

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ts and Settings\Bioanalyzer\2014-11-07\2014-11-07_001_2.xad

Created: 11/7/2014 11:13:07 AM
Modified: 11/7/2014 12:12:46 PM

Electrophoresis File Run Summary

Instrument Information:

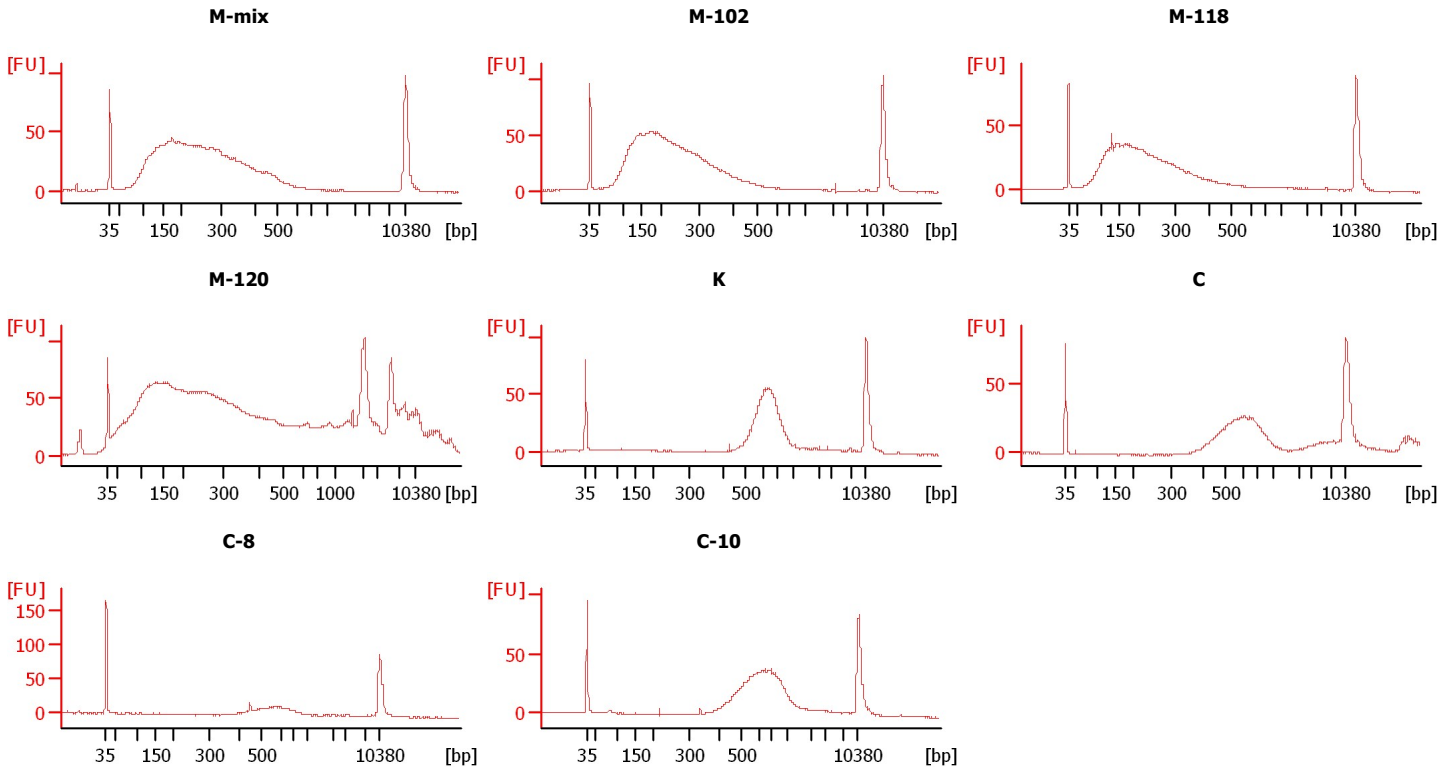
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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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Electrophoresis File Run Summary (Chip Summary)

| Sample Name | Sample Comment | Rest. Digest | Status | Observation | Result Label | Result Color |
|-------------|----------------|--------------------------|--------|-------------|--------------|--------------|
| M-mix | | <input type="checkbox"/> | ✓ | | | |
| M-102 | | <input type="checkbox"/> | ✓ | | | |
| M-118 | | <input type="checkbox"/> | ✓ | | | |
| M-120 | | <input type="checkbox"/> | ✓ | | | |
| K | | <input type="checkbox"/> | ✓ | | | |
| C | | <input type="checkbox"/> | ✓ | | | |
| C-8 | | <input type="checkbox"/> | ✓ | | | |
| C-10 | | <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

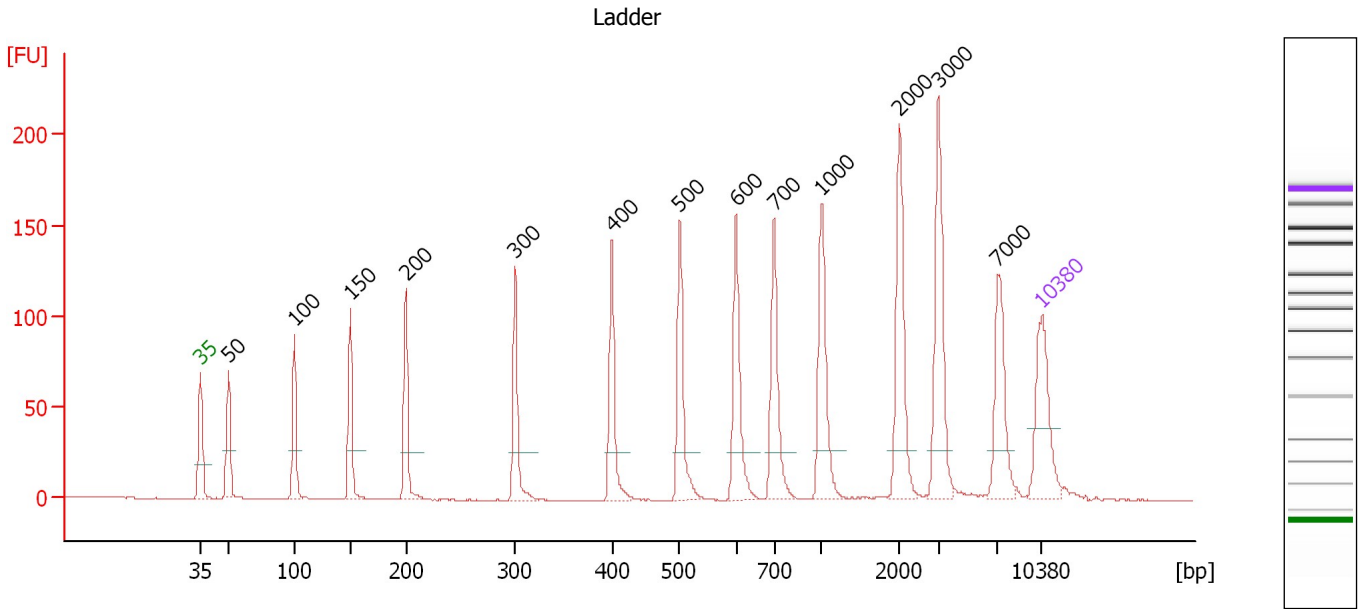
Ladder

| 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

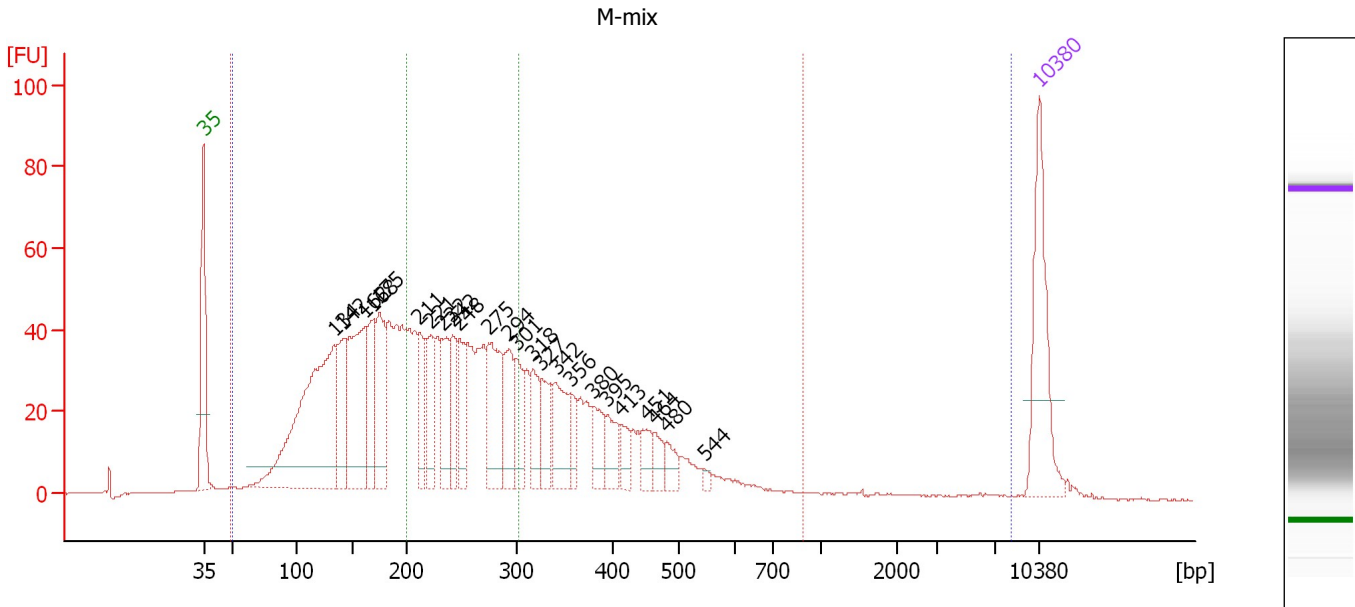
Peak table for Ladder

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 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 |

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Electropherogram Summary Continued ...



Overall Results for sample 1 : M-mix

| | | | |
|------------------------|---------|---------------|---------|
| Number of peaks found: | 24 | Corr. Area 2: | 1,731.6 |
| Noise: | 0.2 | Corr. Area 3: | 567.9 |
| Corr. Area 1: | 1,717.3 | | |

Peak table for sample 1 : M-mix

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 134 | 327.23 | 3,709.0 | |
| 3 | 142 | 72.75 | 777.2 | |
| 4 | 162 | 155.63 | 1,459.2 | |
| 5 | 168 | 66.31 | 596.7 | |
| 6 | 175 | 88.30 | 765.9 | |
| 7 | 211 | 49.71 | 356.7 | |
| 8 | 221 | 47.93 | 328.6 | |
| 9 | 232 | 52.59 | 343.1 | |
| 10 | 242 | 45.11 | 282.3 | |
| 11 | 248 | 46.56 | 284.5 | |
| 12 | 275 | 88.24 | 486.1 | |
| 13 | 294 | 53.54 | 275.8 | |
| 14 | 301 | 43.77 | 220.2 | |
| 15 | 318 | 38.45 | 183.0 | |
| 16 | 327 | 33.53 | 155.6 | |
| 17 | 342 | 53.75 | 238.4 | |
| 18 | 356 | 21.06 | 89.5 | |
| 19 | 380 | 29.08 | 115.9 | |
| 20 | 395 | 26.58 | 101.9 | |
| 21 | 413 | 18.19 | 66.7 | |
| 22 | 451 | 19.12 | 64.2 | |
| 23 | 464 | 15.99 | 52.3 | |
| 24 | 480 | 15.24 | 48.1 | |
| 25 | 544 | 3.43 | 9.5 | |

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Electropherogram Summary Continued ...

... Peak table for sample 1 : M-mix

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 26 | 10,380 | 75.00 | 10.9 | Upper Marker |

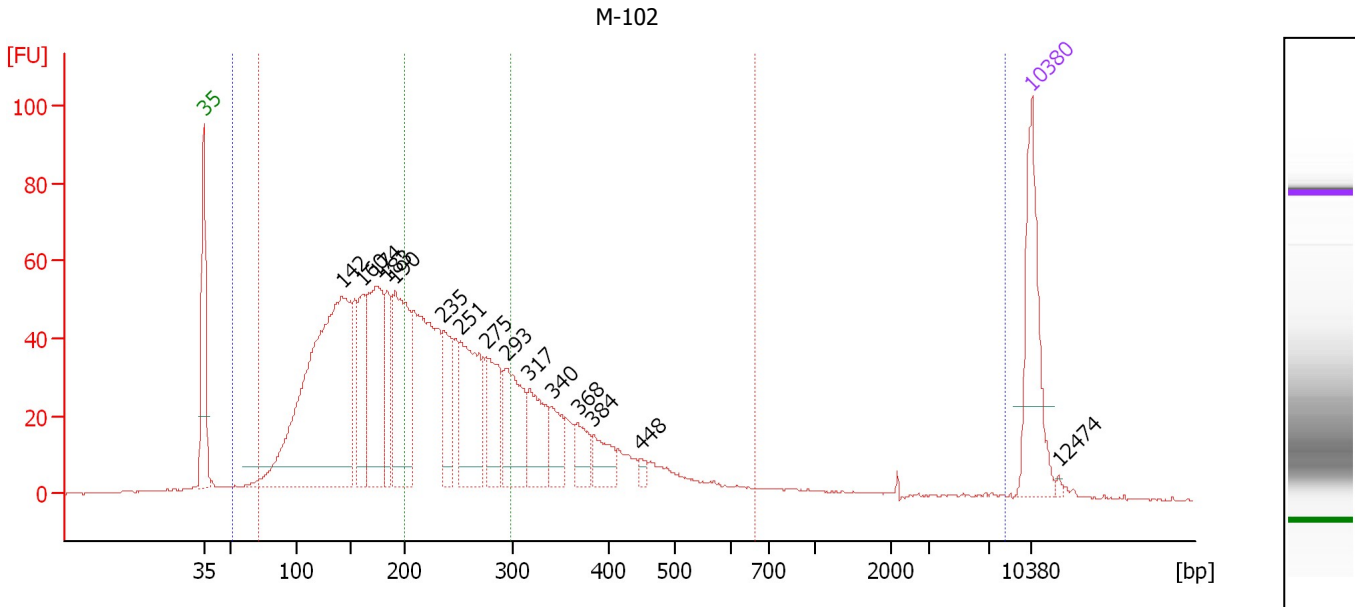
Region table for sample 1 : M-mix

| From [bp] | Average Size [bp] | To [bp] | Corr. Area | % of Total | Size distribution in CV [%] | Conc. [pg/μl] | Molarity [pmol/l] | Color |
|-----------|-------------------|---------|------------|------------|-----------------------------|---------------|-------------------|---|
| 49 | 261 | 886 | 1,717.3 | 98 | 45.4 | 2,098.76 | 16,599.6 |  |
| 51 | 298 | 8,182 | 1,731.6 | 99 | 100.0 | 2,109.37 | 16,575.9 |  |
| 199 | 249 | 303 | 567.9 | 32 | 12.0 | 674.91 | 4,109.9 |  |

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Electropherogram Summary Continued ...



Overall Results for sample 2 : M-102

Number of peaks found: 15 Corr. Area 2: 1,799.3
 Noise: 0.2 Corr. Area 3: 1,838.9
 Corr. Area 1: 575.7

Peak table for sample 2 : M-102

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 142 | 519.25 | 5,559.7 | |
| 3 | 160 | 85.80 | 810.0 | |
| 4 | 174 | 168.34 | 1,464.5 | |
| 5 | 183 | 61.40 | 508.5 | |
| 6 | 190 | 168.32 | 1,340.3 | |
| 7 | 235 | 67.32 | 433.6 | |
| 8 | 251 | 120.70 | 728.3 | |
| 9 | 275 | 68.17 | 375.1 | |
| 10 | 293 | 88.03 | 454.9 | |
| 11 | 317 | 61.52 | 294.1 | |
| 12 | 340 | 33.70 | 150.0 | |
| 13 | 368 | 27.15 | 111.9 | |
| 14 | 384 | 29.04 | 114.6 | |
| 15 | 448 | 5.62 | 19.0 | |
| 16 | 10,380 | 75.00 | 10.9 | Upper Marker |
| 17 | 12,474 | 0.00 | 0.0 | |

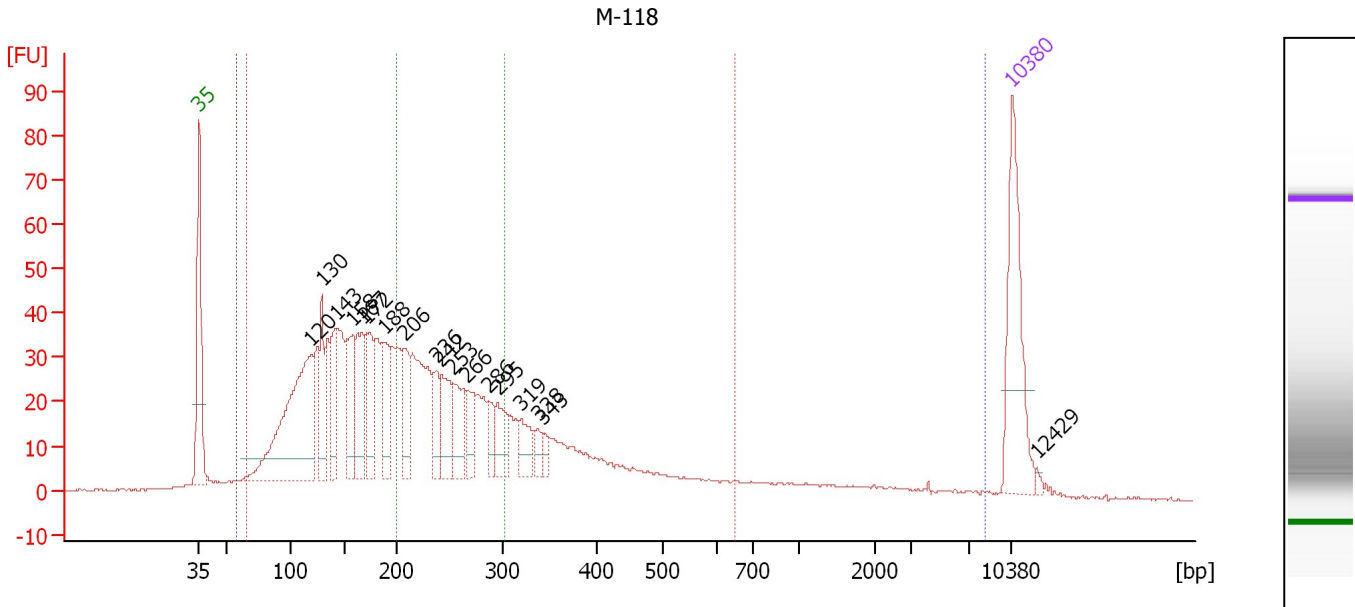
Region table for sample 2 : M-102

| From [bp] | Average Size [bp] | To [bp] | Corr. Area | % of Total | Size distribution in CV [%] | Conc. [pg/μl] | Molarity [pmol/l] | Color |
|-----------|-------------------|---------|------------|------------|-----------------------------|---------------|-------------------|-------|
| 51 | 280 | 8,312 | 1,838.9 | 98 | 100.0 | 2,098.04 | 17,545.4 | Blue |
| 70 | 236 | 665 | 1,799.3 | 96 | 43.5 | 2,061.34 | 17,128.2 | Red |
| 200 | 245 | 298 | 575.7 | 31 | 11.6 | 630.44 | 3,897.4 | Green |

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Electropherogram Summary Continued ...



Overall Results for sample 3 : M-118

Number of peaks found: 18 Corr. Area 2: 1,313.7
 Noise: 0.3 Corr. Area 3: 1,254.1
 Corr. Area 1: 381.2

Peak table for sample 3 : M-118

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 120 | 233.32 | 2,952.5 | |
| 3 | 130 | 56.25 | 657.6 | |
| 4 | 143 | 57.94 | 612.2 | |
| 5 | 158 | 64.81 | 622.4 | |
| 6 | 167 | 64.06 | 582.1 | |
| 7 | 172 | 59.07 | 521.2 | |
| 8 | 188 | 55.61 | 449.0 | |
| 9 | 206 | 41.07 | 301.9 | |
| 10 | 236 | 31.01 | 198.7 | |
| 11 | 242 | 47.19 | 296.1 | |
| 12 | 253 | 42.14 | 252.2 | |
| 13 | 266 | 28.39 | 161.6 | |
| 14 | 286 | 18.03 | 95.4 | |
| 15 | 295 | 29.92 | 153.7 | |
| 16 | 319 | 24.28 | 115.4 | |
| 17 | 338 | 9.83 | 44.1 | |
| 18 | 343 | 8.80 | 38.9 | |
| 19 | 10,380 | 75.00 | 10.9 | Upper Marker |
| 20 | 12,429 | 0.00 | 0.0 | |



Region table for sample 3 : M-118

| From [bp] | Average Size [bp] | To [bp] | Corr. Area | % of Total | Size distribution in CV [%] | Conc. [pg/μl] | Molarity [pmol/l] | Color |
|-----------|-------------------|---------|------------|------------|-----------------------------|---------------|-------------------|-------|
| 57 | 358 | 8,171 | 1,313.7 | 97 | 100.0 | 1,697.58 | 14,681.4 | Blue |

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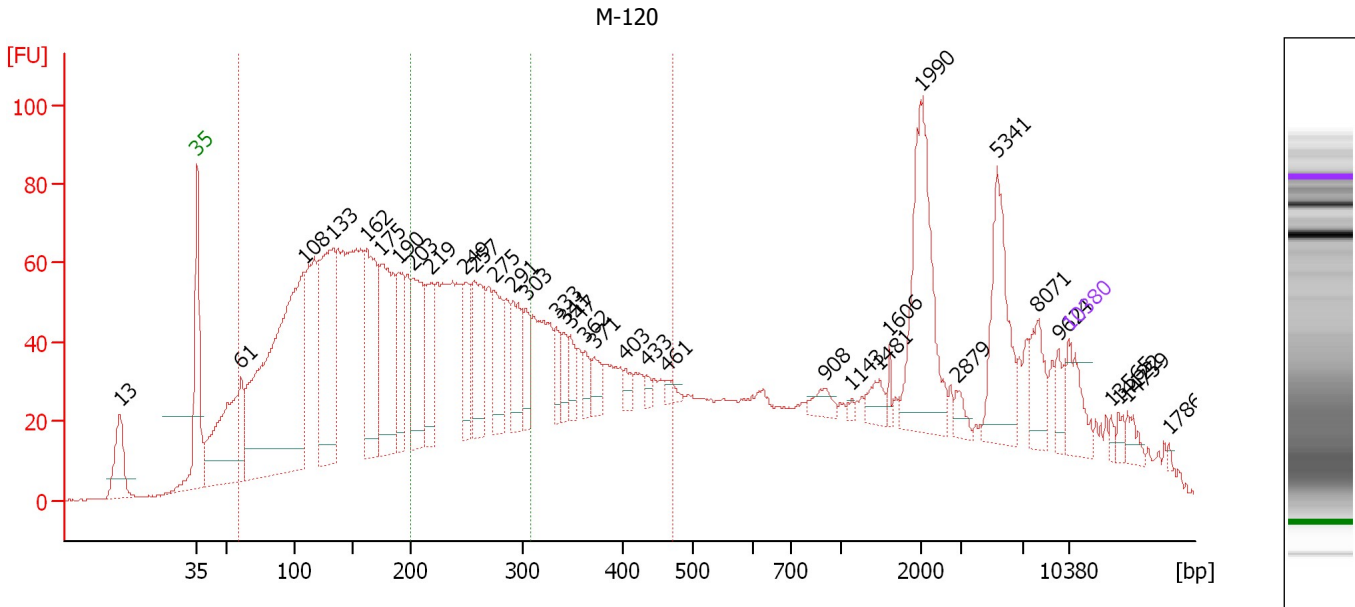
Electropherogram Summary Continued ...**... Region table for sample 3 : M-118**

| From [bp] | Average Size [bp] | To [bp] | Corr. Area | % of Total | Size distribution in CV [%] | Conc. [pg/μl] | Molarity [pmol/l] | Color |
|------------------|--------------------------|----------------|-------------------|-------------------|------------------------------------|-------------------------------------|--------------------------|---|
| 66 | 232 | 652 | 1,254.1 | 93 | 47.4 | 1,643.30 | 14,405.5 |  |
| 200 | 246 | 302 | 381.2 | 28 | 12.0 | 472.90 | 2,916.6 |  |

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Electropherogram Summary Continued ...



Overall Results for sample 4 : M-120

Number of peaks found: 35 Corr. Area 1: 2,903.3
 Noise: 0.2 Corr. Area 2: 839.6

Peak table for sample 4 : M-120

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 13 | 0.00 | 0.0 | |
| 2 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 3 | 61 | 544.73 | 13,521.7 | |
| 4 | 108 | 1,393.08 | 19,514.0 | |
| 5 | 133 | 599.66 | 6,808.0 | |
| 6 | 162 | 398.86 | 3,728.5 | |
| 7 | 175 | 415.90 | 3,599.1 | |
| 8 | 190 | 201.81 | 1,605.9 | |
| 9 | 203 | 257.19 | 1,919.8 | |
| 10 | 219 | 189.66 | 1,312.2 | |
| 11 | 249 | 150.46 | 915.0 | |
| 12 | 257 | 220.60 | 1,299.7 | |
| 13 | 275 | 146.55 | 807.3 | |
| 14 | 291 | 146.47 | 762.4 | |
| 15 | 303 | 86.35 | 431.5 | |
| 16 | 333 | 55.58 | 253.0 | |
| 17 | 341 | 51.51 | 229.0 | |
| 18 | 347 | 52.66 | 230.1 | |
| 19 | 362 | 37.86 | 158.4 | |
| 20 | 371 | 49.16 | 200.7 | |
| 21 | 403 | 26.22 | 98.6 | |
| 22 | 433 | 14.81 | 51.8 | |
| 23 | 461 | 20.75 | 68.1 | |
| 24 | 908 | 33.10 | 55.3 | |
| 25 | 1,143 | 7.36 | 9.8 | |
| 26 | 1,481 | 36.20 | 37.0 | |

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Electropherogram Summary Continued ...

... Peak table for sample 4 : M-120

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 27 | 1,606 | 13.74 | 13.0 | |
| 28 | 1,990 | 306.51 | 233.4 | |
| 29 | 2,879 | 23.52 | 12.4 | |
| 30 | 5,341 | 197.70 | 56.1 | |
| 31 | 8,071 | 73.81 | 13.9 | |
| 32 | 9,624 | 32.21 | 5.1 | |
| 33 | 10,380 | 75.00 | 10.9 | Upper Marker |
| 34 | 13,565 | 0.00 | 0.0 | |
| 35 | 14,122 | 0.00 | 0.0 | |
| 36 | 14,759 | 0.00 | 0.0 | |
| 37 | 17,864 | 0.00 | 0.0 | |

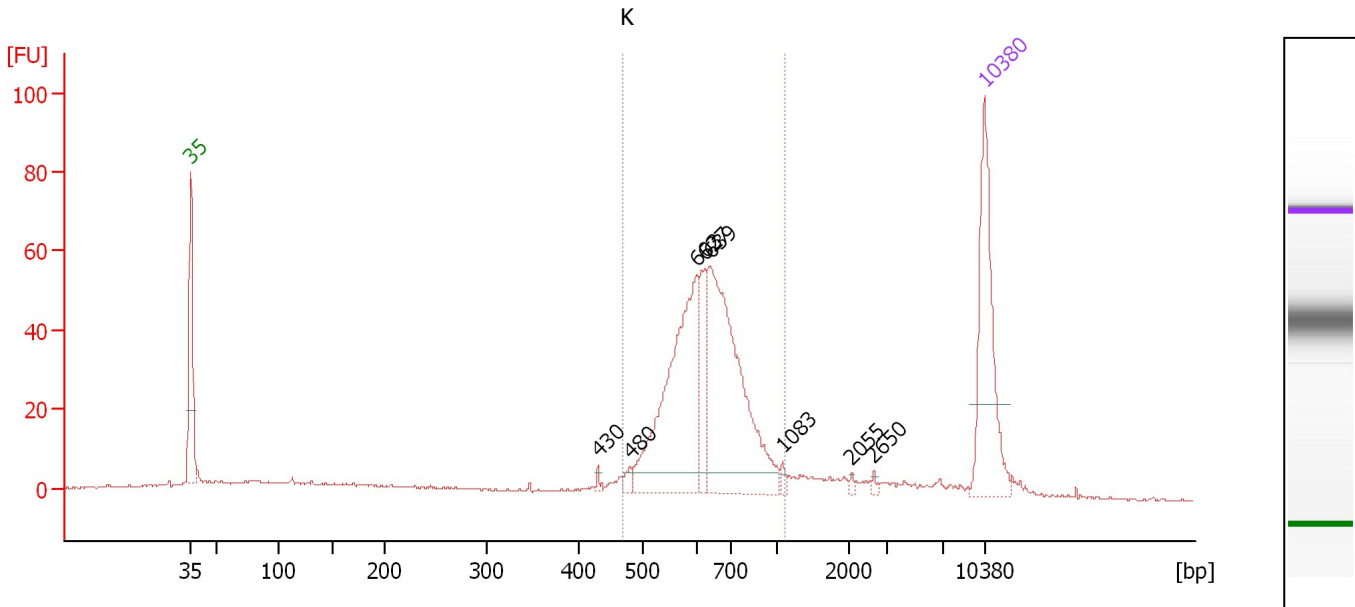
Region table for sample 4 : M-120

| From [bp] | Average Size [bp] | To [bp] | Corr. Area | % of Total | Size distribution in CV [%] | Conc. [pg/μl] | Molarity [pmol/l] | Color |
|-----------|-------------------|---------|------------|------------|-----------------------------|---------------|-------------------|---|
| 59 | 230 | 472 | 2,903.3 | 68 | 45.4 | 9,610.00 | 91,029.5 |  |
| 201 | 252 | 307 | 839.6 | 20 | 12.0 | 2,613.68 | 15,782.7 |  |

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Electropherogram Summary Continued ...



Overall Results for sample 5 : K

Number of peaks found: 8 Corr. Area 1: 481.5
 Noise: 0.3

Peak table for sample 5 : K

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 430 | 2.10 | 7.4 | |
| 3 | 480 | 4.86 | 15.3 | |
| 4 | 603 | 155.12 | 389.5 | |
| 5 | 627 | 37.27 | 90.0 | |
| 6 | 639 | 181.70 | 430.6 | |
| 7 | 1,083 | 3.06 | 4.3 | |
| 8 | 2,055 | 1.71 | 1.3 | |
| 9 | 2,650 | 1.84 | 1.1 | |
| 10 | 10,380 | 75.00 | 10.9 | Upper Marker |

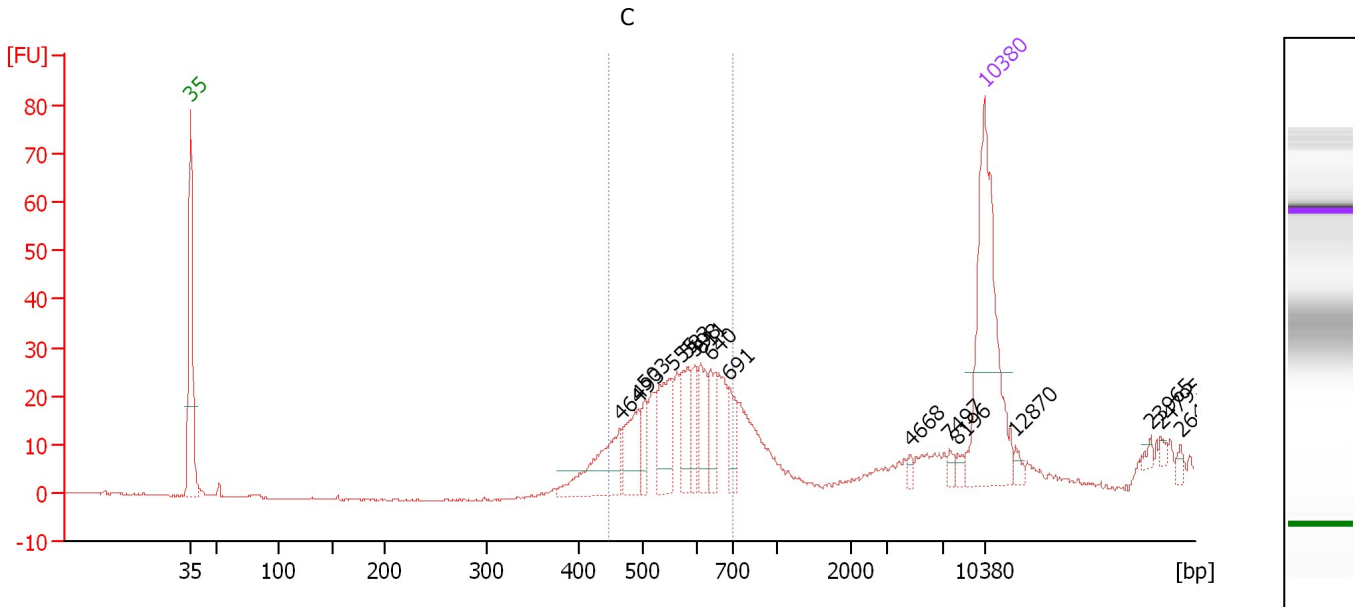
Region table for sample 5 : K

| From [bp] | Average Size [bp] | To [bp] | Corr. Area | % of Total | Size distribution in CV [%] | Conc. [pg/μl] | Molarity [pmol/l] | Color |
|-----------|-------------------|---------|------------|------------|-----------------------------|---------------|-------------------|-------|
| 469 | 649 | 1,126 | 481.5 | 71 | 17.3 | 397.96 | 957.1 | Blue |

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Electropherogram Summary Continued ...



Overall Results for sample 6 : C

Number of peaks found: 16 Corr. Area 1: 236.8
 Noise: 0.2

Peak table for sample 6 : C

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 464 | 38.63 | 126.2 | |
| 3 | 493 | 25.62 | 78.7 | |
| 4 | 503 | 11.28 | 34.0 | |
| 5 | 555 | 31.08 | 84.9 | |
| 6 | 583 | 20.73 | 53.9 | |
| 7 | 598 | 13.47 | 34.1 | |
| 8 | 611 | 18.30 | 45.3 | |
| 9 | 640 | 15.84 | 37.5 | |
| 10 | 691 | 14.50 | 31.8 | |
| 11 | 4,668 | 2.19 | 0.7 | |
| 12 | 7,497 | 2.72 | 0.5 | |
| 13 | 8,196 | 2.67 | 0.5 | |
| 14 | 10,380 | 75.00 | 10.9 | Upper Marker |
| 15 | 12,870 | 0.00 | 0.0 | |
| 16 | 23,965 | 0.00 | 0.0 | |
| 17 | 24,795 | 0.00 | 0.0 | |
| 18 | 26,412 | 0.00 | 0.0 | |

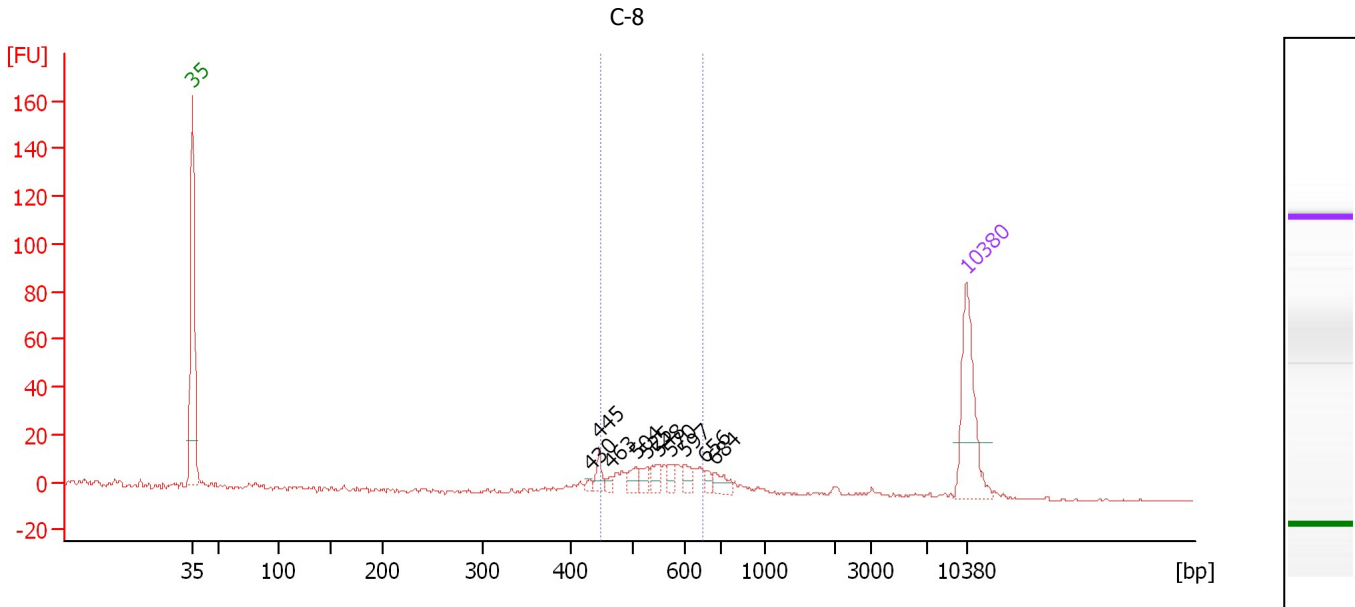
Region table for sample 6 : C

| From [bp] | Average Size [bp] | To [bp] | Corr. Area | % of Total | Size distribution in CV [%] | Conc. [pg/μl] | Molarity [pmol/l] | Color |
|-----------|-------------------|---------|------------|------------|-----------------------------|---------------|-------------------|-------|
| 445 | 572 | 709 | 236.8 | 71 | 11.9 | 180.64 | 487.4 | Blue |

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Electropherogram Summary Continued ...



Overall Results for sample 8 : C-8

Number of peaks found: 10 Corr. Area 1: 105.3
 Noise: 0.3

Peak table for sample 8 : C-8

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 430 | 4.35 | 15.3 | |
| 3 | 445 | 12.11 | 41.3 | |
| 4 | 463 | 5.36 | 17.5 | |
| 5 | 504 | 13.57 | 40.8 | |
| 6 | 525 | 10.53 | 30.4 | |
| 7 | 548 | 13.09 | 36.2 | |
| 8 | 570 | 10.13 | 26.9 | |
| 9 | 597 | 11.28 | 28.6 | |
| 10 | 656 | 6.71 | 15.5 | |
| 11 | 684 | 14.11 | 31.2 | |
| 12 | 10,380 | 75.00 | 10.9 | Upper Marker |

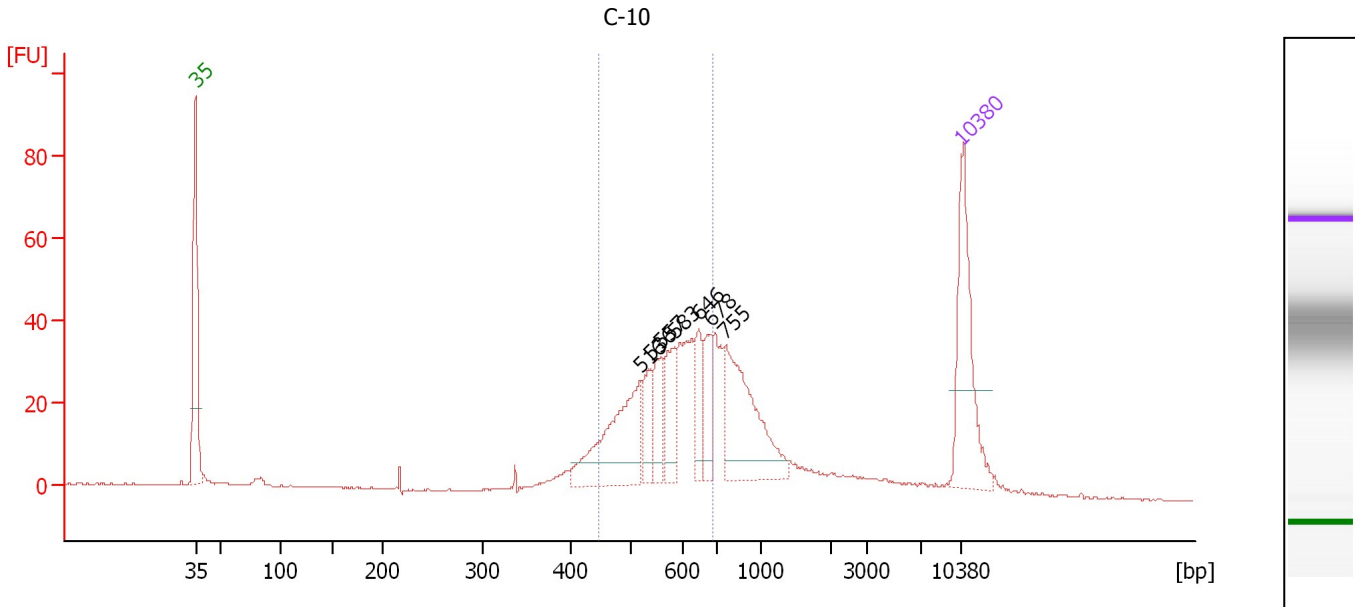
Region table for sample 8 : C-8

| From [bp] | Average Size [bp] | To [bp] | Corr. Area | % of Total | Size distribution in CV [%] | Conc. [pg/μl] | Molarity [pmol/l] | Color |
|-----------|-------------------|---------|------------|------------|-----------------------------|---------------|-------------------|-------|
| 448 | 546 | 649 | 105.3 | 58 | 9.8 | 102.67 | 288.7 | Blue |

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Electropherogram Summary Continued ...



Overall Results for sample 9 : C-10

Number of peaks found: 7 Corr. Area 1: 355.6
 Noise: 0.2

Peak table for sample 9 : C-10

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 516 | 105.20 | 308.6 | |
| 3 | 536 | 28.78 | 81.3 | |
| 4 | 557 | 30.97 | 84.3 | |
| 5 | 583 | 38.80 | 100.9 | |
| 6 | 646 | 29.30 | 68.8 | |
| 7 | 678 | 29.29 | 65.4 | |
| 8 | 755 | 107.12 | 215.0 | |
| 9 | 10,380 | 75.00 | 10.9 | Upper Marker |

Region table for sample 9 : C-10

| From [bp] | Average Size [bp] | To [bp] | Corr. Area | % of Total | Size distribution in CV [%] | Conc. [pg/μl] | Molarity [pmol/l] | Color |
|-----------|-------------------|---------|------------|------------|-----------------------------|---------------|-------------------|-------|
| 447 | 571 | 688 | 355.6 | 52 | 11.4 | 344.49 | 930.7 | Blue |

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Modified: 11/7/2014 12:12:46 PM

Gel Image

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ts and Settings\Bioanalyzer\2014-11-07\2014-11-07_001_2.xad

Created: 11/7/2014 11:13:07 AM
 Modified: 11/7/2014 12:12:46 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 | | 11/7/2014 11:52:30 AM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-11-07\2014-11-07_001.xad) | | Instrument | Run | | 11/7/2014 11:13:07 AM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Product Number : G2938B | | Instrument | Run | | 11/7/2014 11:13:07 AM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Name : | | Instrument | Run | | 11/7/2014 11:13:07 AM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Vendor : Agilent Technologies | | Instrument | Run | | 11/7/2014 11:13:07 AM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Serial# : DE13701086 | | Instrument | Run | | 11/7/2014 11:13:07 AM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Firmware : C.01.069 | | Instrument | Run | | 11/7/2014 11:13:07 AM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Cartridge : Electrode | | Instrument | Run | | 11/7/2014 11:13:07 AM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |