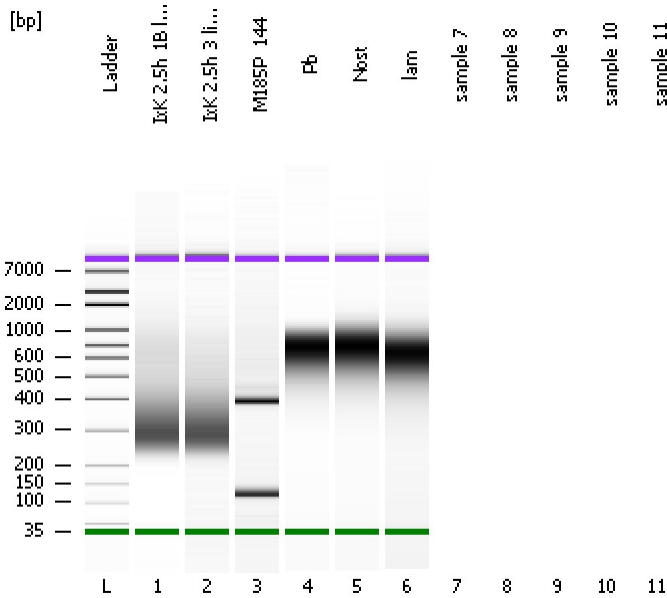


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-08-14\2015-08-14_001.xad

Created: 8/14/2015 4:31:26 PM
Modified: 8/14/2015 4:58:42 PM

Electrophoresis File Run Summary



Instrument Information:

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

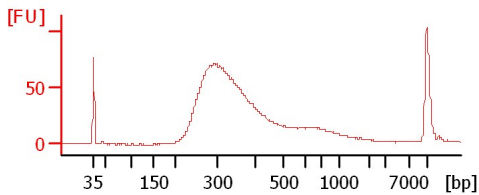
Assay Information:

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

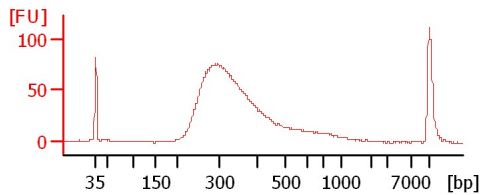
Chip Information:

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

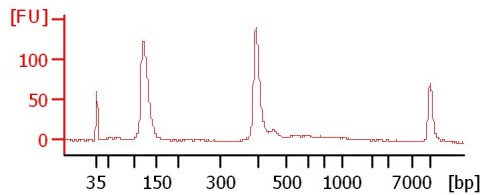
IxK 2.5h 1B library



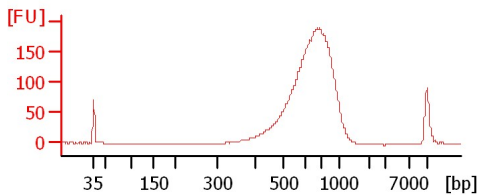
IxK 2.5h 3 library



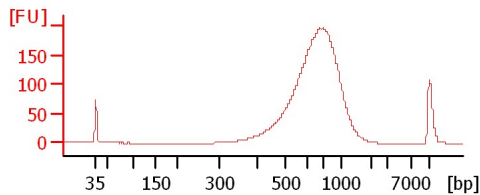
M185P_144



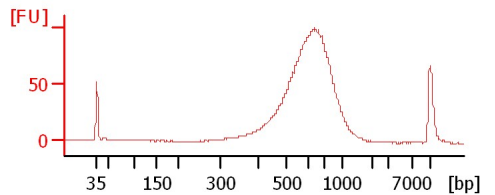
Pb



Nost



lam



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-08-14\2015-08-14_001.xad

Created: 8/14/2015 4:31:26 PM
Modified: 8/14/2015 4:58:42 PM

Electrophoresis File Run Summary (Chip Summary)

| Sample Name | Sample Comment | Rest. Digest | Status | Observation | Result Label | Result Color |
|---------------------|----------------|--------------------------|--------|-------------|--------------|--------------|
| IxK 2.5h 1B library | | <input type="checkbox"/> | ✓ | | | |
| IxK 2.5h 3 library | | <input type="checkbox"/> | ✓ | | | |
| M185P_144 | | <input type="checkbox"/> | ✓ | | | |
| Pb | | <input type="checkbox"/> | ✓ | | | |
| Nost | | <input type="checkbox"/> | ✓ | | | |
| lam | | <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 :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-08-14\2015-08-14_001.xad

Created: 8/14/2015 4:31:26 PM
Modified: 8/14/2015 4:58:42 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

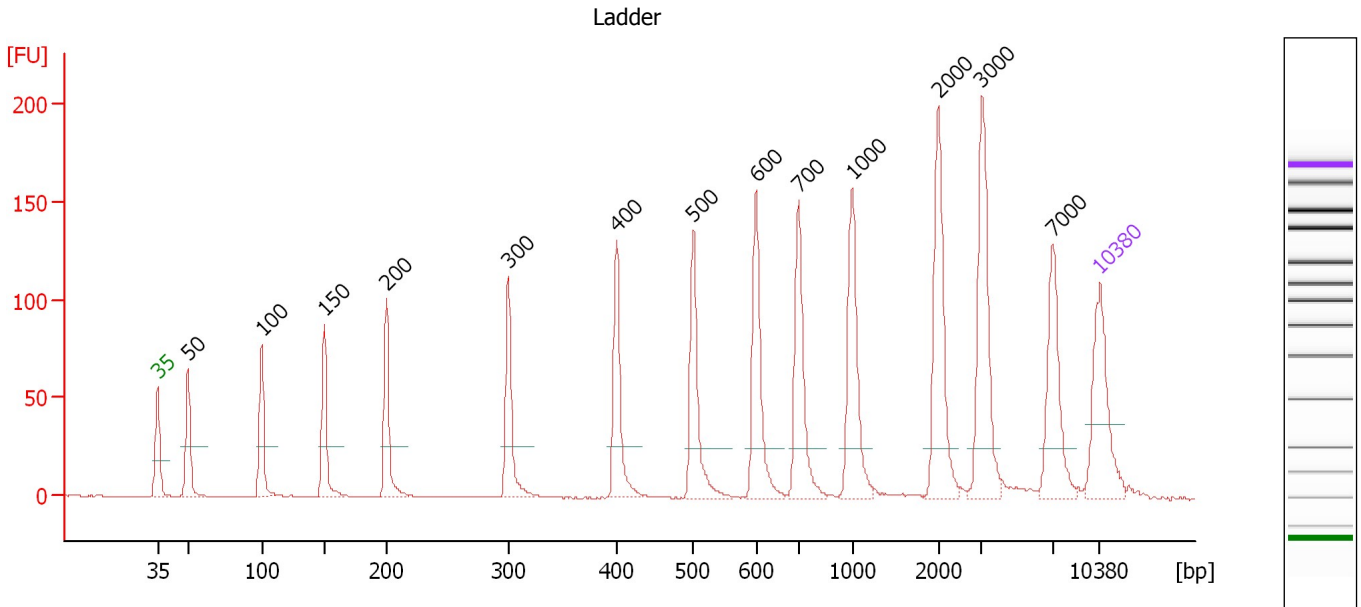
Ladder

| 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\2015-08-14\2015-08-14_001.xad

Created: 8/14/2015 4:31:26 PM
 Modified: 8/14/2015 4:58:42 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

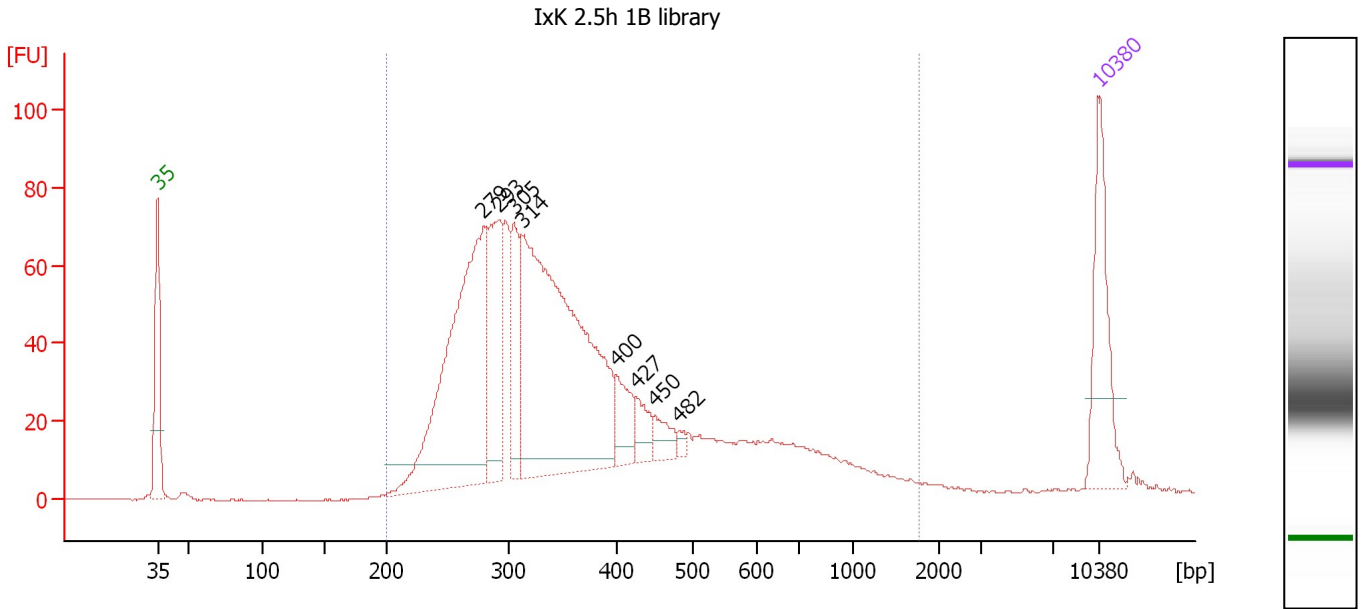
Peak table for Ladder

| 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 | 45.26 |
| 3 | 100 | 150.00 | 2,272.7 | Ladder Peak | 50.73 |
| 4 | 150 | 150.00 | 1,515.2 | Ladder Peak | 55.39 |
| 5 | 200 | 150.00 | 1,136.4 | Ladder Peak | 60.00 |
| 6 | 300 | 150.00 | 757.6 | Ladder Peak | 69.05 |
| 7 | 400 | 150.00 | 568.2 | Ladder Peak | 77.10 |
| 8 | 500 | 150.00 | 454.5 | Ladder Peak | 82.79 |
| 9 | 600 | 150.00 | 378.8 | Ladder Peak | 87.45 |
| 10 | 700 | 150.00 | 324.7 | Ladder Peak | 90.62 |
| 11 | 1,000 | 150.00 | 227.3 | Ladder Peak | 94.60 |
| 12 | 2,000 | 150.00 | 113.6 | Ladder Peak | 100.97 |
| 13 | 3,000 | 150.00 | 75.8 | Ladder Peak | 104.23 |
| 14 | 7,000 | 150.00 | 32.5 | Ladder Peak | 109.47 |
| 15 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-08-14\2015-08-14_001.xad

Created: 8/14/2015 4:31:26 PM
 Modified: 8/14/2015 4:58:42 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : IxK 2.5h 1B library

Number of peaks found: 8 Corr. Area 1: 1,492.0
 Noise: 0.2

Peak table for sample 1 : IxK 2.5h 1B library

| 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 | 279 | 383.20 | 2,077.7 | | 67.19 |
| 3 | 293 | 136.53 | 707.0 | | 68.38 |
| 4 | 305 | 78.39 | 389.0 | | 69.47 |
| 5 | 314 | 486.84 | 2,350.5 | | 70.16 |
| 6 | 400 | 40.44 | 153.3 | | 77.06 |
| 7 | 427 | 24.01 | 85.3 | | 78.62 |
| 8 | 450 | 20.43 | 68.8 | | 79.94 |
| 9 | 482 | 5.49 | 17.2 | | 81.77 |
| 10 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

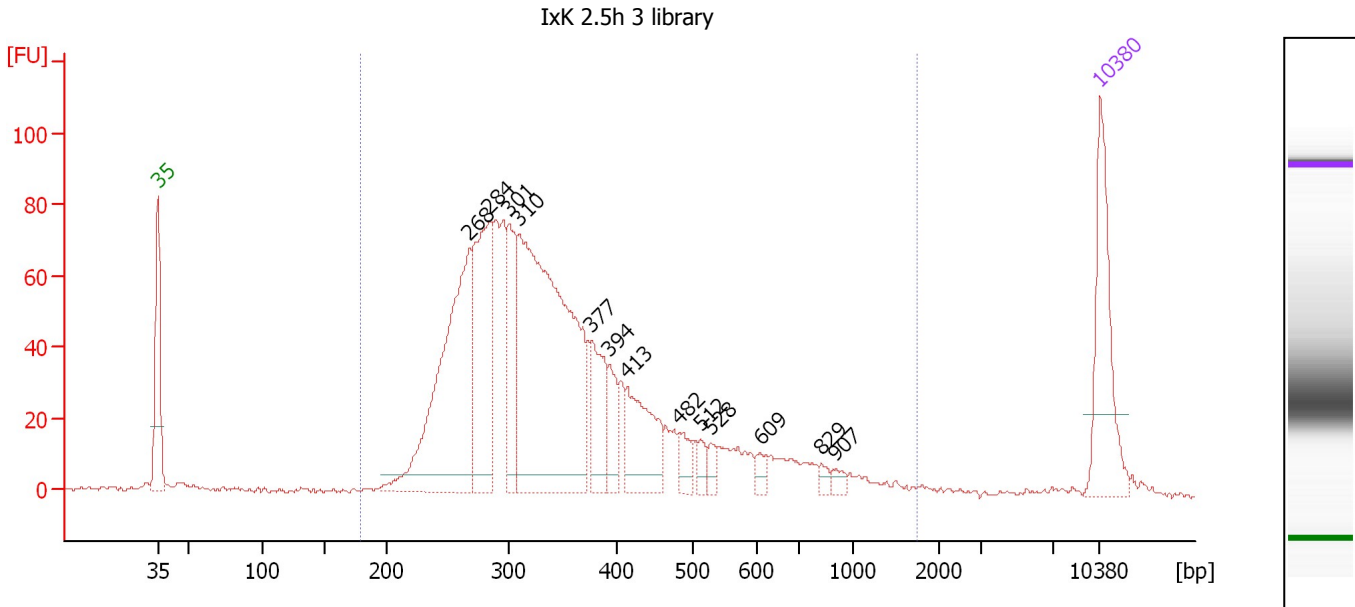
Region table for sample 1 : IxK 2.5h 1B library

| From [bp] | Average Size [bp] | To [bp] | Corr. Area | Molarity [pmol/l] | Co % of Ior Total | Size distribution in CV [%] | Conc. [pg/μl] |
|-----------|-------------------|---------|------------|-------------------|-------------------|-----------------------------|---------------|
| 200 | 400 | 1,782 | 1,492.0 | 7,170.6 | 98 | 50.8 | 1,582.43 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-08-14\2015-08-14_001.xad

Created: 8/14/2015 4:31:26 PM
 Modified: 8/14/2015 4:58:42 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : IxK 2.5h 3 library

Number of peaks found: 13 Corr. Area 1: 1,565.9
 Noise: 0.6

Peak table for sample 2 : IxK 2.5h 3 library

| 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 | 268 | 284.37 | 1,608.1 | | 66.15 |
| 3 | 284 | 172.04 | 916.3 | | 67.64 |
| 4 | 301 | 81.25 | 408.8 | | 69.14 |
| 5 | 310 | 435.93 | 2,127.6 | | 69.89 |
| 6 | 377 | 63.28 | 254.5 | | 75.22 |
| 7 | 394 | 31.70 | 122.1 | | 76.57 |
| 8 | 413 | 79.35 | 291.1 | | 77.84 |
| 9 | 482 | 18.14 | 57.0 | | 81.76 |
| 10 | 512 | 11.42 | 33.8 | | 83.35 |
| 11 | 528 | 8.62 | 24.7 | | 84.10 |
| 12 | 609 | 8.69 | 21.6 | | 87.75 |
| 13 | 829 | 5.97 | 10.9 | | 92.33 |
| 14 | 907 | 6.71 | 11.2 | | 93.36 |
| 15 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

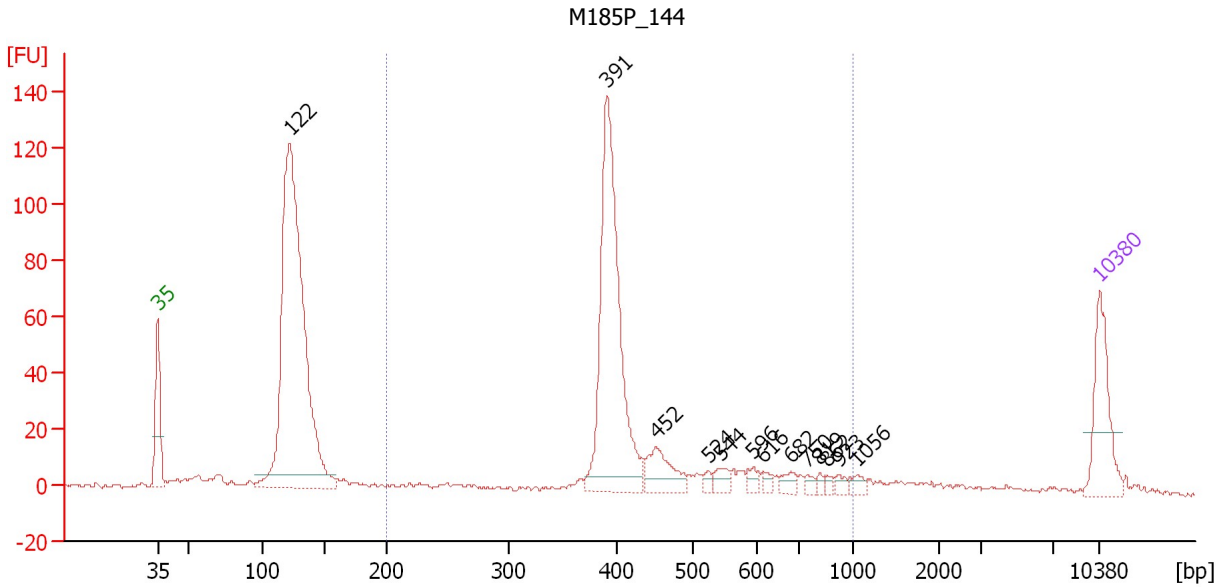
Region table for sample 2 : IxK 2.5h 3 library

| From [bp] | Average Size [bp] | To [bp] | Corr. Area | Molarity [pmol/l] | Co % of Ior Total | Size distribution in CV [%] | Conc. [pg/μl] |
|-----------|-------------------|---------|------------|-------------------|-------------------|-----------------------------|---------------|
| 179 | 380 | 1,747 | 1,565.9 | 6,827.3 | 96 | 46.6 | 1,471.85 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-08-14\2015-08-14_001.xad

Created: 8/14/2015 4:31:26 PM
 Modified: 8/14/2015 4:58:42 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : M185P_144

Number of peaks found: 13 Corr. Area 1: 505.1
 Noise: 0.8

Peak table for sample 3 : M185P_144

| 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 | 122 | 837.66 | 10,377.9 | | 52.81 |
| 3 | 391 | 397.31 | 1,539.1 | | 76.38 |
| 4 | 452 | 54.83 | 183.9 | | 80.05 |
| 5 | 524 | 8.25 | 23.9 | | 83.90 |
| 6 | 544 | 15.98 | 44.5 | | 84.86 |
| 7 | 596 | 11.41 | 29.0 | | 87.29 |
| 8 | 616 | 7.45 | 18.3 | | 87.95 |
| 9 | 682 | 12.79 | 28.4 | | 90.05 |
| 10 | 750 | 7.27 | 14.7 | | 91.29 |
| 11 | 819 | 5.24 | 9.7 | | 92.19 |
| 12 | 862 | 5.00 | 8.8 | | 92.76 |
| 13 | 923 | 7.52 | 12.3 | | 93.57 |
| 14 | 1,056 | 8.96 | 12.9 | | 94.95 |
| 15 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

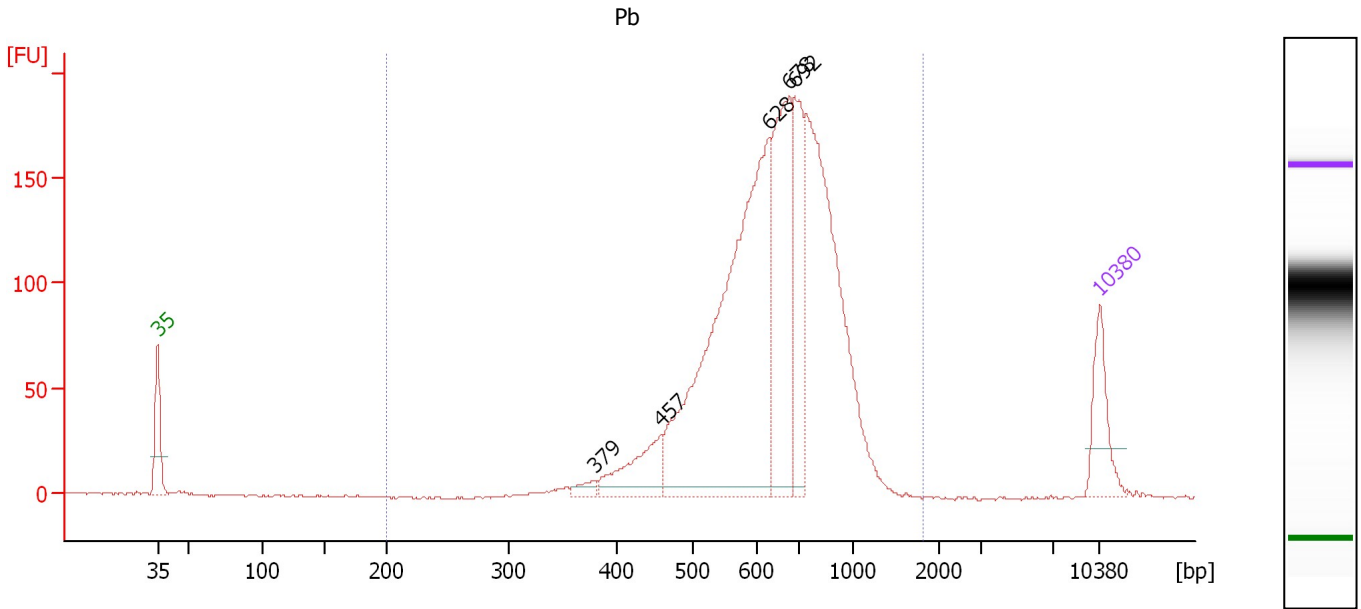
Region table for sample 3 : M185P_144

| From [bp] | Average Size [bp] | To [bp] | Corr. Area | Molarity [pmol/l] | Co % of Ior Total | Size distribution in CV [%] | Conc. [pg/μl] |
|-----------|-------------------|---------|------------|-------------------|-------------------|-----------------------------|---------------|
| 200 | 456 | 1,000 | 505.1 | 2,394.3 | 44 | 30.1 | 651.71 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-08-14\2015-08-14_001.xad

Created: 8/14/2015 4:31:26 PM
 Modified: 8/14/2015 4:58:42 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Pb

Number of peaks found: 5 Corr. Area 1: 2,085.4
 Noise: 0.5

Peak table for sample 4 : Pb

| 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 | 379 | 19.96 | 79.7 | | 75.44 |
| 3 | 457 | 115.07 | 381.2 | | 80.36 |
| 4 | 628 | 850.40 | 2,050.3 | | 88.35 |
| 5 | 678 | 354.63 | 792.9 | | 89.91 |
| 6 | 692 | 181.49 | 397.6 | | 90.35 |
| 7 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

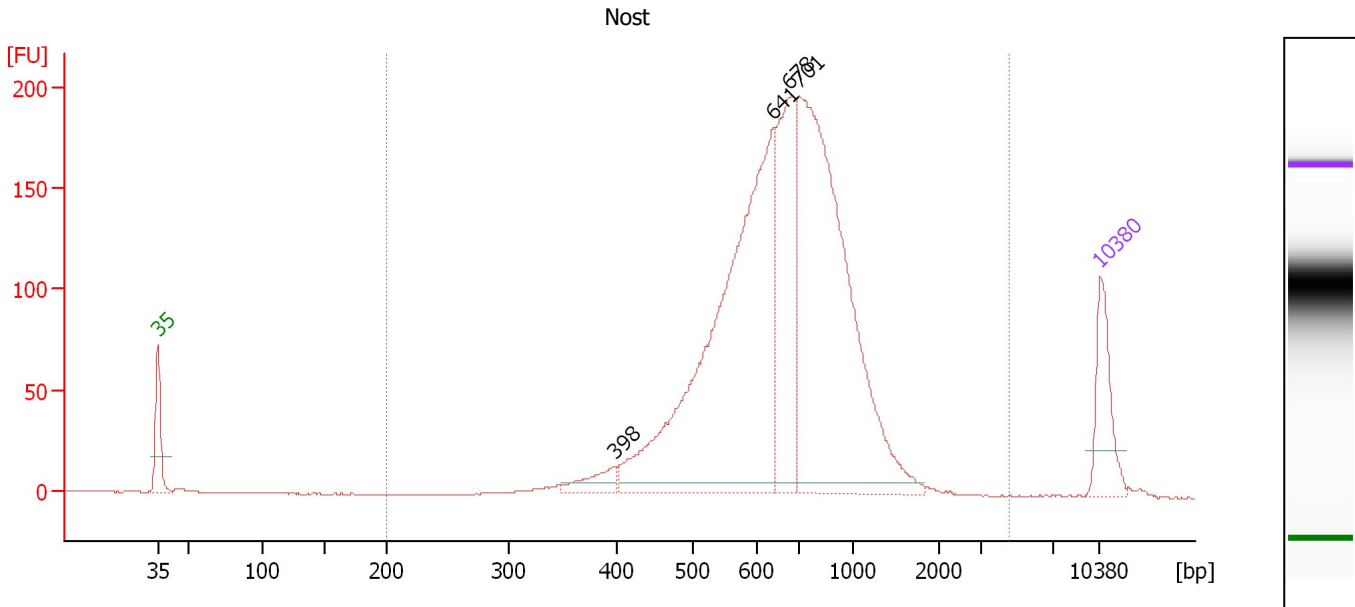
Region table for sample 4 : Pb

| From [bp] | Average Size [bp] | To [bp] | Corr. Area | Molarity [pmol/l] | Co % of lor Total | Size distribution in CV [%] | Conc. [pg/μl] |
|-----------|-------------------|---------|------------|-------------------|-------------------|-----------------------------|---------------|
| 200 | 677 | 1,815 | 2,085.4 | 5,041.8 | 100 | 23.4 | 2,110.98 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-08-14\2015-08-14_001.xad

Created: 8/14/2015 4:31:26 PM
 Modified: 8/14/2015 4:58:42 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Nost

Number of peaks found: 4 Corr. Area 1: 2,441.4
 Noise: 0.2

Peak table for sample 5 : Nost

| 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 | 398 | 37.81 | 144.0 | | 76.93 |
| 3 | 641 | 817.07 | 1,932.5 | | 88.74 |
| 4 | 678 | 284.66 | 635.8 | | 89.93 |
| 5 | 701 | 790.11 | 1,707.7 | | 90.63 |
| 6 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

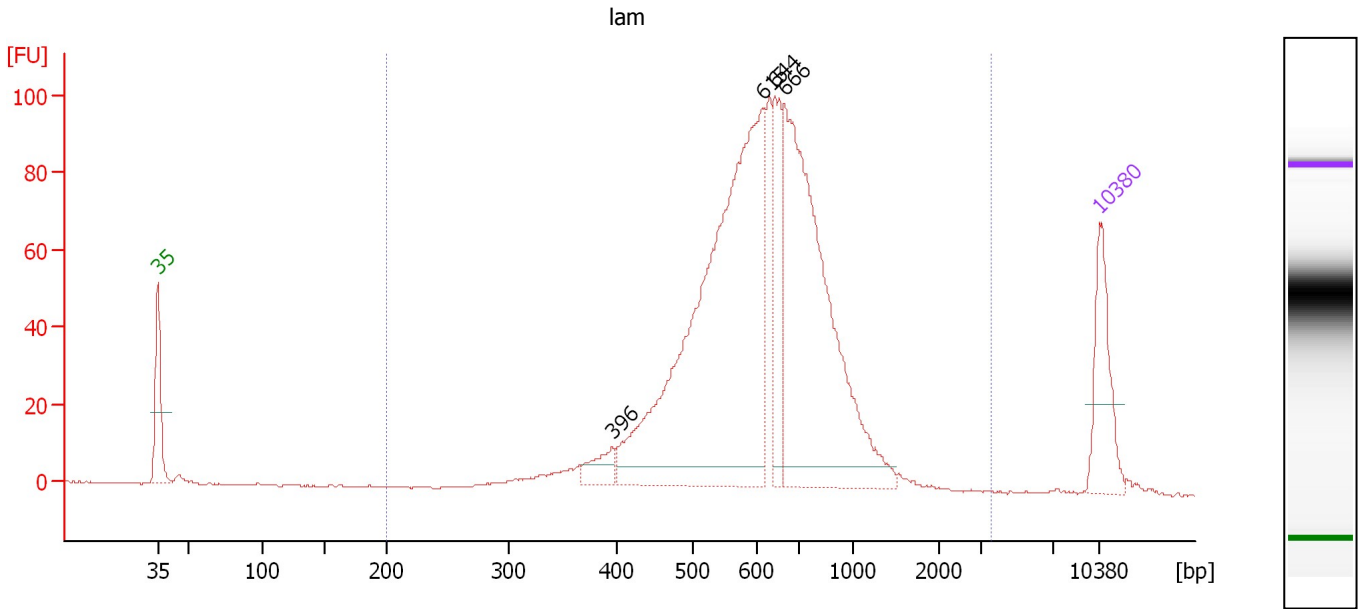
Region table for sample 5 : Nost

| From [bp] | Average Size [bp] | To [bp] | Corr. Area | Molarity [pmol/l] | Co % of Ior Total | Size distribution in CV [%] | Conc. [pg/μl] |
|-----------|-------------------|---------|------------|-------------------|-------------------|-----------------------------|---------------|
| 200 | 725 | 4,494 | 2,441.4 | 4,593.2 | 99 | 35.3 | 1,966.11 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-08-14\2015-08-14_001.xad

Created: 8/14/2015 4:31:26 PM
 Modified: 8/14/2015 4:58:42 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : lam

Number of peaks found: 4 Corr. Area 1: 1,289.3
 Noise: 0.2

Peak table for sample 6 : lam

| 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 | 396 | 31.99 | 122.5 | | 76.74 |
| 3 | 615 | 731.96 | 1,802.4 | | 87.94 |
| 4 | 644 | 106.13 | 249.7 | | 88.84 |
| 5 | 666 | 515.94 | 1,173.3 | | 89.55 |
| 6 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

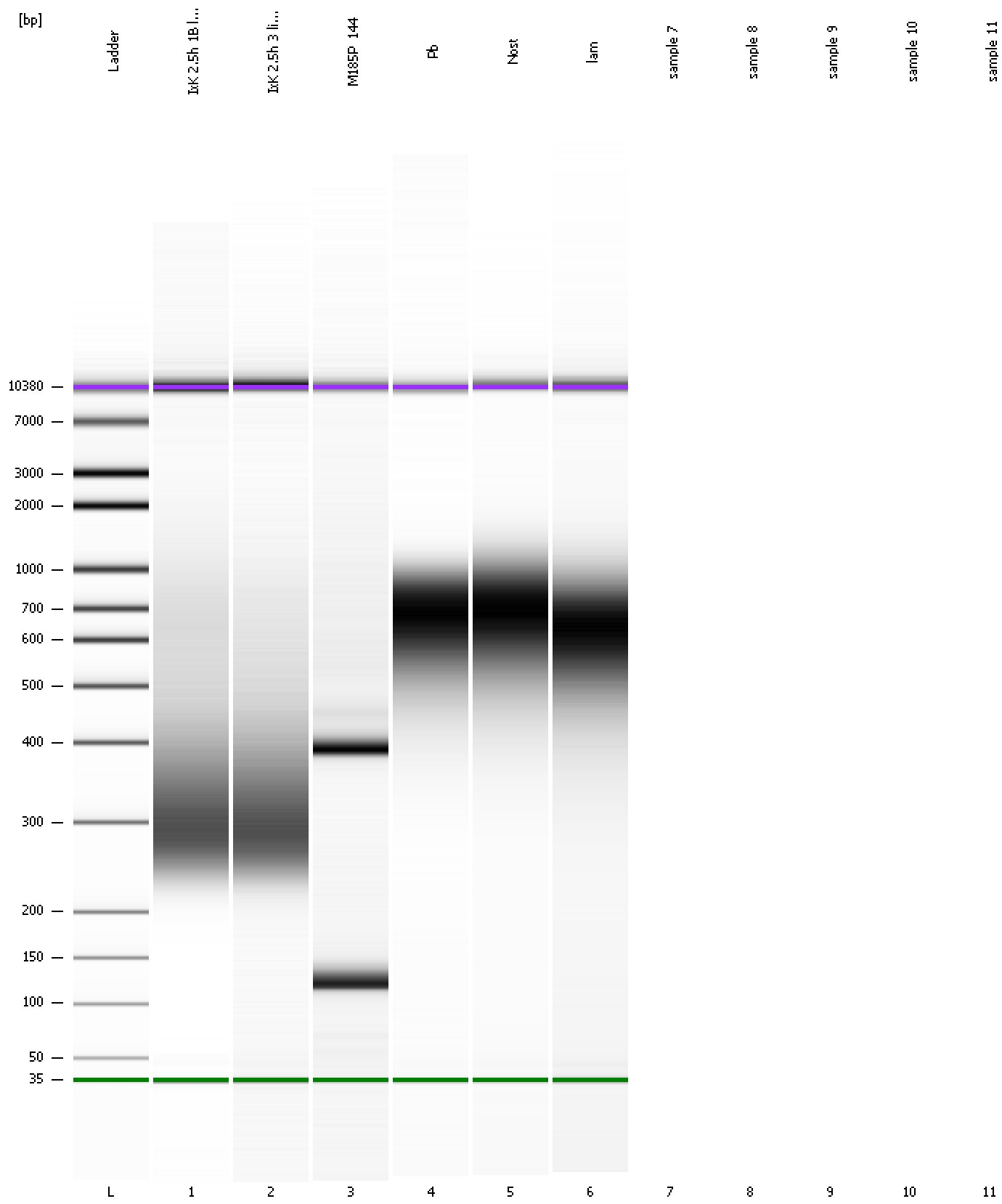
Region table for sample 6 : lam

| From [bp] | Average Size [bp] | To [bp] | Corr. Area | Molarity [pmol/l] | Co % of Ior Total | Size distribution in CV [%] | Conc. [pg/μl] |
|-----------|-------------------|---------|------------|-------------------|-------------------|-----------------------------|---------------|
| 200 | 654 | 3,504 | 1,289.3 | 4,113.0 | 99 | 33.7 | 1,605.94 |

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-08-14\2015-08-14_001.xad

Created: 8/14/2015 4:31:26 PM
Modified: 8/14/2015 4:58:42 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-08-14\2015-08-14_001.xad

Created: 8/14/2015 4:31:26 PM
Modified: 8/14/2015 4:58:42 PM

Invalid Samples

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.