

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-06\2015-03-06_001.xad

Created: 3/6/2015 11:08:20 AM
Modified: 3/6/2015 11:34:53 AM

Electrophoresis File Run Summary

Instrument Information:

Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

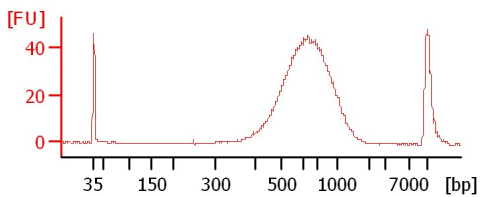
Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100
expert\assays\dsDNA\High Sensitivity DNA.xsy
Assay Class: High Sensitivity DNA Assay
Version: 1.03
Assay Comments: Copyright © 2003-2010 Agilent Technologies

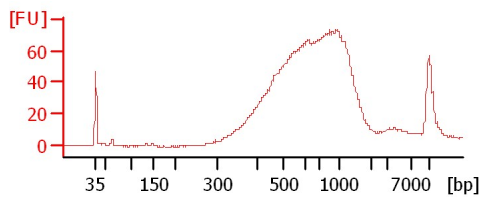
Chip Information:

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

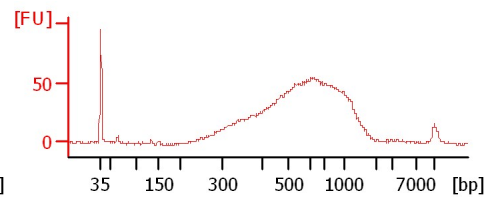
Teh X6 0.6x Bead Clean-up



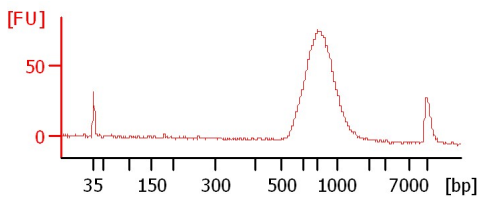
AF Lib 4/3/15 1-3



Af Lib 4/3/15 4-6



Fusarium



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Electrophoresis File Run Summary (Chip Summary)

| Sample Name | Sample Comment | Rest. Digest | Status | Observation | Result Label | Result Color |
|---------------------------|----------------|--------------------------|--------|-------------|--------------|--------------|
| Teh X6 0.6x Bead Clean-up | | <input type="checkbox"/> | ✓ | | | |
| AF Lib 4/3/15 1-3 | | <input type="checkbox"/> | ✓ | | | |
| Af Lib 4/3/15 4-6 | | <input type="checkbox"/> | ✓ | | | |
| Fusarium | | <input type="checkbox"/> | ✓ | | | |
| sample 5 | | <input type="checkbox"/> | | | | |
| sample 6 | | <input type="checkbox"/> | | | | |
| sample 7 | | <input type="checkbox"/> | | | | |
| sample 8 | | <input type="checkbox"/> | | | | |
| sample 9 | | <input type="checkbox"/> | | | | |
| sample 10 | | <input type="checkbox"/> | | | | |
| sample 11 | | <input type="checkbox"/> | | | | |
| Ladder | | <input type="checkbox"/> | ✓ | | | |

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] : 32
Maximum Visible Range [s] : 138
Start Analysis Time Range [s] : 33
End Analysis Time Range [s] : 137.5
Ladder Concentration [pg/μl] : 1950
Uses Standard Area for Ladder Fragments
Lower Marker Concentration [pg/μl] : 125
Upper Marker Concentration [pg/μl] : 75
Used Upper Marker for Quantitation
Standard Curve Fit is Point to Point
Show Data Aligned to Lower and Upper Marker

Integrator Settings

Integration Start Time [s] : 33.05
Integration End Time [s] : 137
Slope Threshold : 0.8
Height Threshold [FU] : 5
Area Threshold : 0.1
Width Threshold [s] : 0.6
Baseline Plateau [s] : 0.5

Filter Settings

Filter Width [s] : 0.5
Polynomial Order : 4

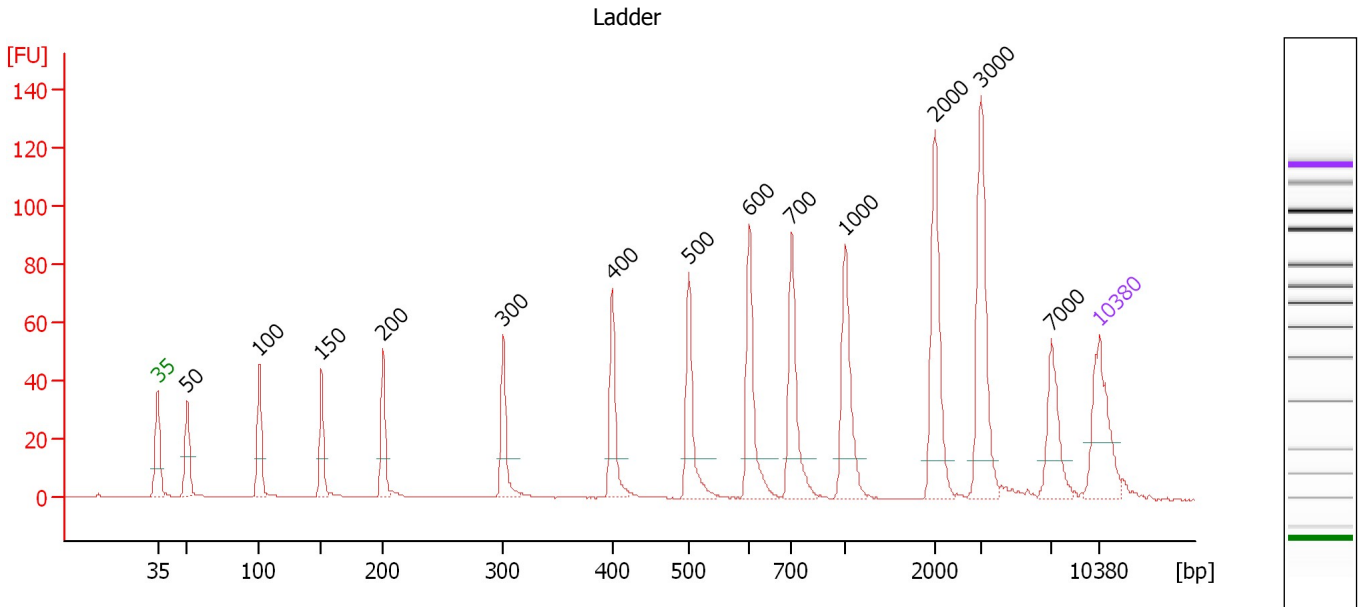
Ladder

| Ladder Peak | Size | Area |
|-------------|-------|------|
| 1 | 35 | 160 |
| 2 | 50 | 210 |
| 3 | 100 | 208 |
| 4 | 150 | 221 |
| 5 | 200 | 242 |
| 6 | 300 | 270 |
| 7 | 400 | 305 |
| 8 | 500 | 306 |
| 9 | 600 | 336 |
| 10 | 700 | 321 |
| 11 | 1000 | 366 |
| 12 | 2000 | 413 |
| 13 | 3000 | 411 |
| 14 | 7000 | 400 |
| 15 | 10380 | 214 |

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Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

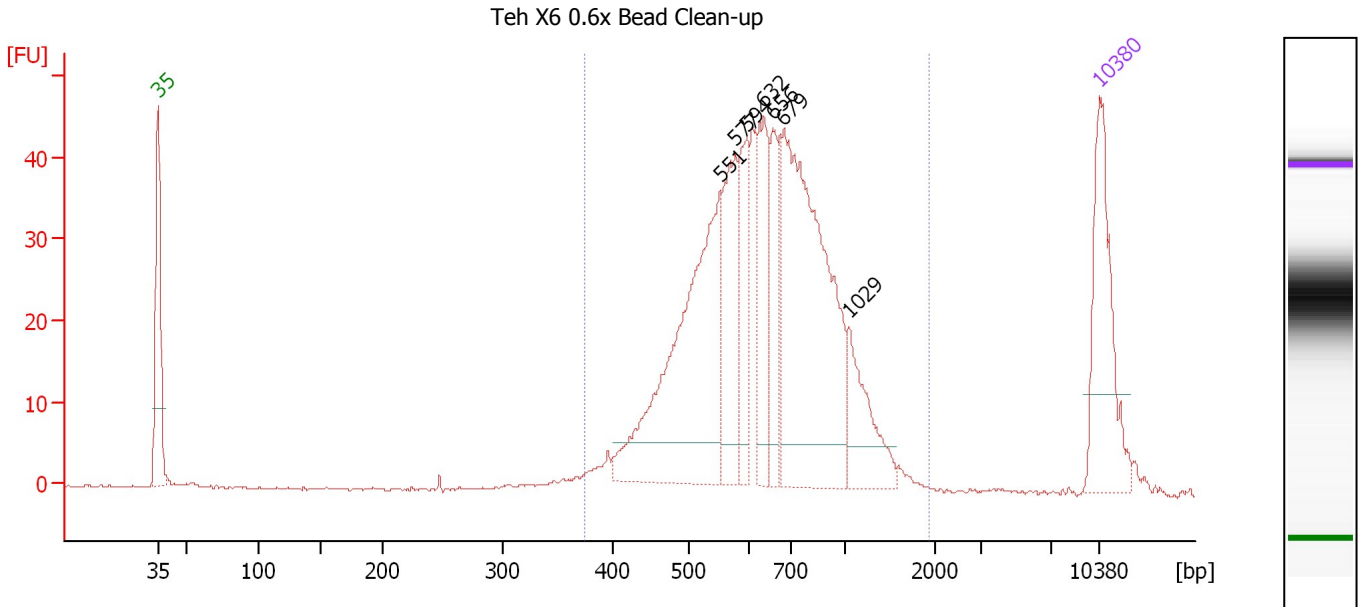
Peak table for Ladder

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker | 43.00 |
| 2 | 50 | 150.00 | 4,545.5 | Ladder Peak | 45.19 |
| 3 | 100 | 150.00 | 2,272.7 | Ladder Peak | 50.55 |
| 4 | 150 | 150.00 | 1,515.2 | Ladder Peak | 55.18 |
| 5 | 200 | 150.00 | 1,136.4 | Ladder Peak | 59.76 |
| 6 | 300 | 150.00 | 757.6 | Ladder Peak | 68.67 |
| 7 | 400 | 150.00 | 568.2 | Ladder Peak | 76.76 |
| 8 | 500 | 150.00 | 454.5 | Ladder Peak | 82.46 |
| 9 | 600 | 150.00 | 378.8 | Ladder Peak | 86.99 |
| 10 | 700 | 150.00 | 324.7 | Ladder Peak | 90.11 |
| 11 | 1,000 | 150.00 | 227.3 | Ladder Peak | 94.10 |
| 12 | 2,000 | 150.00 | 113.6 | Ladder Peak | 100.72 |
| 13 | 3,000 | 150.00 | 75.8 | Ladder Peak | 104.18 |
| 14 | 7,000 | 150.00 | 32.5 | Ladder Peak | 109.40 |
| 15 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

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Electropherogram Summary Continued ...



Overall Results for sample 1 : Teh X6 0.6x Bead Clean-up

Number of peaks found: 7 Corr. Area 1: 638.3
 Noise: 0.1

Peak table for sample 1 : Teh X6 0.6x Bead Clean-up

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker | 43.00 |
| 2 | 551 | 240.97 | 662.7 | | 84.77 |
| 3 | 577 | 81.62 | 214.4 | | 85.94 |
| 4 | 594 | 51.37 | 131.0 | | 86.72 |
| 5 | 632 | 68.41 | 164.0 | | 87.99 |
| 6 | 656 | 52.95 | 122.4 | | 88.72 |
| 7 | 679 | 272.19 | 607.2 | | 89.45 |
| 8 | 1,029 | 52.04 | 76.6 | | 94.29 |
| 9 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

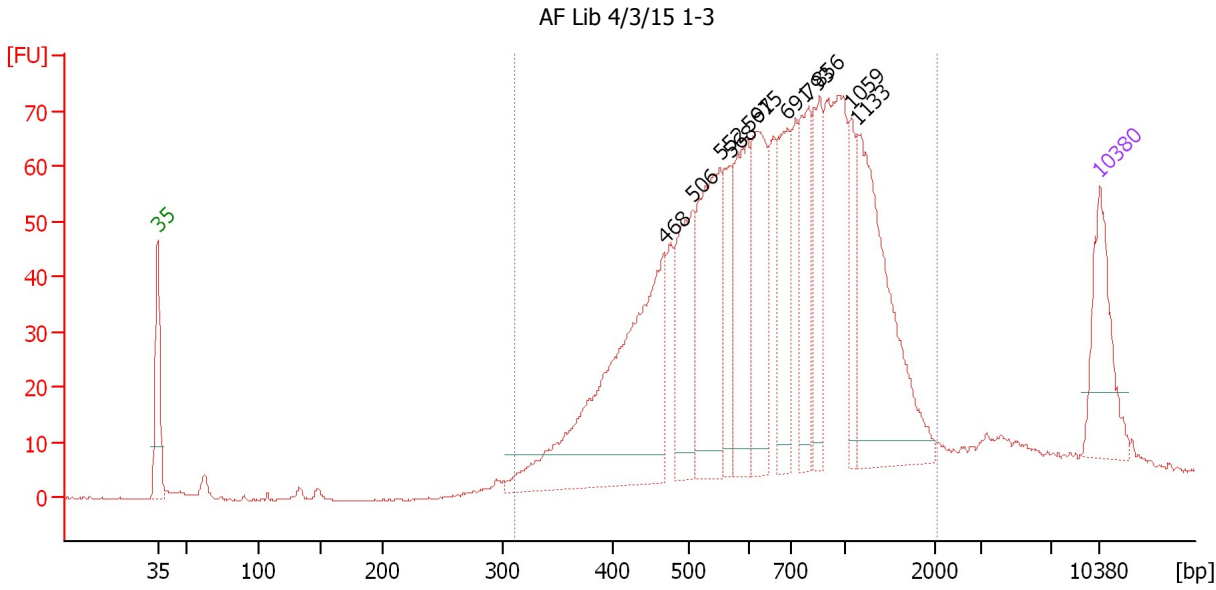
Region table for sample 1 : Teh X6 0.6x Bead Clean-up

| From [bp] | Average Size [bp] | To [bp] | Corr. Area | Molarity [pmol/l] | % of Total | Size distribution in CV [%] | Conc. [pg/μl] | Color |
|-----------|-------------------|---------|------------|-------------------|------------|-----------------------------|---------------|-------|
| 374 | 690 | 1,946 | 638.3 | 2,255.1 | 96 | 32.8 | 928.04 | Blue |

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Electropherogram Summary Continued ...



Overall Results for sample 2 : AF Lib 4/3/15 1-3

Number of peaks found: 11 Corr. Area 1: 1,492.4
 Noise: 0.2

Peak table for sample 2 : AF Lib 4/3/15 1-3

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker | 43.00 |
| 2 | 468 | 392.50 | 1,271.9 | | 80.61 |
| 3 | 506 | 137.50 | 411.8 | | 82.73 |
| 4 | 552 | 188.79 | 518.6 | | 84.79 |
| 5 | 568 | 61.85 | 165.0 | | 85.53 |
| 6 | 597 | 128.63 | 326.3 | | 86.86 |
| 7 | 615 | 129.02 | 317.9 | | 87.45 |
| 8 | 691 | 110.69 | 242.8 | | 89.81 |
| 9 | 793 | 95.07 | 181.7 | | 91.34 |
| 10 | 856 | 83.56 | 148.0 | | 92.18 |
| 11 | 1,059 | 54.65 | 78.2 | | 94.49 |
| 12 | 1,133 | 229.73 | 307.1 | | 94.98 |
| 13 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

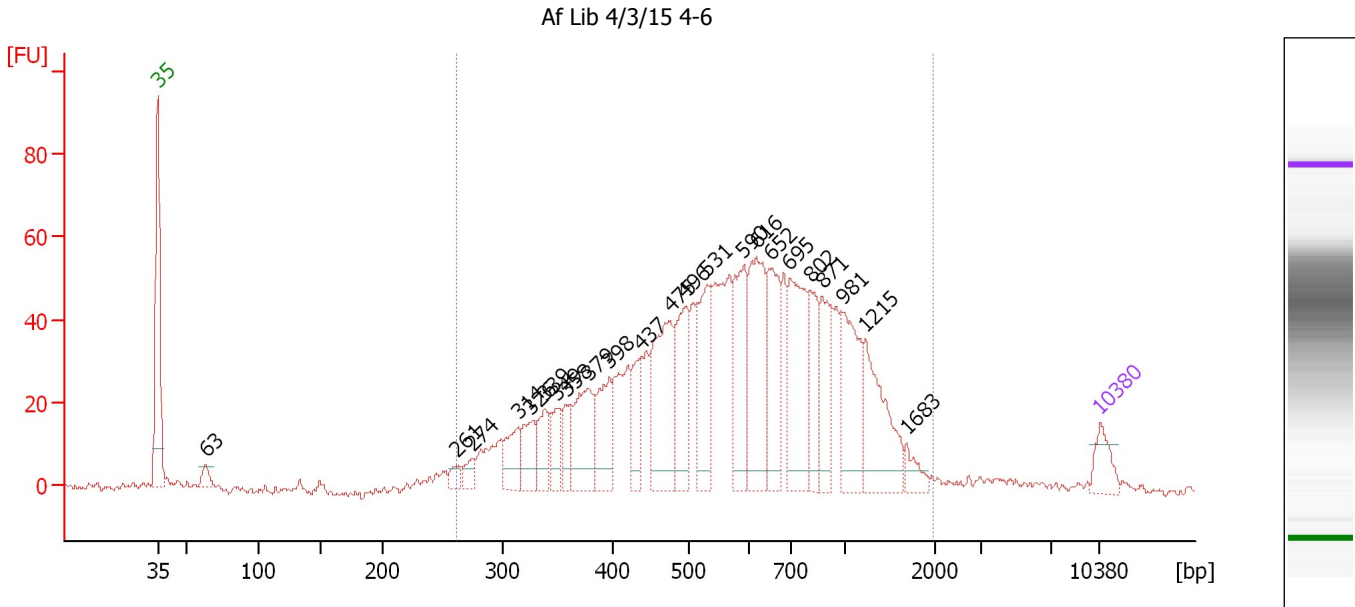
Region table for sample 2 : AF Lib 4/3/15 1-3

| From [bp] | Average Size [bp] | To [bp] | Corr. Area | Molarity [pmol/l] | % of Total | Size distribution in CV [%] | Conc. [pg/μl] | Color |
|-----------|-------------------|---------|------------|-------------------|------------|-----------------------------|---------------|-------|
| 311 | 761 | 2,040 | 1,492.4 | 5,221.9 | 92 | 45.4 | 2,115.61 | Blue |

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Electropherogram Summary Continued ...



Overall Results for sample 3 : Af Lib 4/3/15 4-6

Number of peaks found: 23 Corr. Area 1: 1,324.6
 Noise: 1.0

Peak table for sample 3 : Af Lib 4/3/15 4-6

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker | 43.00 |
| 2 | 63 | 56.19 | 1,357.3 | | 46.56 |
| 3 | 261 | 43.33 | 251.5 | | 65.20 |
| 4 | 274 | 53.62 | 296.3 | | 66.37 |
| 5 | 314 | 152.10 | 734.9 | | 69.77 |
| 6 | 326 | 141.38 | 656.8 | | 70.79 |
| 7 | 339 | 148.82 | 665.7 | | 71.80 |
| 8 | 349 | 108.66 | 472.0 | | 72.62 |
| 9 | 358 | 103.24 | 437.5 | | 73.33 |
| 10 | 379 | 290.39 | 1,161.2 | | 75.05 |
| 11 | 398 | 233.65 | 890.0 | | 76.58 |
| 12 | 437 | 150.22 | 520.9 | | 78.86 |
| 13 | 475 | 462.07 | 1,473.1 | | 81.05 |
| 14 | 496 | 297.40 | 908.9 | | 82.22 |
| 15 | 531 | 317.27 | 906.0 | | 83.84 |
| 16 | 590 | 349.46 | 897.4 | | 86.53 |
| 17 | 616 | 437.11 | 1,074.4 | | 87.50 |
| 18 | 652 | 272.35 | 632.6 | | 88.62 |
| 19 | 695 | 429.39 | 936.6 | | 89.94 |
| 20 | 802 | 180.50 | 341.0 | | 91.46 |
| 21 | 871 | 226.29 | 393.9 | | 92.38 |
| 22 | 981 | 304.04 | 469.5 | | 93.85 |
| 23 | 1,215 | 321.37 | 400.7 | | 95.53 |
| 24 | 1,683 | 53.81 | 48.4 | | 98.62 |
| 25 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

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Electropherogram Summary Continued ...

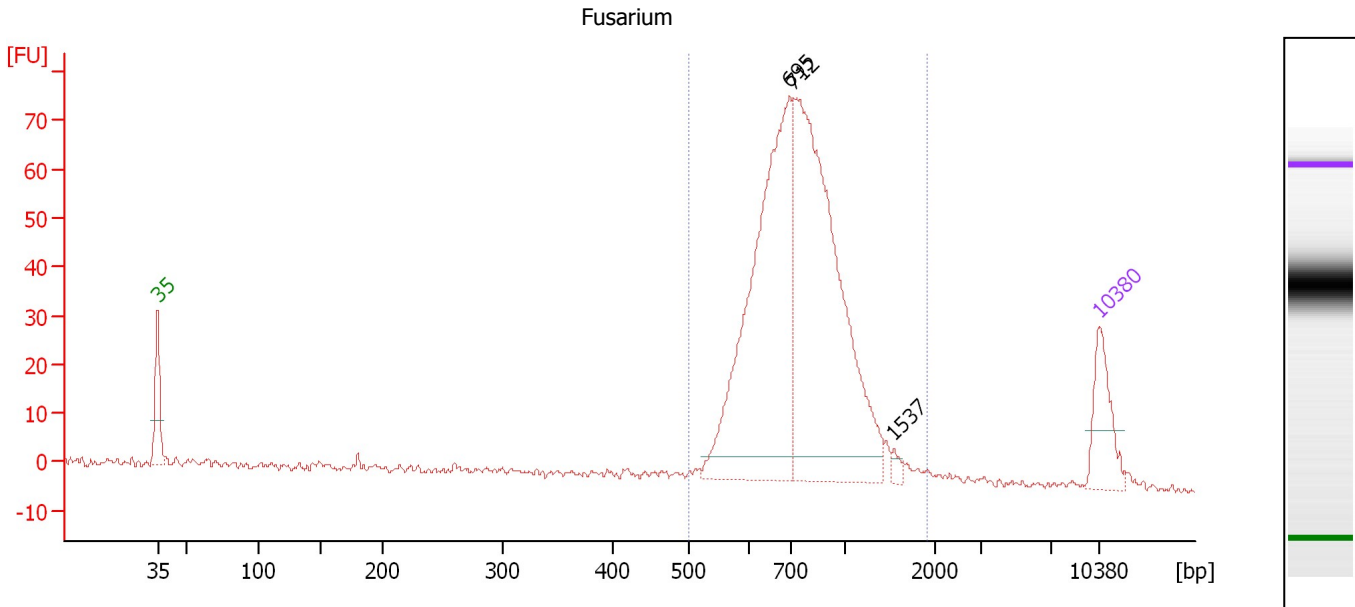
... Region table for sample 3 : Af Lib 4/3/15 4-6

| From [bp] | Average Size [bp] | To [bp] | Corr. Area | Molarity [pmol/l] | % of Total | Size distribution in CV [%] | Conc. [pg/μl] | Color |
|-----------|-------------------|---------|------------|-------------------|------------|-----------------------------|---------------|-------|
| 260 | 658 | 1,975 | 1,324.6 | 19,546.9 | 94 | 46.8 | 6,726.50 | ■ |

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Electropherogram Summary Continued ...



Overall Results for sample 4 : Fusarium

Number of peaks found: 3 Corr. Area 1: 643.2
 Noise: 0.7

Peak table for sample 4 : Fusarium

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker | 43.00 |
| 2 | 695 | 686.41 | 1,496.0 | | 89.96 |
| 3 | 712 | 767.19 | 1,633.2 | | 90.26 |
| 4 | 1,537 | 10.18 | 10.0 | | 97.65 |
| 5 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

Region table for sample 4 : Fusarium

| From [bp] | Average Size [bp] | To [bp] | Corr. Area | Molarity [pmol/l] | % of Total | Size distribution in CV [%] | Conc. [pg/μl] | Color |
|-----------|-------------------|---------|------------|-------------------|------------|-----------------------------|---------------|-------|
| 500 | 795 | 1,923 | 643.2 | 2,848.3 | 95 | 27.1 | 1,402.91 | Blue |

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-06\2015-03-06_001.xad

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Gel Image

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-06\2015-03-06_001.xad

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Invalid Samples

Sample 5 has not been run, no results available.

Sample 6 has not been run, no results available.

Sample 7 has not been run, no results available.

Sample 8 has not been run, no results available.

Sample 9 has not been run, no results available.

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-06\2015-03-06_001.xad

Created: 3/6/2015 11:08:20 AM
 Modified: 3/6/2015 11:34:53 AM

Run Logbook

| Description | Number | Source | Category | Sub Category | Time | Time Zone | User | Host |
|---|--------|------------|----------|--------------|----------------------|-------------------------------------|----------|----------|
| Run ended on port 1 (Number of wells acquired: 5) | | Instrument | Run | | 3/6/2015 11:29:40 AM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-03-06\2015-03-06_001.xad) | | Instrument | Run | | 3/6/2015 11:08:25 AM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Product Number : G2938B | | Instrument | Run | | 3/6/2015 11:08:25 AM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Name : | | Instrument | Run | | 3/6/2015 11:08:25 AM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Vendor : Agilent Technologies | | Instrument | Run | | 3/6/2015 11:08:25 AM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Serial# : DE13701086 | | Instrument | Run | | 3/6/2015 11:08:25 AM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Firmware : C.01.069 | | Instrument | Run | | 3/6/2015 11:08:25 AM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Cartridge : Electrode | | Instrument | Run | | 3/6/2015 11:08:25 AM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |