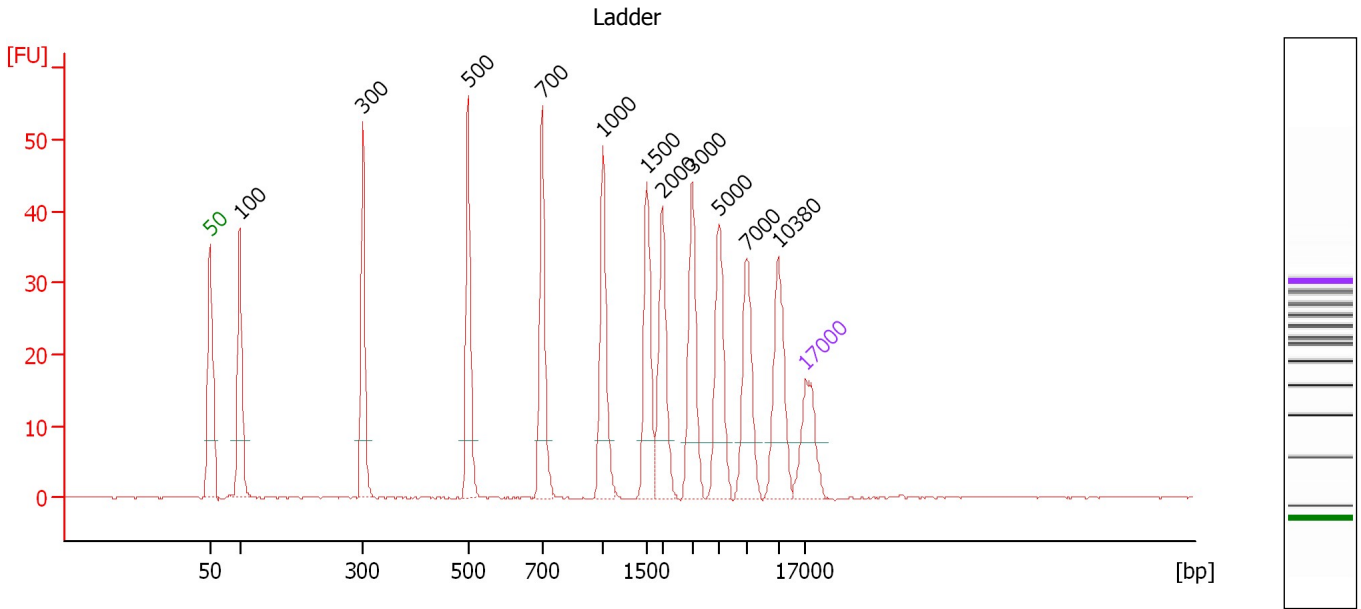
Ladder

| Ladder Peak | Size | Area |
|-------------|-------|------|
| 1 | 50 | 120 |
| 2 | 100 | 48 |
| 3 | 300 | 61 |
| 4 | 500 | 77 |
| 5 | 700 | 81 |
| 6 | 1000 | 86 |
| 7 | 1500 | 92 |
| 8 | 2000 | 92 |
| 9 | 3000 | 96 |
| 10 | 5000 | 100 |
| 11 | 7000 | 98 |
| 12 | 10380 | 102 |
| 13 | 17000 | 110 |

Assay Class: DNA 12000
 Data Path: C:\...nd Settings\Bioanalyzer\2014-09-09\2014-09-09_001_Cantu.xad

Created: 9/9/2014 9:44:03 AM
 Modified: 9/9/2014 10:19:04 AM

Electropherogram Summary



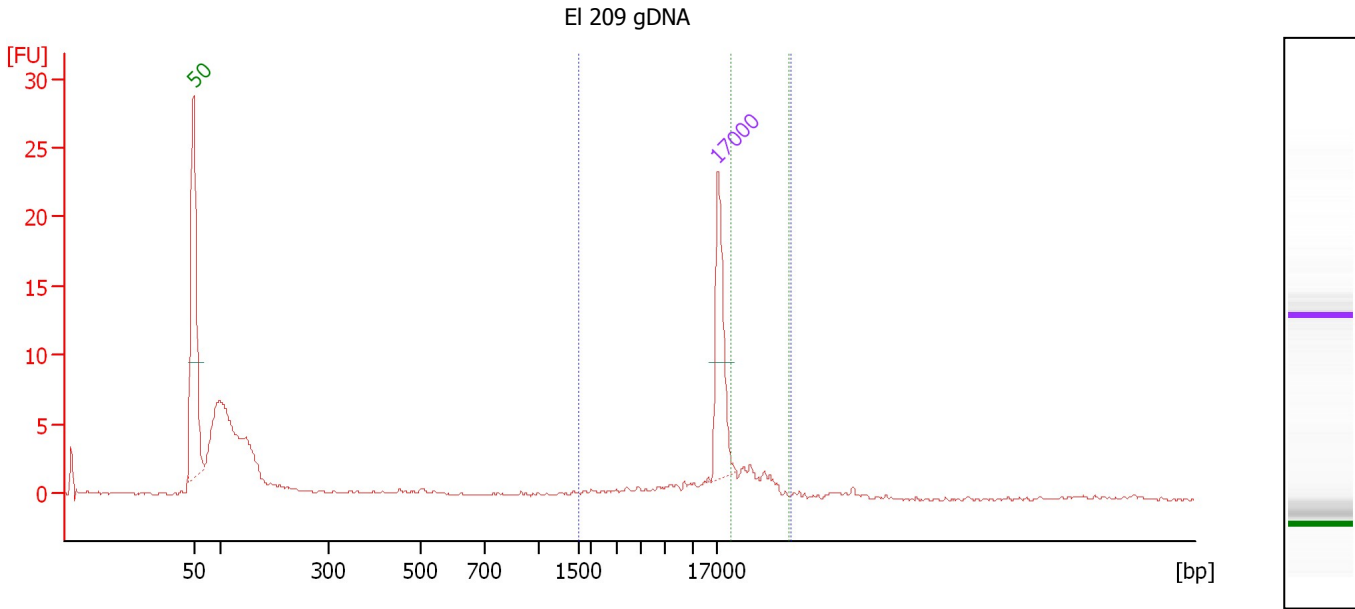
Peak table for Ladder

| Peak | Size [bp] | Conc. [ng/μl] | Molarity [nmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 50 | 8.30 | 251.5 | Lower Marker |
| 2 | 100 | 4.00 | 60.6 | Ladder Peak |
| 3 | 300 | 4.00 | 20.2 | Ladder Peak |
| 4 | 500 | 4.00 | 12.1 | Ladder Peak |
| 5 | 700 | 4.00 | 8.7 | Ladder Peak |
| 6 | 1,000 | 4.00 | 6.1 | Ladder Peak |
| 7 | 1,500 | 4.00 | 4.0 | Ladder Peak |
| 8 | 2,000 | 4.00 | 3.0 | Ladder Peak |
| 9 | 3,000 | 4.00 | 2.0 | Ladder Peak |
| 10 | 5,000 | 4.00 | 1.2 | Ladder Peak |
| 11 | 7,000 | 4.00 | 0.9 | Ladder Peak |
| 12 | 10,380 | 4.00 | 0.6 | Ladder Peak |
| 13 | 17,000 | 4.20 | 0.4 | Upper Marker |

Assay Class: DNA 12000
 Data Path: C:\...nd Settings\Bioanalyzer\2014-09-09\2014-09-09_001_Cantu.xad

Created: 9/9/2014 9:44:03 AM
 Modified: 9/9/2014 10:19:04 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : EI 209 gDNA

Number of peaks found: 0 Area 2: 5.2
 Area 1: 10.2

Peak table for sample 7 : EI 209 gDNA

| Peak | Size [bp] | Conc. [ng/μl] | Molarity [nmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 50 | 8.30 | 251.5 | Lower Marker |
| 2 | 17,000 | 4.20 | 0.4 | Upper Marker |

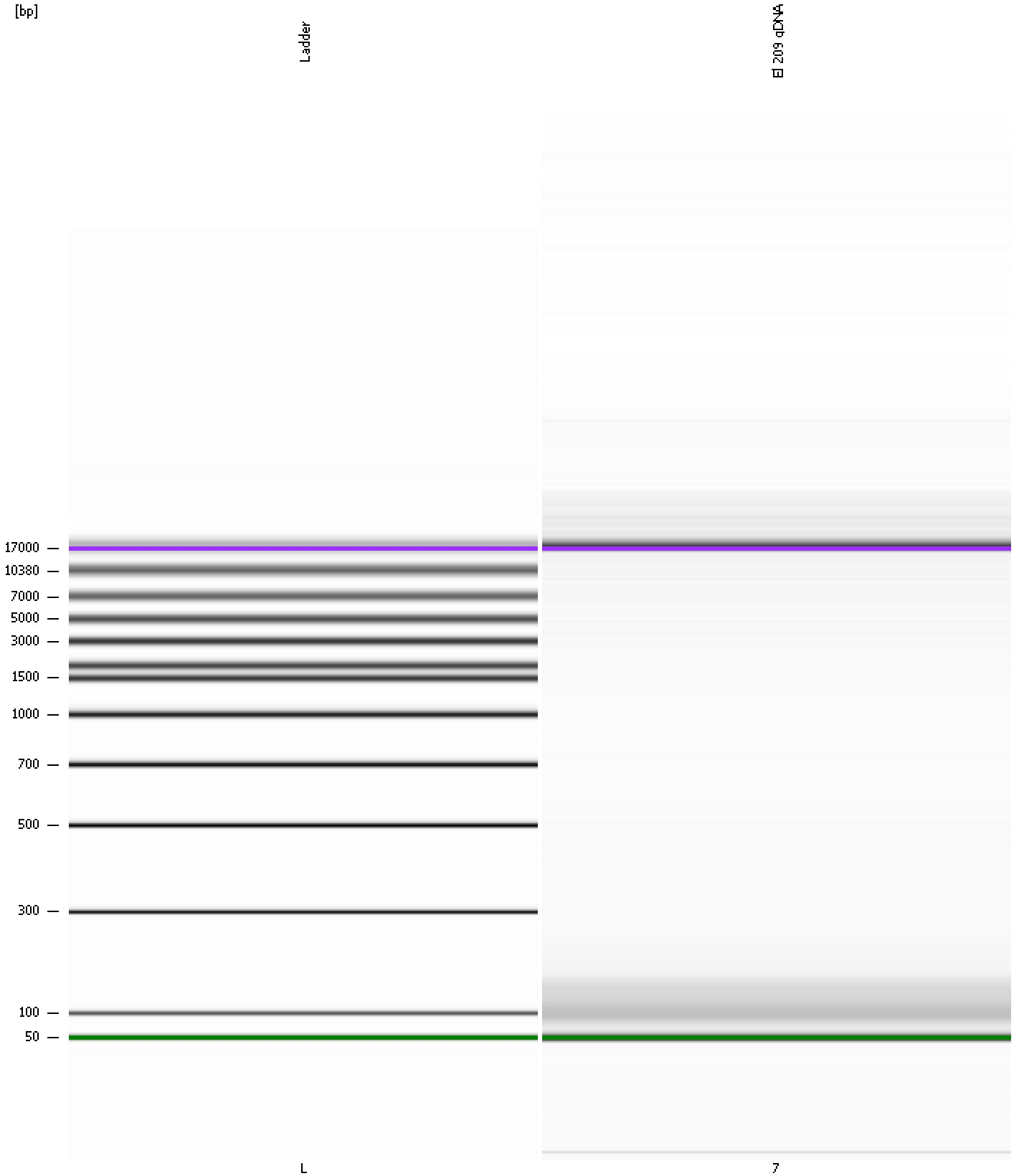
Region table for sample 7 : EI 209 gDNA

| From [bp] | To [bp] | Average Size [bp] | Conc. [ng/μl] | Area | % of Total | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|---------------|------|------------|-----------------------------|-------|
| 1,552 | 36,835 | 17,589 | 3.04 | 10.2 | 29 | 37.6 | Blue |
| 20,426 | 36,269 | 26,256 | 1.49 | 5.2 | 15 | 15.0 | Green |

Assay Class: DNA 12000
Data Path: C:\...nd Settings\Bioanalyzer\2014-09-09\2014-09-09_001_Cantu.xad

Created: 9/9/2014 9:44:03 AM
Modified: 9/9/2014 10:19:04 AM

Gel Image



Assay Class: DNA 12000
 Data Path: C:\...nd Settings\Bioanalyzer\2014-09-09\2014-09-09_001_Cantu.xad

Created: 9/9/2014 9:44:03 AM
 Modified: 9/9/2014 10:19:04 AM

Run Logbook

| Description | Number | Source | Category | Sub Category | Time | Time Zone | User | Host |
|---|--------|------------|----------|--------------|----------------------|-------------------------------------|----------|----------|
| Run ended on port 1 (Number of wells acquired: 8) | | Instrument | Run | | 9/9/2014 10:08:28 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-09-09\2014-09-09_001.xad) | | Instrument | Run | | 9/9/2014 9:44:09 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Product Number : G2938B | | Instrument | Run | | 9/9/2014 9:44:09 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Name : | | Instrument | Run | | 9/9/2014 9:44:09 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Vendor : Agilent Technologies | | Instrument | Run | | 9/9/2014 9:44:09 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Serial# : DE13701086 | | Instrument | Run | | 9/9/2014 9:44:09 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Firmware : C.01.069 | | Instrument | Run | | 9/9/2014 9:44:09 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Cartridge : Electrode | | Instrument | Run | | 9/9/2014 9:44:09 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |