

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-07\2017-11-07_004.xad

Created: 11/7/2017 3:32:21 PM
Modified: 11/7/2017 4:07:56 PM

Electrophoresis File Run Summary

Instrument Information:

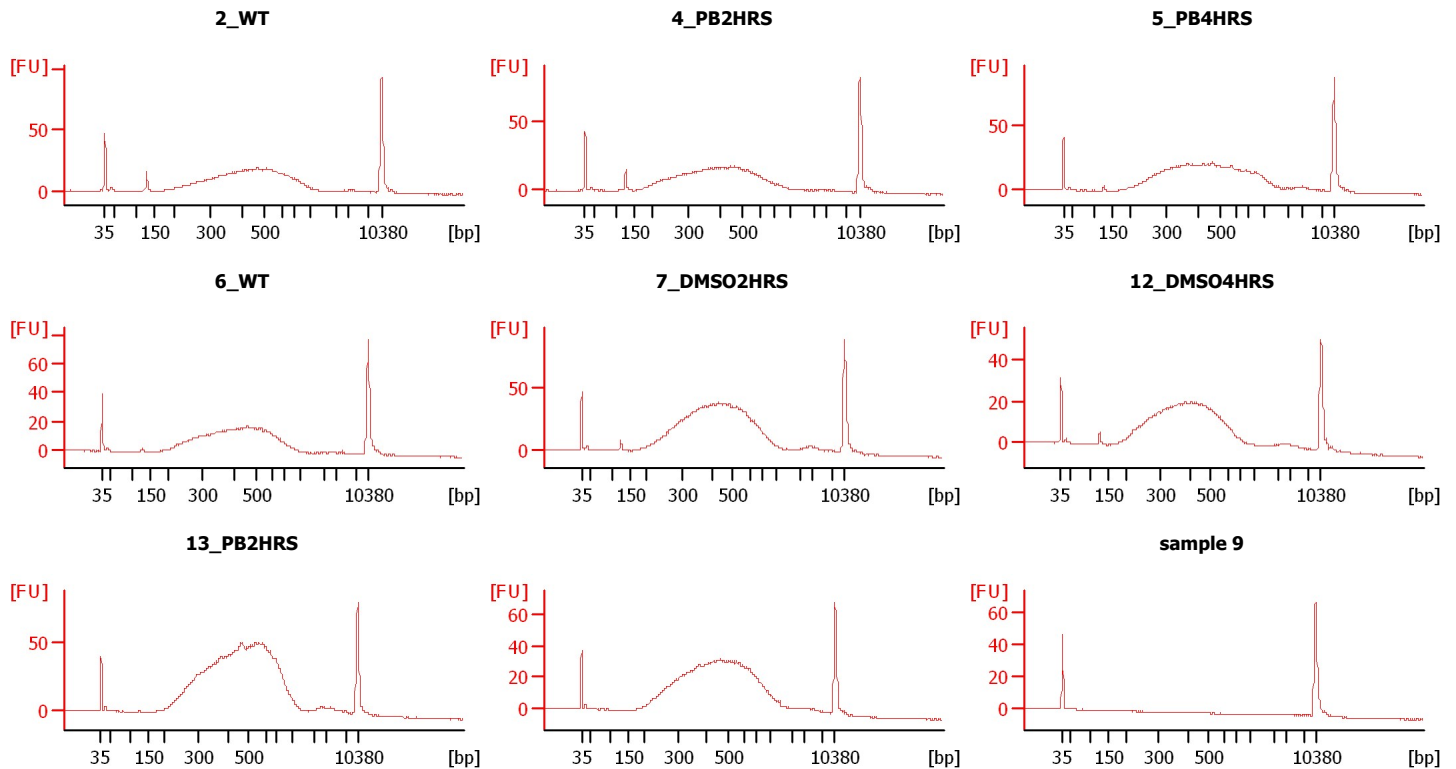
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:



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Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-07\2017-11-07_004.xad

Created: 11/7/2017 3:32:21 PM
Modified: 11/7/2017 4:07:56 PM

Electrophoresis File Run Summary (Chip Summary)

| Sample Name | Sample Comment | Rest. Digest | Status | Observation | Result Label | Result Color |
|-------------------|----------------|--------------------------|--------|--------------------------|--------------|--------------|
| 2_WT | | <input type="checkbox"/> | ✓ | | | |
| 4_PB2HRS | | <input type="checkbox"/> | ✓ | | | |
| 5_PB4HRS | | <input type="checkbox"/> | ✓ | | | |
| 6_WT | | <input type="checkbox"/> | ✓ | | | |
| 7_DMSO2HRS | | <input type="checkbox"/> | ✓ | | | |
| 12_DMSO4HRS | | <input type="checkbox"/> | ✓ | | | |
| 13_PB2HRS | | <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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Modified: 11/7/2017 4:07:56 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

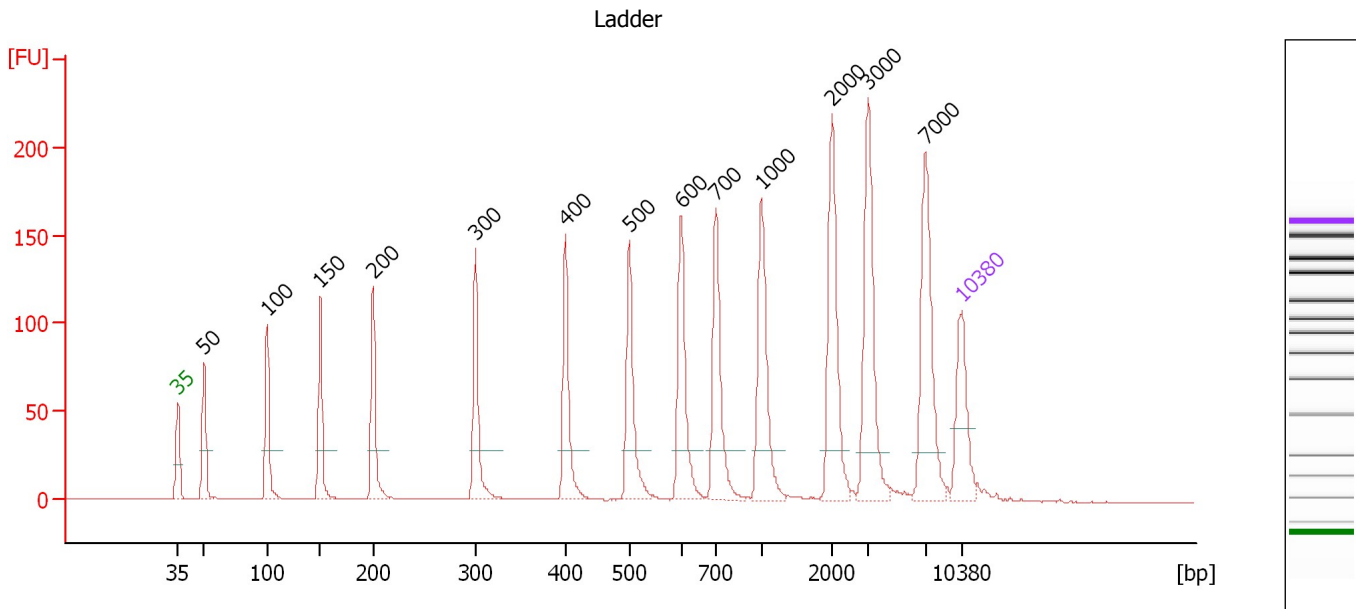
Ladder

| 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 |

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 Modified: 11/7/2017 4:07:56 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

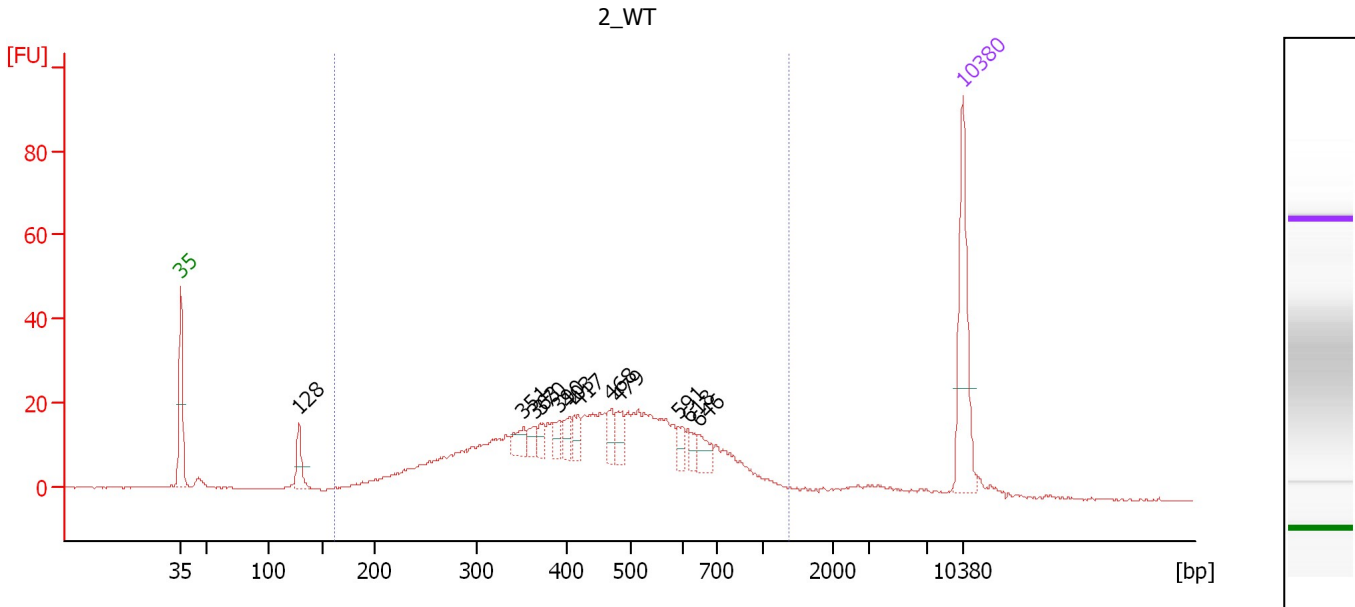
Peak table for Ladder

| 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 | 45.33 |
| 3 | 100 | 150.00 | 2,272.7 | Ladder Peak | 50.95 |
| 4 | 150 | 150.00 | 1,515.2 | Ladder Peak | 55.71 |
| 5 | 200 | 150.00 | 1,136.4 | Ladder Peak | 60.42 |
| 6 | 300 | 150.00 | 757.6 | Ladder Peak | 69.55 |
| 7 | 400 | 150.00 | 568.2 | Ladder Peak | 77.60 |
| 8 | 500 | 150.00 | 454.5 | Ladder Peak | 83.31 |
| 9 | 600 | 150.00 | 378.8 | Ladder Peak | 87.92 |
| 10 | 700 | 150.00 | 324.7 | Ladder Peak | 91.01 |
| 11 | 1,000 | 150.00 | 227.3 | Ladder Peak | 95.11 |
| 12 | 2,000 | 150.00 | 113.6 | Ladder Peak | 101.39 |
| 13 | 3,000 | 150.00 | 75.8 | Ladder Peak | 104.62 |
| 14 | 7,000 | 150.00 | 32.5 | Ladder Peak | 109.72 |
| 15 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

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Created: 11/7/2017 3:32:21 PM
 Modified: 11/7/2017 4:07:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 2_WT

Number of peaks found: 12 Corr. Area 1: 595.2
 Noise: 0.2

Peak table for sample 1 : 2_WT

| 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 | 128 | 30.32 | 359.5 | | 53.59 |
| 3 | 351 | 17.27 | 74.5 | | 73.68 |
| 4 | 363 | 13.17 | 54.9 | | 74.64 |
| 5 | 370 | 9.84 | 40.3 | | 75.21 |
| 6 | 390 | 14.79 | 57.4 | | 76.83 |
| 7 | 403 | 13.49 | 50.7 | | 77.79 |
| 8 | 417 | 17.14 | 62.3 | | 78.55 |
| 9 | 468 | 18.50 | 60.0 | | 81.46 |
| 10 | 479 | 19.15 | 60.5 | | 82.13 |
| 11 | 591 | 12.88 | 33.0 | | 87.52 |
| 12 | 618 | 11.23 | 27.5 | | 88.47 |
| 13 | 646 | 16.81 | 39.5 | | 89.33 |
| 14 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

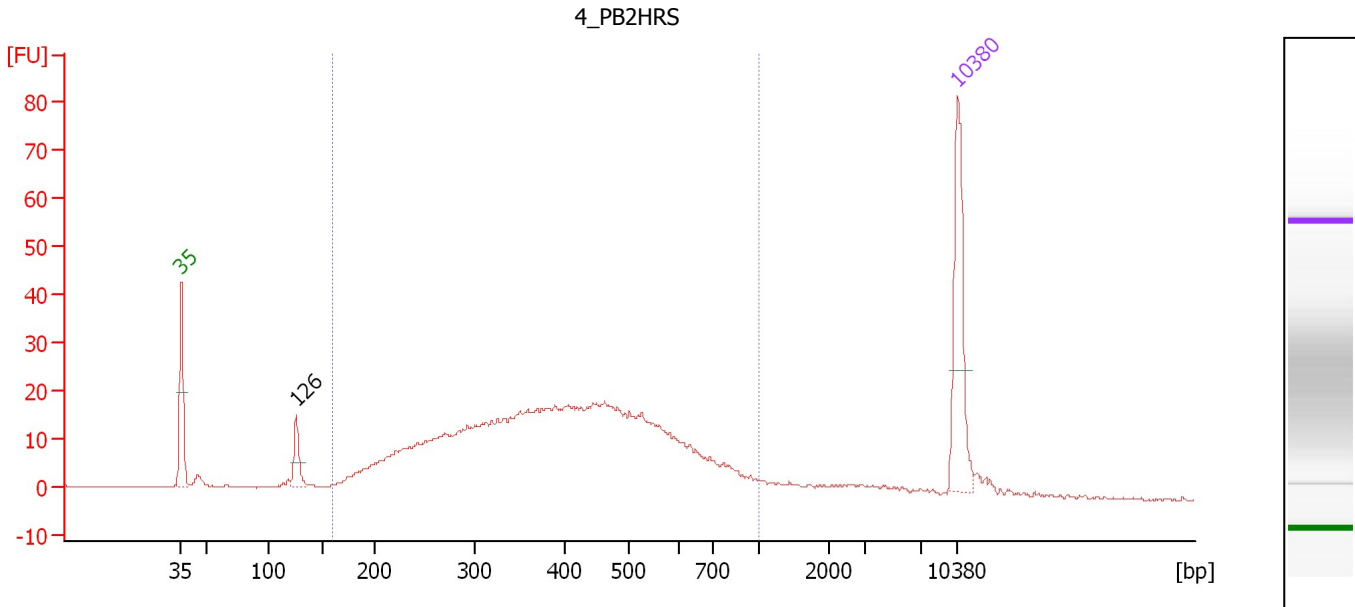
Region table for sample 1 : 2_WT

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. lor [pg/μl] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|----------------------|------------|-----------------------------|
| 161 | 1,382 | 471 | 595.2 | 3,458.4 | 886.97 | 90 | 38.0 |

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Created: 11/7/2017 3:32:21 PM
 Modified: 11/7/2017 4:07:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 4_PB2HRS

Number of peaks found: 1 Corr. Area 1: 600.3
 Noise: 0.2

Peak table for sample 2 : 4_PB2HRS

| 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 | 126 | 31.03 | 374.3 | | 53.38 |
| 3 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

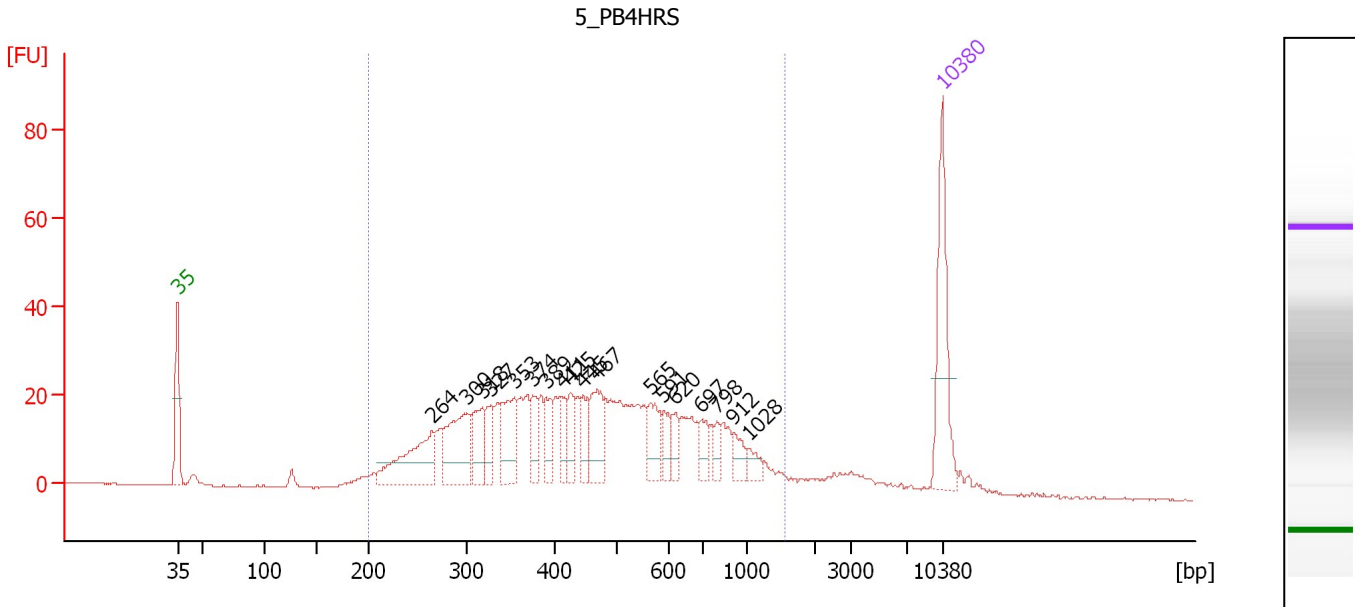
Region table for sample 2 : 4_PB2HRS

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. lor [pg/μl] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|----------------------|------------|-----------------------------|
| 160 | 1,000 | 418 | 600.3 | 4,135.9 | 949.55 | 88 | 35.8 |

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Created: 11/7/2017 3:32:21 PM
 Modified: 11/7/2017 4:07:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 5_PB4HRS

Number of peaks found: 18 Corr. Area 1: 763.7
 Noise: 0.2

Peak table for sample 3 : 5_PB4HRS

| 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 | 264 | 99.55 | 570.8 | | 66.28 |
| 3 | 300 | 89.23 | 450.6 | | 69.56 |
| 4 | 318 | 45.82 | 218.6 | | 70.97 |
| 5 | 327 | 28.20 | 130.5 | | 71.75 |
| 6 | 353 | 58.79 | 252.0 | | 73.85 |
| 7 | 374 | 28.31 | 114.7 | | 75.51 |
| 8 | 389 | 28.40 | 110.5 | | 76.73 |
| 9 | 411 | 22.82 | 84.2 | | 78.20 |
| 10 | 425 | 26.47 | 94.3 | | 79.03 |
| 11 | 445 | 25.37 | 86.4 | | 80.15 |
| 12 | 467 | 48.39 | 157.0 | | 81.42 |
| 13 | 565 | 34.88 | 93.6 | | 86.30 |
| 14 | 591 | 19.20 | 49.2 | | 87.52 |
| 15 | 620 | 16.41 | 40.1 | | 88.54 |
| 16 | 697 | 17.65 | 38.3 | | 90.94 |
| 17 | 798 | 11.65 | 22.1 | | 92.35 |
| 18 | 912 | 14.91 | 24.8 | | 93.91 |
| 19 | 1,028 | 10.41 | 15.3 | | 95.28 |
| 20 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

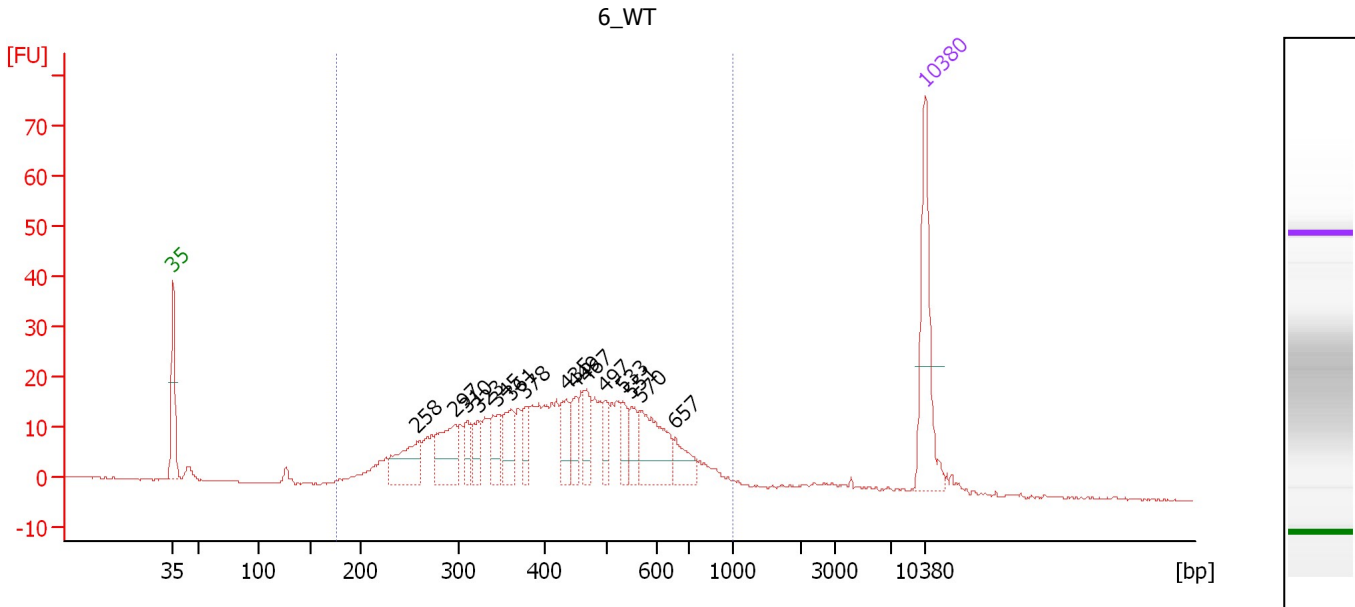
Region table for sample 3 : 5_PB4HRS

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. [pg/μl] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|------------------|------------|-----------------------------|
| 200 | 1,567 | 499 | 763.7 | 4,231.1 | 1,108.10 | 92 | 46.2 |

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 Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-07\2017-11-07_004.xad

Created: 11/7/2017 3:32:21 PM
 Modified: 11/7/2017 4:07:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 6_WT

Number of peaks found: 15 Corr. Area 1: 528.7
 Noise: 0.2

Peak table for sample 4 : 6_WT

| 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 | 258 | 59.86 | 351.5 | | 65.72 |
| 3 | 297 | 60.65 | 309.8 | | 69.24 |
| 4 | 310 | 21.45 | 104.7 | | 70.38 |
| 5 | 323 | 27.12 | 127.3 | | 71.38 |
| 6 | 345 | 27.16 | 119.3 | | 73.16 |
| 7 | 361 | 38.90 | 163.3 | | 74.45 |
| 8 | 378 | 21.49 | 86.2 | | 75.79 |
| 9 | 435 | 29.81 | 103.7 | | 79.61 |
| 10 | 449 | 23.71 | 80.0 | | 80.41 |
| 11 | 467 | 26.63 | 86.5 | | 81.40 |
| 12 | 497 | 20.57 | 62.7 | | 83.13 |
| 13 | 533 | 20.26 | 57.6 | | 84.82 |
| 14 | 551 | 22.70 | 62.4 | | 85.66 |
| 15 | 570 | 65.96 | 175.2 | | 86.56 |
| 16 | 657 | 26.34 | 60.7 | | 89.68 |
| 17 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

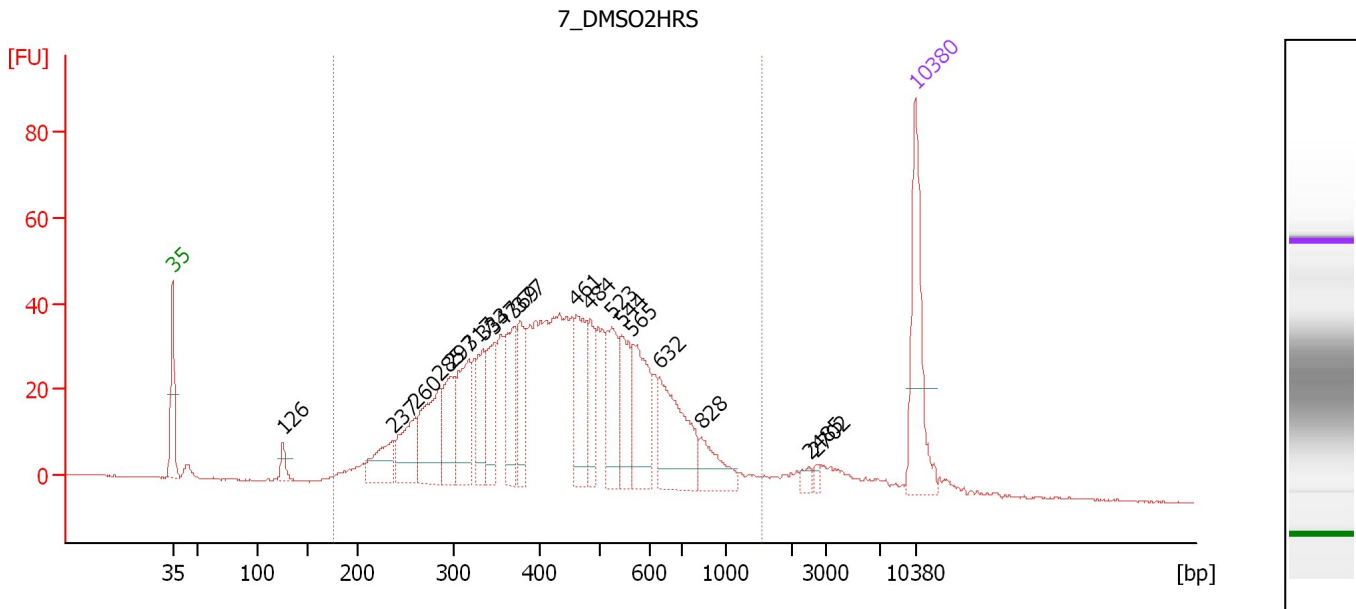
Region table for sample 4 : 6_WT

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. [pg/μl] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|------------------|------------|-----------------------------|
| 176 | 1,000 | 440 | 528.7 | 3,449.2 | 861.17 | 94 | 32.5 |

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Created: 11/7/2017 3:32:21 PM
 Modified: 11/7/2017 4:07:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 7 DMSO2HRS

Number of peaks found: 19 Corr. Area 1: 1,177.8
 Noise: 0.2

Peak table for sample 5 : 7 DMSO2HRS

| 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 | 126 | 14.13 | 170.4 | | 53.39 |
| 3 | 237 | 46.57 | 297.8 | | 63.79 |
| 4 | 260 | 55.32 | 322.4 | | 65.90 |
| 5 | 285 | 86.36 | 458.7 | | 68.21 |
| 6 | 297 | 59.40 | 303.2 | | 69.26 |
| 7 | 317 | 76.40 | 365.2 | | 70.92 |
| 8 | 333 | 52.33 | 237.9 | | 72.23 |
| 9 | 347 | 53.84 | 235.1 | | 73.33 |
| 10 | 369 | 65.94 | 270.9 | | 75.09 |
| 11 | 377 | 54.76 | 220.1 | | 75.74 |
| 12 | 461 | 72.71 | 239.1 | | 81.06 |
| 13 | 484 | 35.91 | 112.5 | | 82.37 |
| 14 | 523 | 63.06 | 182.6 | | 84.38 |
| 15 | 544 | 50.93 | 141.9 | | 85.33 |
| 16 | 565 | 76.08 | 204.2 | | 86.29 |
| 17 | 632 | 90.75 | 217.7 | | 88.90 |
| 18 | 828 | 33.35 | 61.0 | | 92.76 |
| 19 | 2,485 | 5.66 | 3.5 | | 102.96 |
| 20 | 2,702 | 3.75 | 2.1 | | 103.66 |
| 21 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

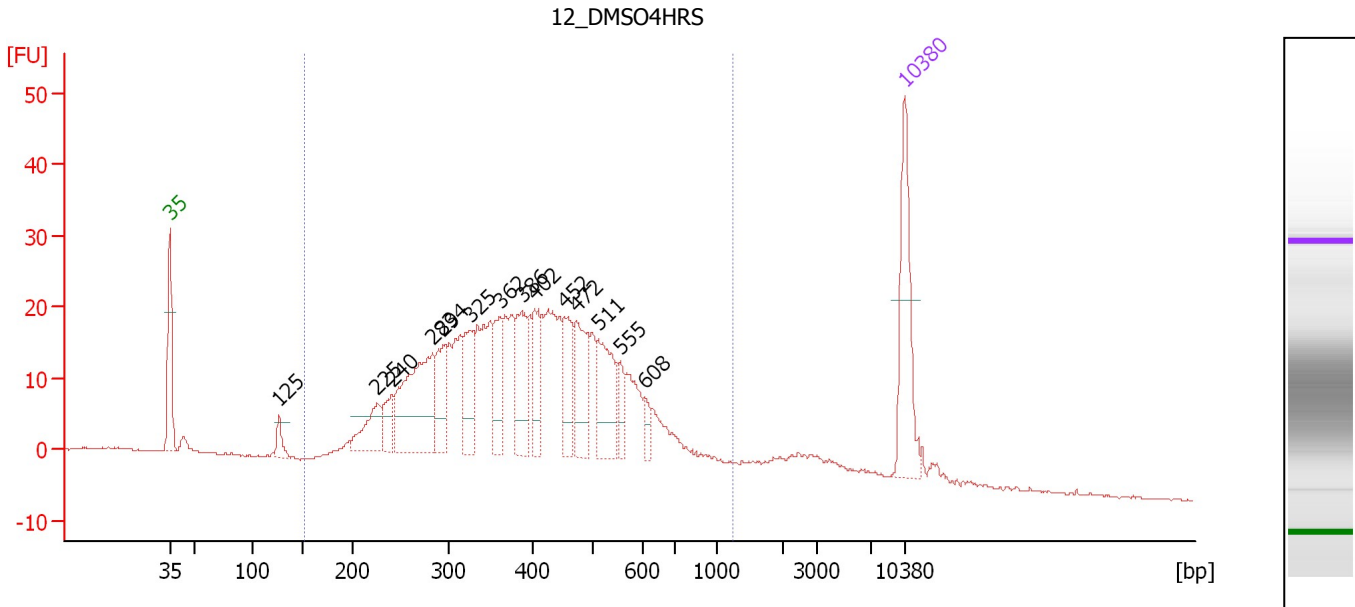
Region table for sample 5 : 7 DMSO2HRS

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. [pg/μl] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|------------------|------------|-----------------------------|
| 176 | 1,528 | 459 | 1,177.8 | 5,597.1 | 1,431.36 | 93 | 38.4 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-07\2017-11-07_004.xad

Created: 11/7/2017 3:32:21 PM
 Modified: 11/7/2017 4:07:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 12_DMSO4HRS

Number of peaks found: 14 Corr. Area 1: 665.1
 Noise: 0.2

Peak table for sample 6 : 12_DMSO4HRS

| 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 | 125 | 19.39 | 234.4 | | 53.36 |
| 3 | 225 | 48.24 | 324.2 | | 62.75 |
| 4 | 240 | 29.86 | 188.1 | | 64.12 |
| 5 | 283 | 151.13 | 808.3 | | 68.03 |
| 6 | 294 | 53.08 | 273.7 | | 68.99 |
| 7 | 325 | 54.57 | 254.3 | | 71.58 |
| 8 | 362 | 47.26 | 197.9 | | 74.52 |
| 9 | 386 | 65.78 | 257.9 | | 76.50 |
| 10 | 402 | 48.38 | 182.2 | | 77.72 |
| 11 | 452 | 45.16 | 151.4 | | 80.56 |
| 12 | 472 | 55.37 | 177.9 | | 81.68 |
| 13 | 511 | 67.37 | 199.8 | | 83.81 |
| 14 | 555 | 20.82 | 56.8 | | 85.84 |
| 15 | 608 | 11.33 | 28.2 | | 88.18 |
| 16 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

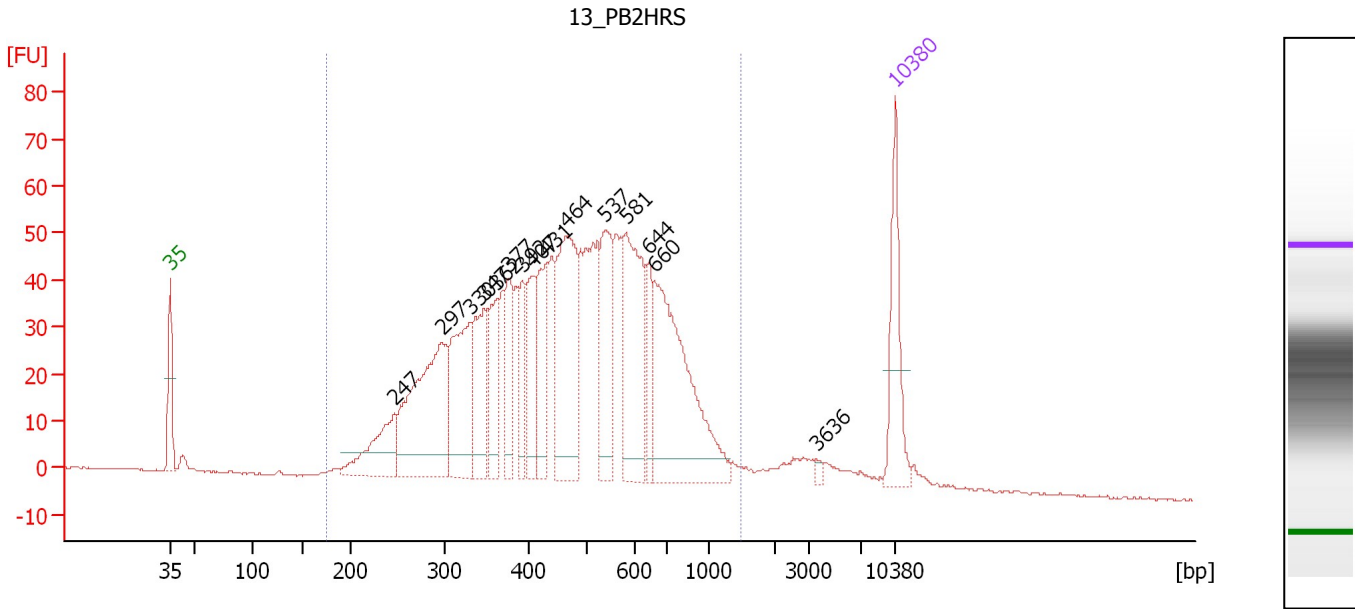
Region table for sample 6 : 12_DMSO4HRS

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. lor [pg/μl] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|----------------------|------------|-----------------------------|
| 151 | 1,231 | 417 | 665.1 | 6,064.1 | 1,428.97 | 90 | 35.0 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-07\2017-11-07_004.xad

Created: 11/7/2017 3:32:21 PM
 Modified: 11/7/2017 4:07:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 13_PB2HRS

Number of peaks found: 15 Corr. Area 1: 1,506.8
 Noise: 0.2

Peak table for sample 7 : 13_PB2HRS

| 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 | 247 | 102.18 | 628.0 | | 64.67 |
| 3 | 297 | 267.45 | 1,365.9 | | 69.25 |
| 4 | 330 | 166.48 | 764.0 | | 71.98 |
| 5 | 347 | 107.75 | 470.8 | | 73.32 |
| 6 | 362 | 78.45 | 328.2 | | 74.55 |
| 7 | 377 | 75.63 | 304.1 | | 75.74 |
| 8 | 392 | 56.12 | 216.8 | | 76.97 |
| 9 | 407 | 78.16 | 290.9 | | 78.00 |
| 10 | 431 | 93.63 | 329.5 | | 79.34 |
| 11 | 464 | 213.33 | 696.8 | | 81.24 |
| 12 | 537 | 116.89 | 330.0 | | 85.00 |
| 13 | 581 | 170.25 | 443.7 | | 87.06 |
| 14 | 644 | 47.98 | 112.9 | | 89.27 |
| 15 | 660 | 268.95 | 617.1 | | 89.79 |
| 16 | 3,636 | 5.30 | 2.2 | | 105.43 |
| 17 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

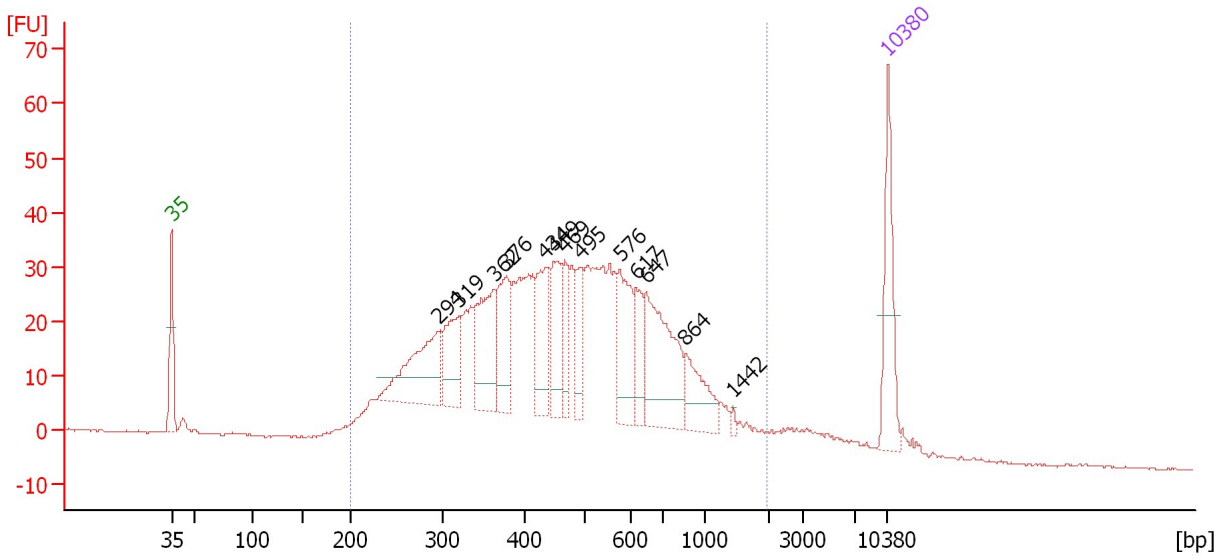
Region table for sample 7 : 13_PB2HRS

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. [pg/μl] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|------------------|------------|-----------------------------|
| 175 | 1,480 | 493 | 1,506.8 | 8,630.6 | 2,346.67 | 95 | 37.4 |

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Created: 11/7/2017 3:32:21 PM
 Modified: 11/7/2017 4:07:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 :

Number of peaks found: 13 Corr. Area 1: 1,083.2
 Noise: 0.2

Peak table for sample 8 :

| 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 | 294 | 142.01 | 731.8 | | 69.01 |
| 3 | 319 | 82.20 | 390.2 | | 71.09 |
| 4 | 362 | 112.27 | 470.0 | | 74.53 |
| 5 | 376 | 85.59 | 344.7 | | 75.68 |
| 6 | 434 | 88.40 | 308.6 | | 79.54 |
| 7 | 449 | 72.20 | 243.8 | | 80.37 |
| 8 | 469 | 47.51 | 153.6 | | 81.52 |
| 9 | 495 | 49.02 | 150.0 | | 83.03 |
| 10 | 576 | 85.08 | 223.6 | | 86.83 |
| 11 | 617 | 47.39 | 116.4 | | 88.45 |
| 12 | 647 | 148.15 | 346.7 | | 89.39 |
| 13 | 864 | 58.46 | 102.6 | | 93.25 |
| 14 | 1,442 | 4.00 | 4.2 | | 97.88 |
| 15 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

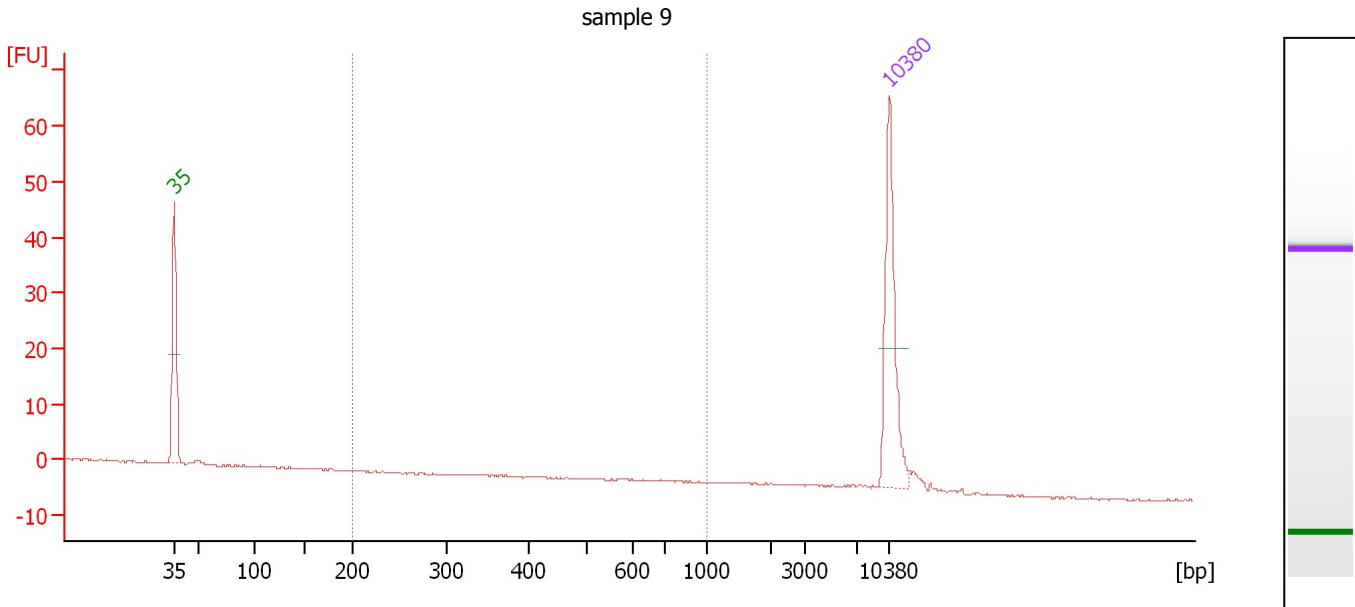
Region table for sample 8 :

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. lor [pg/μl] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|----------------------|------------|-----------------------------|
| 200 | 1,962 | 520 | 1,083.2 | 7,673.2 | 2,072.95 | 93 | 50.8 |

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Created: 11/7/2017 3:32:21 PM
 Modified: 11/7/2017 4:07:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : sample 9

Number of peaks found: 0 Corr. Area 1: 0.9
 Noise: 0.1

Peak table for sample 9 : sample 9

| 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 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

Region table for sample 9 : sample 9

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. lor [pg/μl] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|----------------------|------------|-----------------------------|
| 200 | 1,000 | 714 | 0.9 | 3.0 | 1.38 | 8 | 17.8 |

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Created: 11/7/2017 3:32:21 PM
Modified: 11/7/2017 4:07:56 PM

Gel Image

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Created: 11/7/2017 3:32:21 PM
Modified: 11/7/2017 4:07:56 PM

Invalid Samples

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.