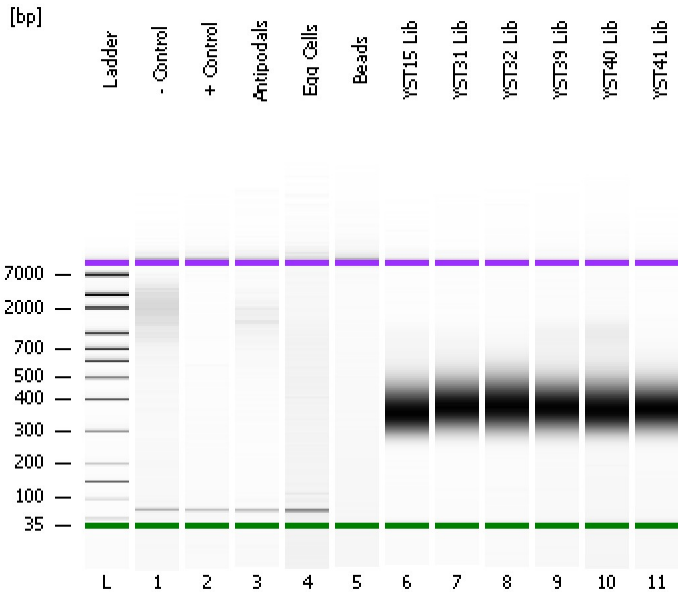


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-06-28\2012-06-28_002.xad

Created: 6/28/2012 3:23:29 PM
Modified: 6/28/2012 4:05:57 PM

Electrophoresis File Run Summary



Instrument Information:

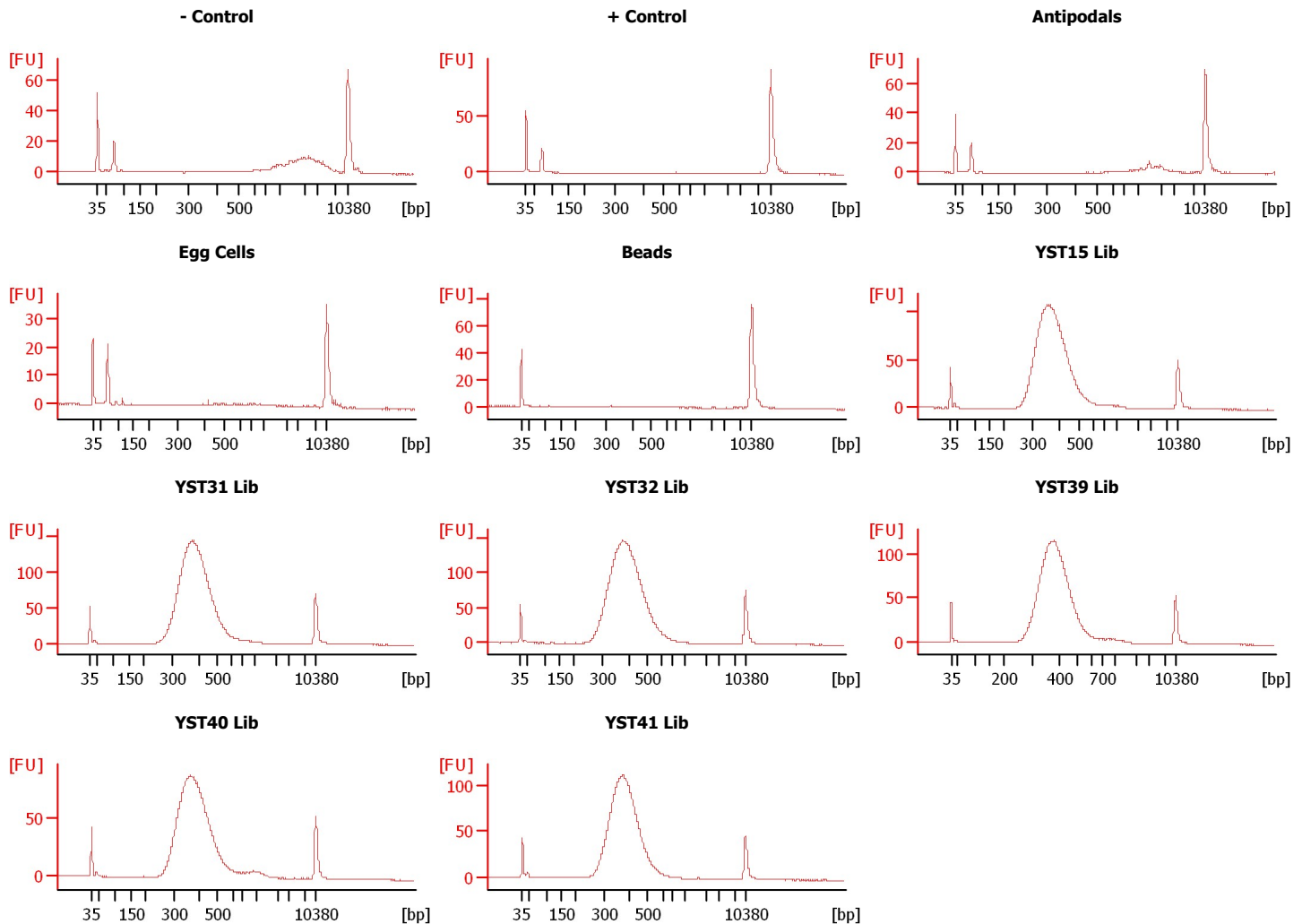
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\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:



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-06-28\2012-06-28_002.xad

Created: 6/28/2012 3:23:29 PM
 Modified: 6/28/2012 4:05:57 PM

Electrophoresis File Run Summary (Chip Summary)

| Sample Name | Sample Comment | Rest. Digest | Status | Observation | Result Label | Result Color |
|-------------|----------------|--------------------------|--------|-------------|--------------|--------------|
| - Control | | <input type="checkbox"/> | ✓ | | | |
| + Control | | <input type="checkbox"/> | ✓ | | | |
| Antipodals | | <input type="checkbox"/> | ✓ | | | |
| Egg Cells | | <input type="checkbox"/> | ✓ | | | |
| Beads | | <input type="checkbox"/> | ✓ | | | |
| YST15 Lib | | <input type="checkbox"/> | ✓ | | | |
| YST31 Lib | | <input type="checkbox"/> | ✓ | | | |
| YST32 Lib | | <input type="checkbox"/> | ✓ | | | |
| YST39 Lib | | <input type="checkbox"/> | ✓ | | | |
| YST40 Lib | | <input type="checkbox"/> | ✓ | | | |
| YST41 Lib | | <input type="checkbox"/> | ✓ | | | |
| Ladder | | <input type="checkbox"/> | ✓ | | | |

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-06-28\2012-06-28_002.xad

Created: 6/28/2012 3:23:29 PM
 Modified: 6/28/2012 4:05:57 PM

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

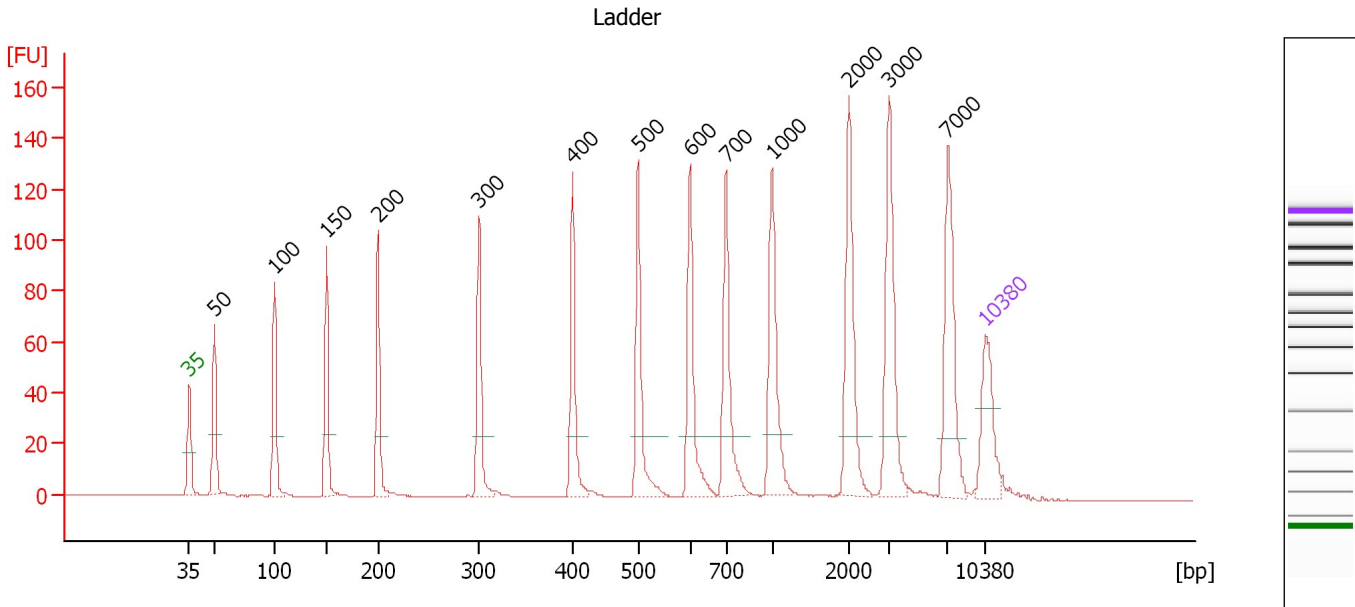
Ladder

| 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 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-06-28\2012-06-28_002.xad

Created: 6/28/2012 3:23:29 PM
 Modified: 6/28/2012 4:05:57 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

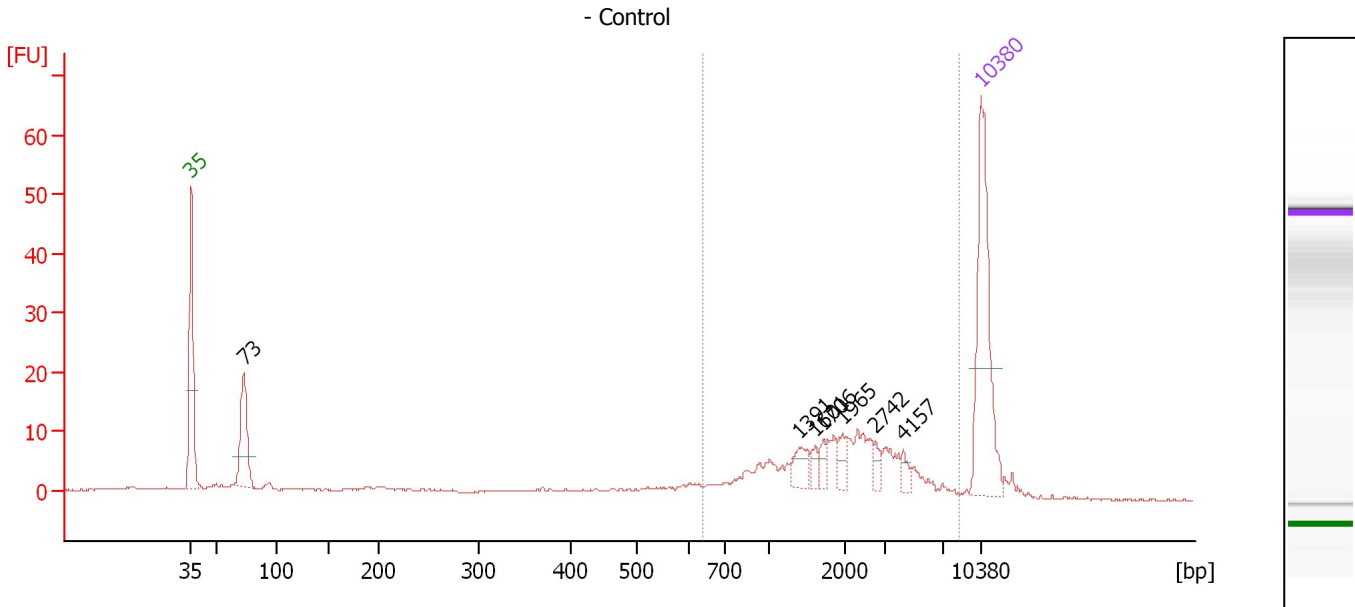
Peak table for Ladder

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 50 | 150.00 | 4,545.5 | Ladder Peak |
| 3 | 100 | 150.00 | 2,272.7 | Ladder Peak |
| 4 | 150 | 150.00 | 1,515.2 | Ladder Peak |
| 5 | 200 | 150.00 | 1,136.4 | Ladder Peak |
| 6 | 300 | 150.00 | 757.6 | Ladder Peak |
| 7 | 400 | 150.00 | 568.2 | Ladder Peak |
| 8 | 500 | 150.00 | 454.5 | Ladder Peak |
| 9 | 600 | 150.00 | 378.8 | Ladder Peak |
| 10 | 700 | 150.00 | 324.7 | Ladder Peak |
| 11 | 1,000 | 150.00 | 227.3 | Ladder Peak |
| 12 | 2,000 | 150.00 | 113.6 | Ladder Peak |
| 13 | 3,000 | 150.00 | 75.8 | Ladder Peak |
| 14 | 7,000 | 150.00 | 32.5 | Ladder Peak |
| 15 | 10,380 | 75.00 | 10.9 | Upper Marker |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-06-28\2012-06-28_002.xad

Created: 6/28/2012 3:23:29 PM
 Modified: 6/28/2012 4:05:57 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : - Control

Number of peaks found: 7 Corr. Area 1: 133.3
 Noise: 0.1

Peak table for sample 1 : - Control

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 73 | 61.43 | 1,276.4 | |
| 3 | 1,391 | 11.89 | 13.0 | |
| 4 | 1,601 | 5.51 | 5.2 | |
| 5 | 1,706 | 5.79 | 5.1 | |
| 6 | 1,965 | 7.39 | 5.7 | |
| 7 | 2,742 | 4.95 | 2.7 | |
| 8 | 4,157 | 5.12 | 1.9 | |
| 9 | 10,380 | 75.00 | 10.9 | Upper Marker |

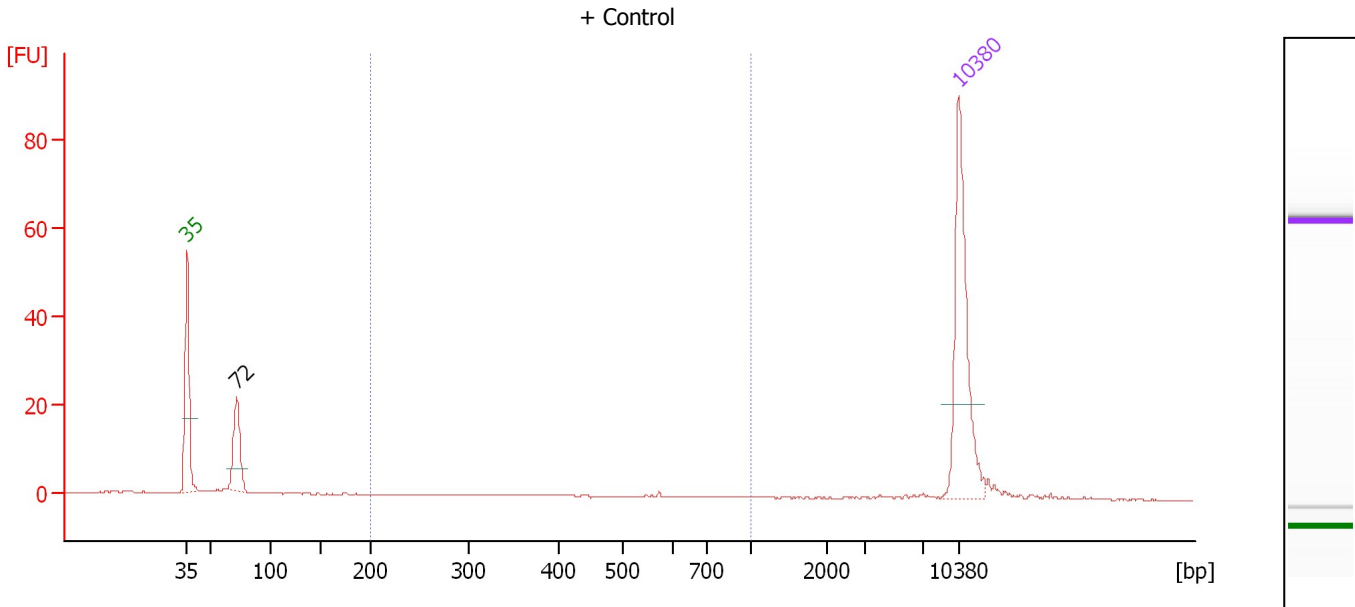
Region table for sample 1 : - Control

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------|
| 643 | 8,350 | 2,319 | 141.7 | 153.40 | 133.3 | 58 | 61.5 | Blue |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-06-28\2012-06-28_002.xad

Created: 6/28/2012 3:23:29 PM
 Modified: 6/28/2012 4:05:57 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : + Control

Number of peaks found: 1 Corr. Area 1: 4.5
 Noise: 0.1

Peak table for sample 2 : + Control

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 72 | 49.92 | 1,055.4 | |
| 3 | 10,380 | 75.00 | 10.9 | Upper Marker |

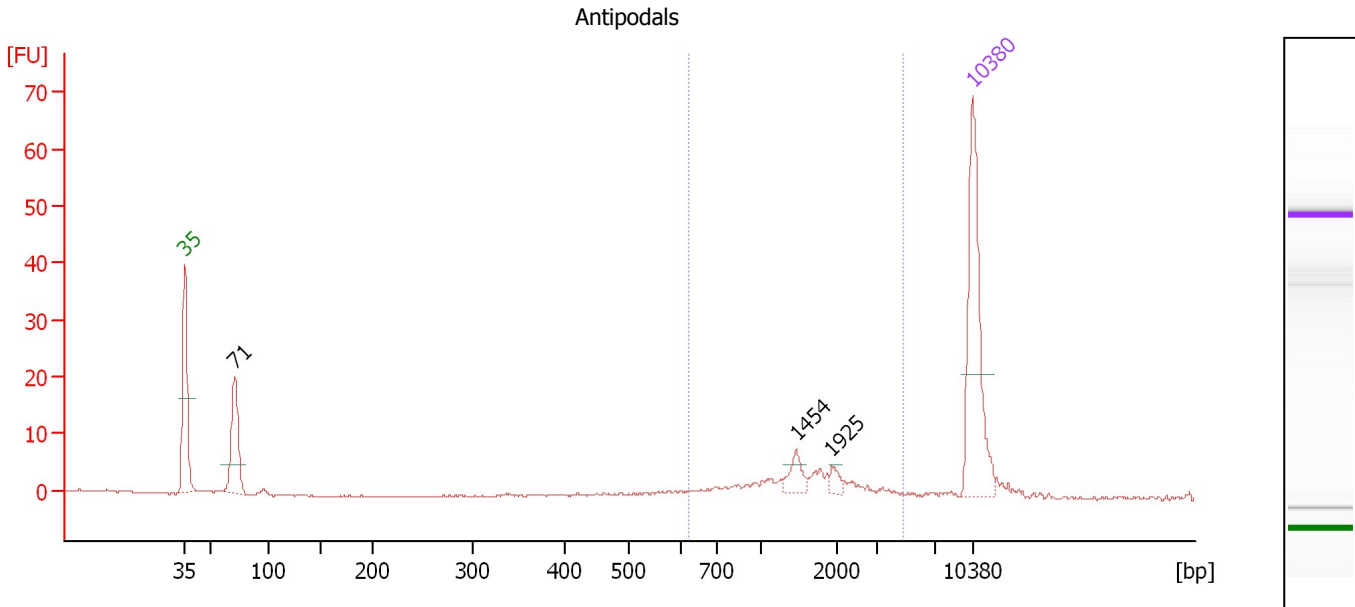
Region table for sample 2 : + Control

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------|
| 200 | 1,000 | 445 | 20.5 | 4.98 | 4.5 | 7 | 40.2 | Blue |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-06-28\2012-06-28_002.xad

Created: 6/28/2012 3:23:29 PM
 Modified: 6/28/2012 4:05:57 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Antipodals

Number of peaks found: 3 Corr. Area 1: 38.0
 Noise: 0.1

Peak table for sample 3 : Antipodals

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 71 | 67.44 | 1,434.3 | |
| 3 | 1,454 | 10.89 | 11.3 | |
| 4 | 1,925 | 5.45 | 4.3 | |
| 5 | 10,380 | 75.00 | 10.9 | Upper Marker |

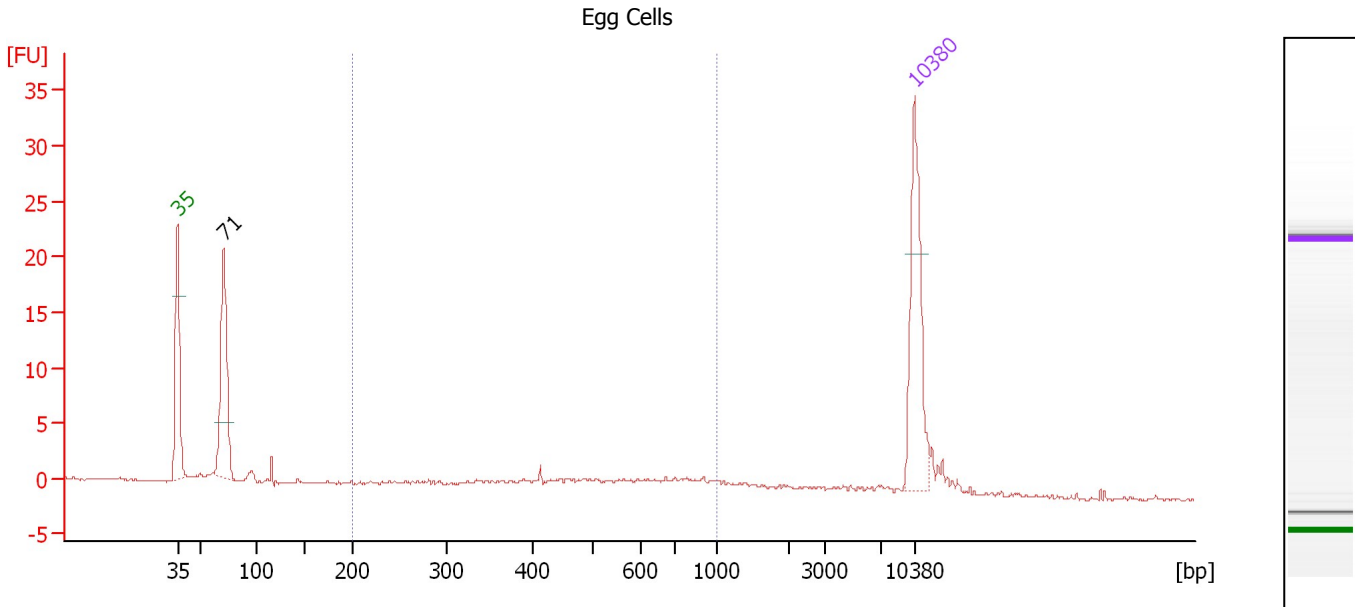
Region table for sample 3 : Antipodals

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------|
| 624 | 4,801 | 1,602 | 47.6 | 43.22 | 38.0 | 52 | 38.0 | Blue |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-06-28\2012-06-28_002.xad

Created: 6/28/2012 3:23:29 PM
 Modified: 6/28/2012 4:05:57 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Egg Cells

Number of peaks found: 1 Corr. Area 1: 22.6
 Noise: 0.1

Peak table for sample 4 : Egg Cells

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 71 | 130.56 | 2,795.6 | |
| 3 | 10,380 | 75.00 | 10.9 | Upper Marker |

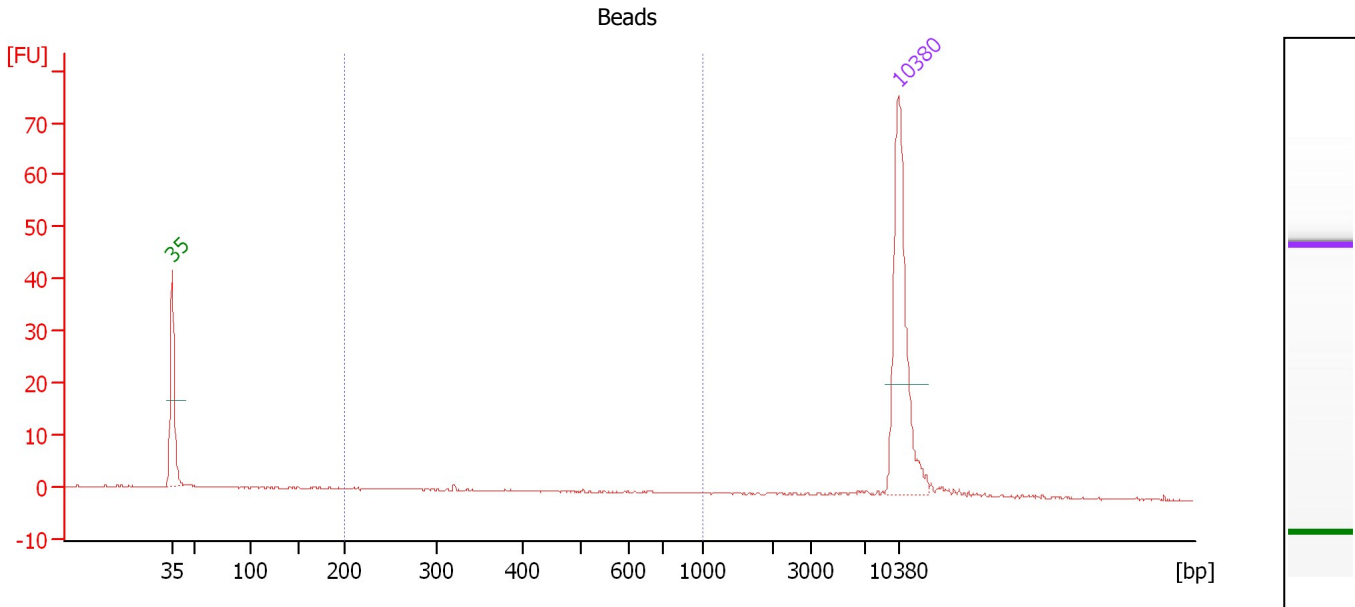
Region table for sample 4 : Egg Cells

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------|
| 200 | 1,000 | 544 | 227.2 | 67.23 | 22.6 | 30 | 35.3 | Blue |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-06-28\2012-06-28_002.xad

Created: 6/28/2012 3:23:29 PM
 Modified: 6/28/2012 4:05:57 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Beads

Number of peaks found: 0 Corr. Area 1: 8.6
 Noise: 0.1

Peak table for sample 5 : Beads

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 10,380 | 75.00 | 10.9 | Upper Marker |

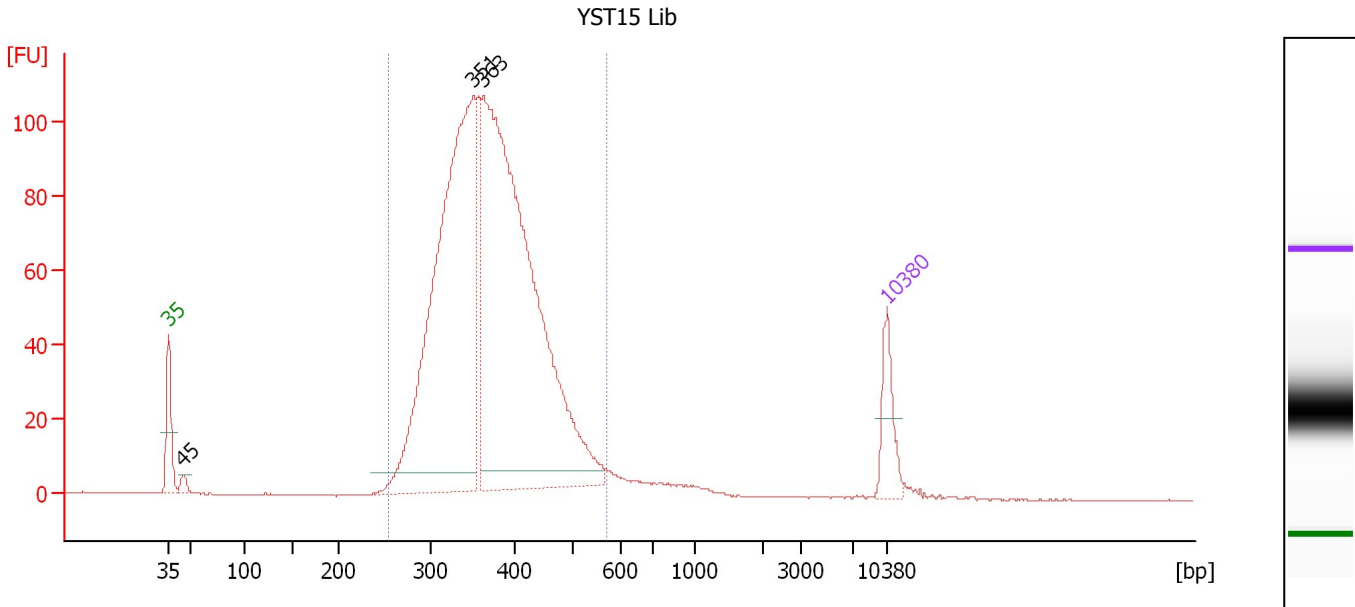
Region table for sample 5 : Beads

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------|
| 200 | 1,000 | 434 | 44.4 | 10.19 | 8.6 | 30 | 41.4 | Blue |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-06-28\2012-06-28_002.xad

Created: 6/28/2012 3:23:29 PM
 Modified: 6/28/2012 4:05:57 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : YST15 Lib

Number of peaks found: 3 Corr. Area 1: 1,553.3
 Noise: 0.1

Peak table for sample 6 : YST15 Lib

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 45 | 23.09 | 779.0 | |
| 3 | 351 | 1,321.06 | 5,695.6 | |
| 4 | 363 | 1,648.28 | 6,871.1 | |
| 5 | 10,380 | 75.00 | 10.9 | Upper Marker |

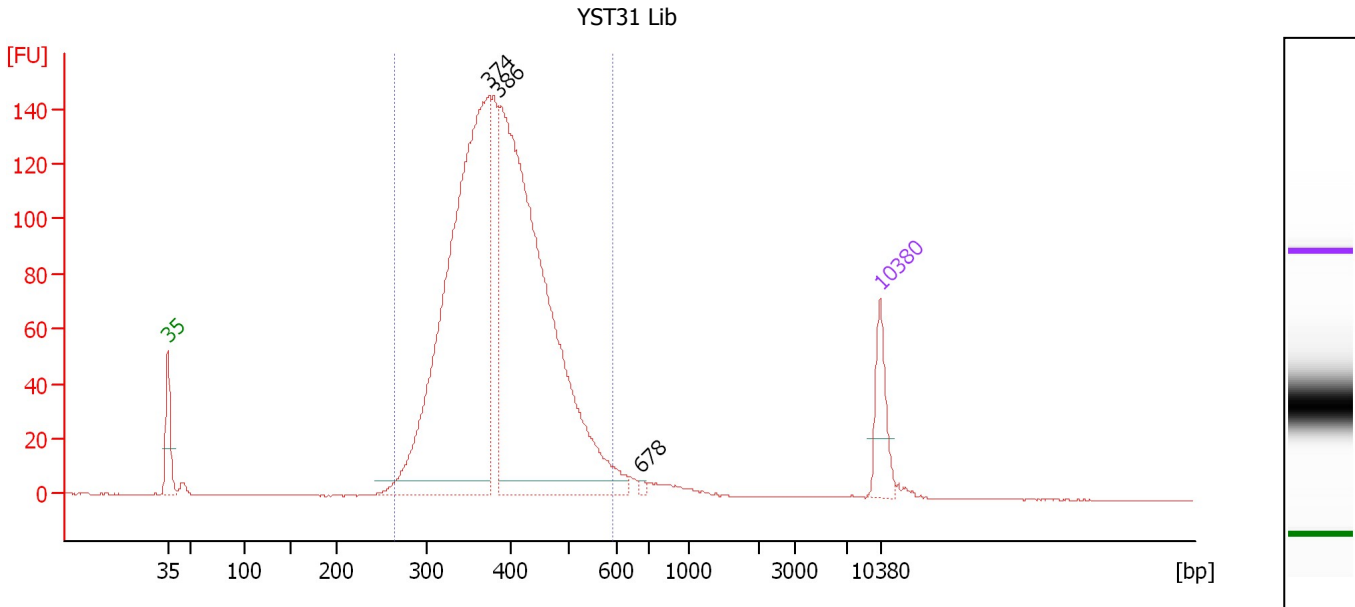
Region table for sample 6 : YST15 Lib

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------|
| 254 | 571 | 374 | 13,221.0 | 3,173.90 | 1,553.3 | 96 | 15.5 | Blue |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-06-28\2012-06-28_002.xad

Created: 6/28/2012 3:23:29 PM
 Modified: 6/28/2012 4:05:57 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : YST31 Lib

Number of peaks found: 3 Corr. Area 1: 2,070.7
 Noise: 0.1

Peak table for sample 7 : YST31 Lib

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 374 | 1,380.54 | 5,599.3 | |
| 3 | 386 | 1,464.31 | 5,752.2 | |
| 4 | 678 | 5.14 | 11.5 | |
| 5 | 10,380 | 75.00 | 10.9 | Upper Marker |

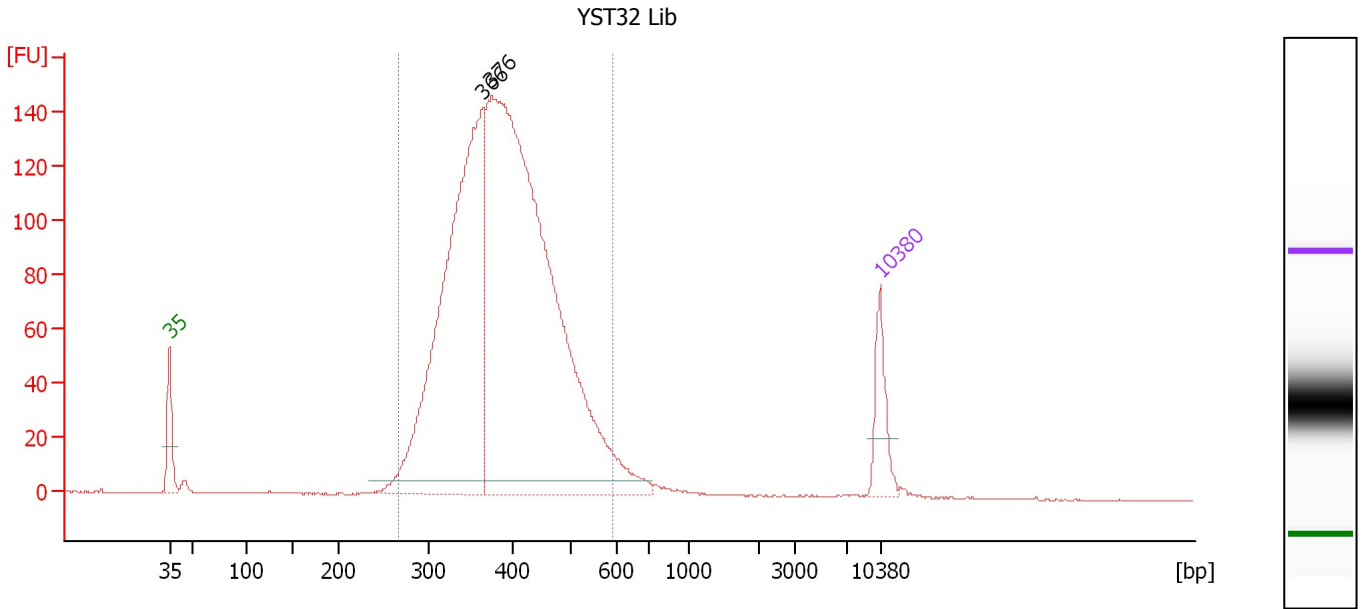
Region table for sample 7 : YST31 Lib

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------|
| 263 | 594 | 393 | 12,103.0 | 3,044.04 | 2,070.7 | 96 | 15.8 | Blue |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-06-28\2012-06-28_002.xad

Created: 6/28/2012 3:23:29 PM
 Modified: 6/28/2012 4:05:57 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : YST32 Lib

Number of peaks found: 2 Corr. Area 1: 2,231.8
 Noise: 0.1

Peak table for sample 8 : YST32 Lib

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 366 | 1,209.34 | 5,004.8 | |
| 3 | 376 | 2,006.49 | 8,091.6 | |
| 4 | 10,380 | 75.00 | 10.9 | Upper Marker |

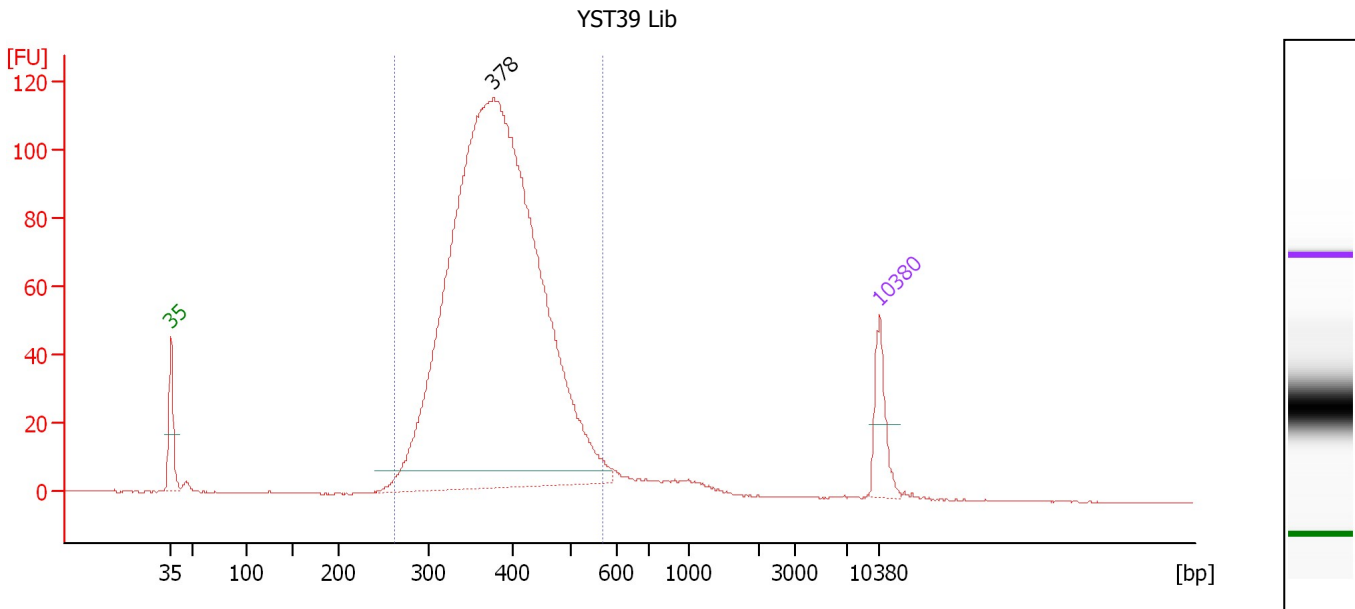
Region table for sample 8 : YST32 Lib

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------|
| 267 | 593 | 396 | 12,330.2 | 3,116.26 | 2,231.8 | 96 | 16.5 | Blue |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-06-28\2012-06-28_002.xad

Created: 6/28/2012 3:23:29 PM
 Modified: 6/28/2012 4:05:57 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : YST39 Lib

Number of peaks found: 1 Corr. Area 1: 1,622.3
 Noise: 0.1

Peak table for sample 9 : YST39 Lib

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 378 | 2,995.93 | 12,024.0 | |
| 3 | 10,380 | 75.00 | 10.9 | Upper Marker |

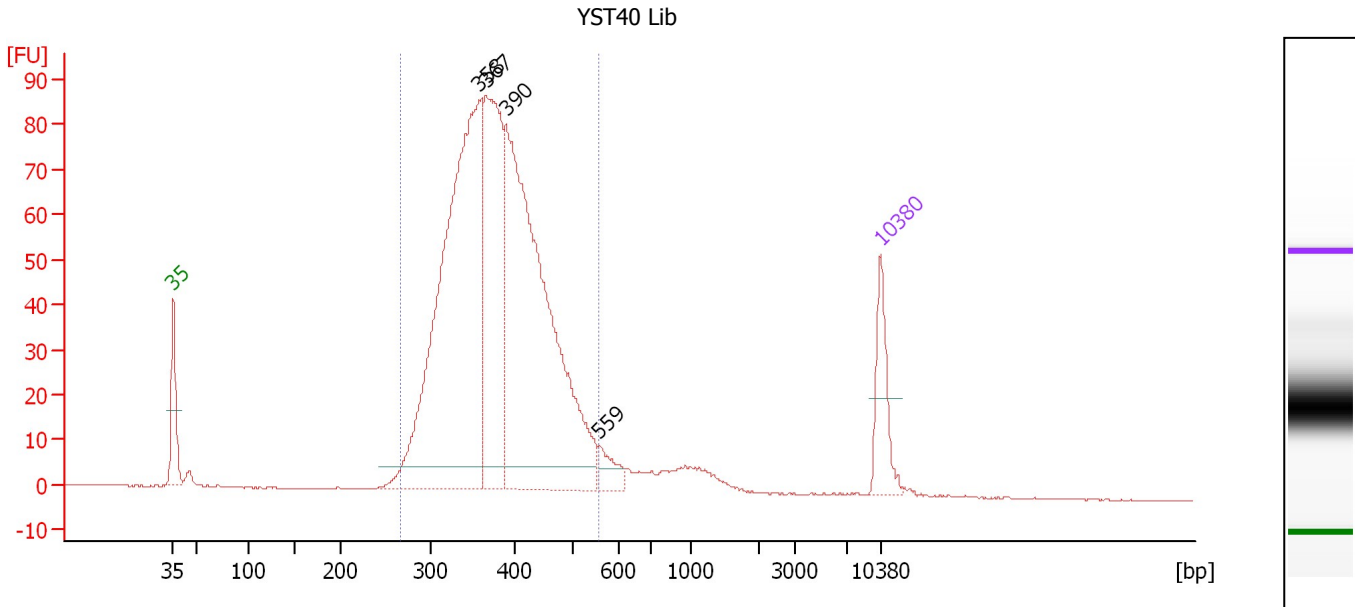
Region table for sample 9 : YST39 Lib

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------|
| 261 | 569 | 387 | 12,582.9 | 3,124.65 | 1,622.3 | 95 | 15.2 | Blue |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-06-28\2012-06-28_002.xad

Created: 6/28/2012 3:23:29 PM
 Modified: 6/28/2012 4:05:57 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : YST40 Lib

Number of peaks found: 4 Corr. Area 1: 1,263.8
 Noise: 0.1

Peak table for sample 10 : YST40 Lib

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 358 | 1,043.95 | 4,416.1 | |
| 3 | 367 | 454.80 | 1,880.0 | |
| 4 | 390 | 958.45 | 3,720.5 | |
| 5 | 559 | 38.31 | 103.9 | |
| 6 | 10,380 | 75.00 | 10.9 | Upper Marker |

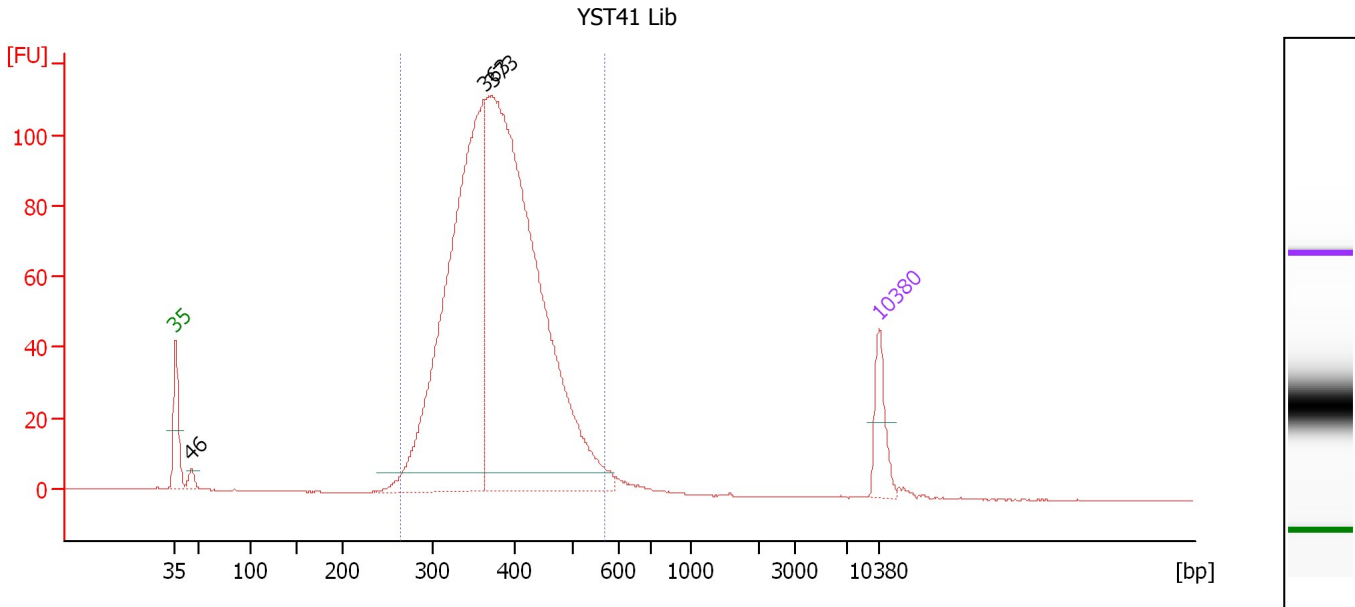
Region table for sample 10 : YST40 Lib

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------|
| 266 | 557 | 383 | 10,106.2 | 2,482.92 | 1,263.8 | 93 | 15.3 | Blue |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-06-28\2012-06-28_002.xad

Created: 6/28/2012 3:23:29 PM
 Modified: 6/28/2012 4:05:57 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : YST41 Lib

Number of peaks found: 3 Corr. Area 1: 1,502.9
 Noise: 0.1

Peak table for sample 11 : YST41 Lib

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 46 | 27.72 | 916.5 | |
| 3 | 363 | 1,385.77 | 5,778.4 | |
| 4 | 373 | 1,918.88 | 7,793.4 | |
| 5 | 10,380 | 75.00 | 10.9 | Upper Marker |

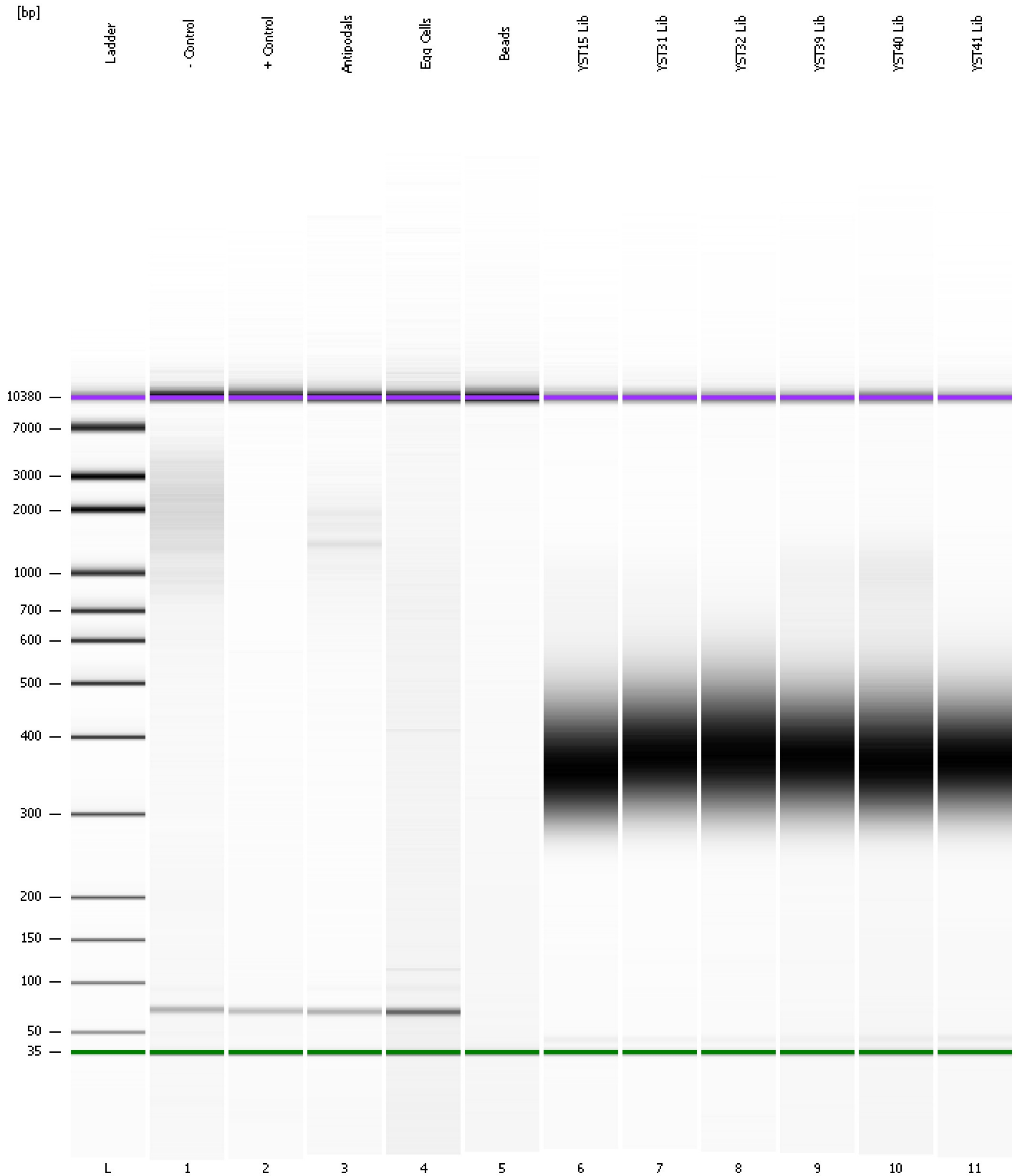
Region table for sample 11 : YST41 Lib

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------|
| 265 | 570 | 384 | 13,367.9 | 3,297.64 | 1,502.9 | 97 | 14.8 | Blue |

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-06-28\2012-06-28_002.xad

Created: 6/28/2012 3:23:29 PM
Modified: 6/28/2012 4:05:57 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-06-28\2012-06-28_002.xad

Created: 6/28/2012 3:23:29 PM
 Modified: 6/28/2012 4:05:57 PM

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 | | 6/28/2012 4:04:43 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2012-06-28\2012-06-28_002.xad) | | Instrument | Run | | 6/28/2012 3:23:30 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Product Number : G2938B | | Instrument | Run | | 6/28/2012 3:23:30 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Name : | | Instrument | Run | | 6/28/2012 3:23:30 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Vendor : Agilent Technologies | | Instrument | Run | | 6/28/2012 3:23:30 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Serial# : DE13701086 | | Instrument | Run | | 6/28/2012 3:23:30 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Firmware : C.01.069 | | Instrument | Run | | 6/28/2012 3:23:30 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Cartridge : Electrode | | Instrument | Run | | 6/28/2012 3:23:30 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |