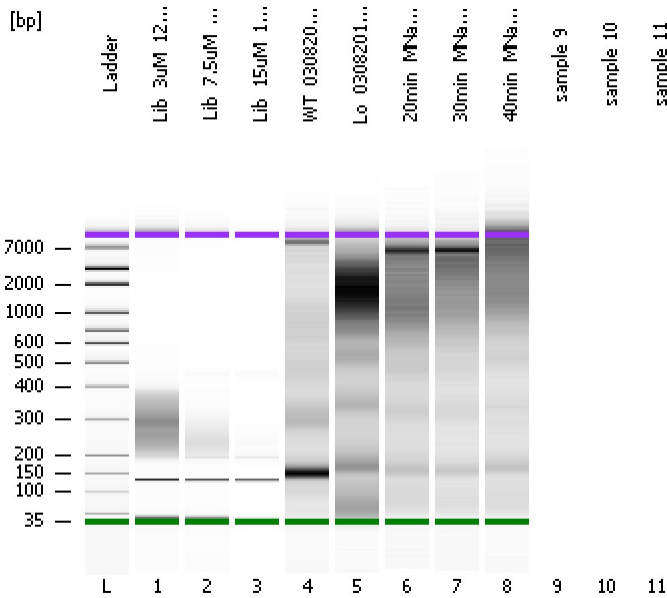


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-09\2015-03-09\_004.xad

Created: 3/9/2015 4:31:39 PM  
Modified: 3/9/2015 5:08:36 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

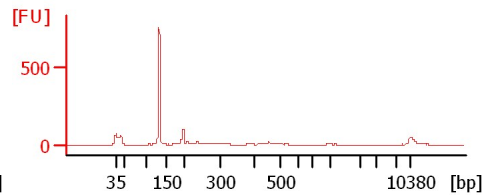
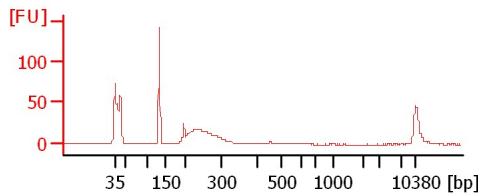
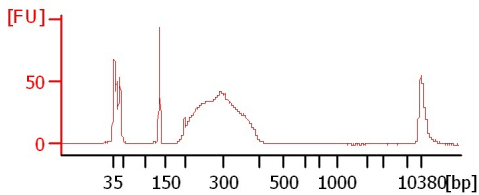
Chip Information:

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

Lib\_3uM\_12cycles

Lib\_7.5uM\_12cycles

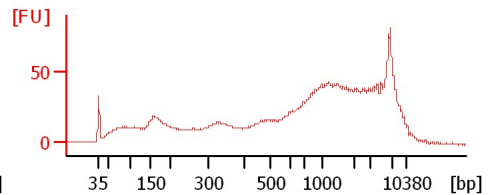
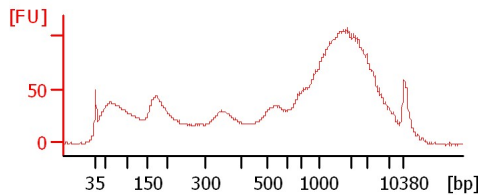
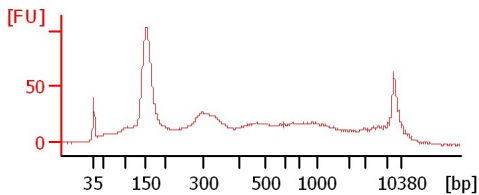
Lib\_15uM\_12cycles



WT\_03082015\_MNase Check

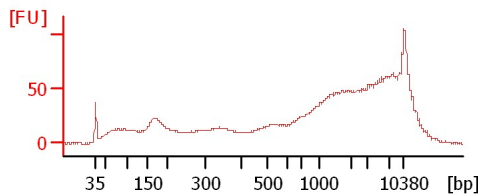
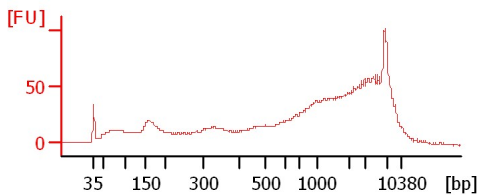
Lo\_03082015\_MNase Check

20min\_MNase Check



30min\_MNase Check

40min\_MNase Check



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-09\2015-03-09\_004.xad

Created: 3/9/2015 4:31:39 PM  
Modified: 3/9/2015 5:08:36 PM

**Electrophoresis File Run Summary (Chip Summary)**

| Sample Name             | Sample Comment | Rest. Digest             | Status | Observation | Result Label | Result Color |
|-------------------------|----------------|--------------------------|--------|-------------|--------------|--------------|
| Lib_3uM_12cycles        |                | <input type="checkbox"/> | ✓      |             |              |              |
| Lib_7.5uM_12cycles      |                | <input type="checkbox"/> | ✓      |             |              |              |
| Lib_15uM_12cycles       |                | <input type="checkbox"/> | ✓      |             |              |              |
| WT_03082015_MNase Check |                | <input type="checkbox"/> | ✓      |             |              |              |
| Lo_03082015_MNase Check |                | <input type="checkbox"/> | ✓      |             |              |              |
| 20min_MNase Check       |                | <input type="checkbox"/> | ✓      |             |              |              |
| 30min_MNase Check       |                | <input type="checkbox"/> | ✓      |             |              |              |
| 40min_MNase Check       |                | <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\2015-03-09\2015-03-09\_004.xad

Created: 3/9/2015 4:31:39 PM  
Modified: 3/9/2015 5:08:36 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/ $\mu$ l] : 1950  
Uses Standard Area for Ladder Fragments  
Lower Marker Concentration [pg/ $\mu$ l] : 125  
Upper Marker Concentration [pg/ $\mu$ l] : 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

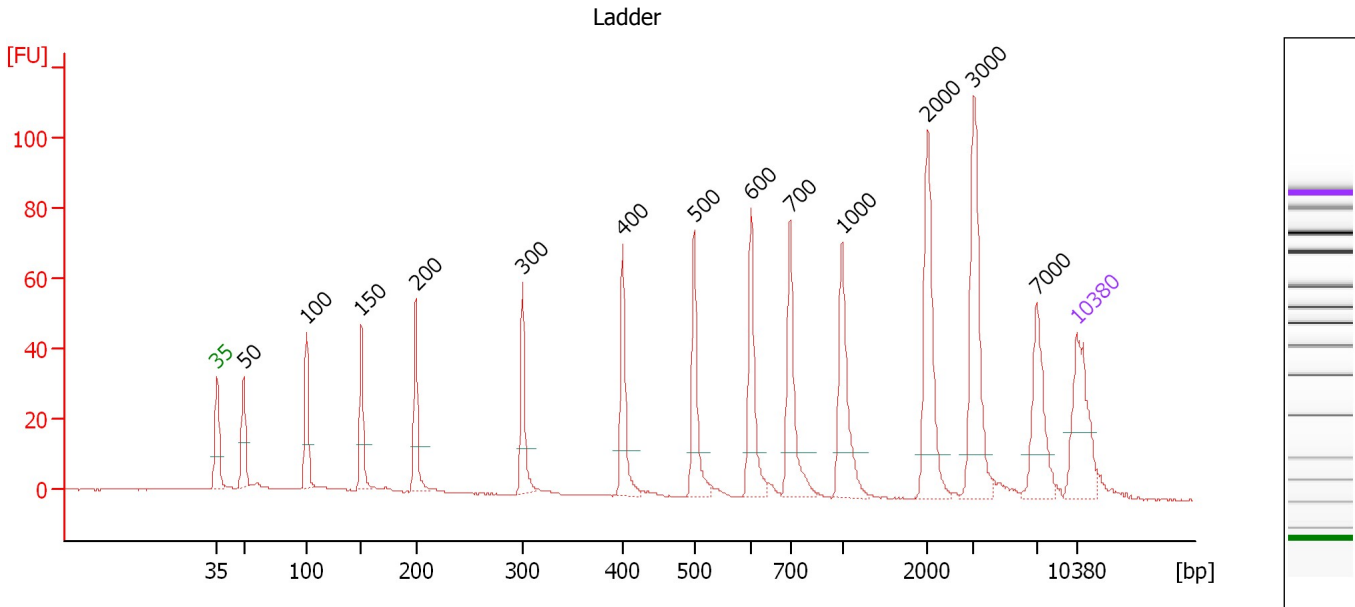
**Ladder**

| 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\2015-03-09\2015-03-09\_004.xad

Created: 3/9/2015 4:31:39 PM  
 Modified: 3/9/2015 5:08:36 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

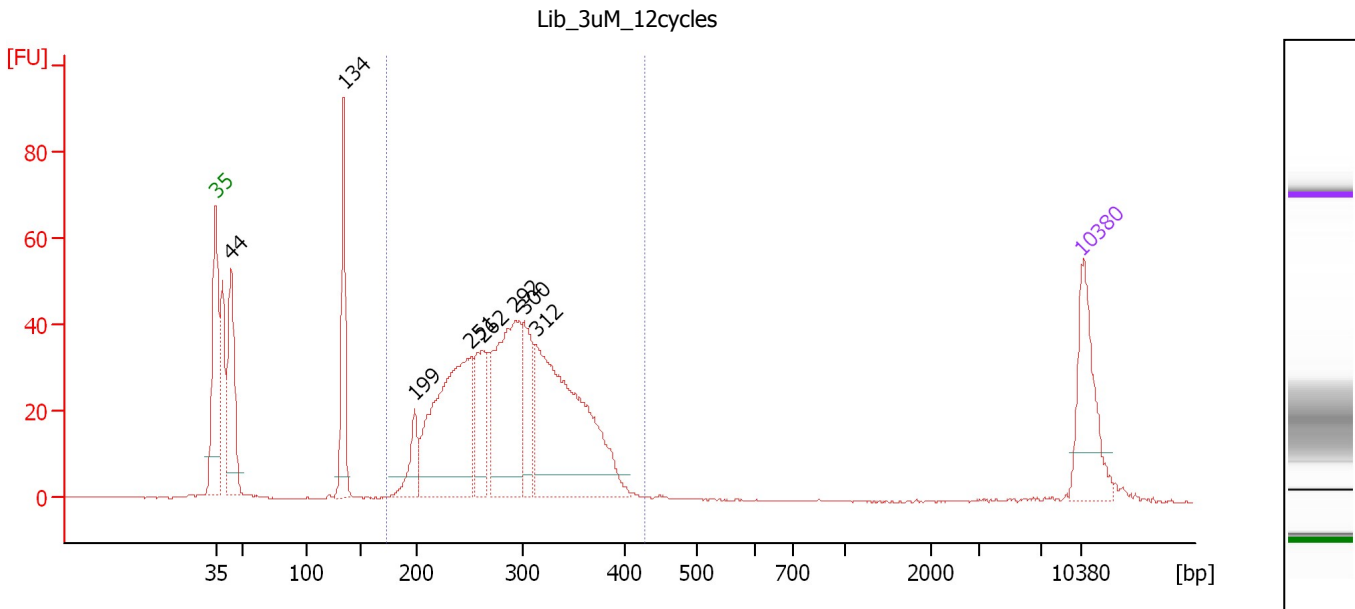
**Peak table for Ladder**

| 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  | 45.17                      |
| 3    | 100       | 150.00        | 2,272.7           | Ladder Peak  | 50.30                      |
| 4    | 150       | 150.00        | 1,515.2           | Ladder Peak  | 54.77                      |
| 5    | 200       | 150.00        | 1,136.4           | Ladder Peak  | 59.20                      |
| 6    | 300       | 150.00        | 757.6             | Ladder Peak  | 67.88                      |
| 7    | 400       | 150.00        | 568.2             | Ladder Peak  | 76.05                      |
| 8    | 500       | 150.00        | 454.5             | Ladder Peak  | 81.86                      |
| 9    | 600       | 150.00        | 378.8             | Ladder Peak  | 86.51                      |
| 10   | 700       | 150.00        | 324.7             | Ladder Peak  | 89.68                      |
| 11   | 1,000     | 150.00        | 227.3             | Ladder Peak  | 93.94                      |
| 12   | 2,000     | 150.00        | 113.6             | Ladder Peak  | 100.88                     |
| 13   | 3,000     | 150.00        | 75.8              | Ladder Peak  | 104.66                     |
| 14   | 7,000     | 150.00        | 32.5              | Ladder Peak  | 109.79                     |
| 15   | 10,380    | 75.00         | 10.9              | Upper Marker | 113.00                     |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-09\2015-03-09\_004.xad

Created: 3/9/2015 4:31:39 PM  
 Modified: 3/9/2015 5:08:36 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : Lib 3uM 12cycles**

Number of peaks found: 8                      Corr. Area 1: 746.3  
 Noise: 0.1

**Peak table for sample 1 : Lib 3uM 12cycles**

| 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    | 44        | 163.32        | 5,671.0           |              | 44.25                      |
| 3    | 134       | 133.56        | 1,509.1           |              | 53.34                      |
| 4    | 199       | 48.15         | 367.2             |              | 59.08                      |
| 5    | 251       | 296.82        | 1,790.1           |              | 63.65                      |
| 6    | 262       | 85.87         | 496.3             |              | 64.59                      |
| 7    | 292       | 233.57        | 1,210.2           |              | 67.22                      |
| 8    | 300       | 81.80         | 412.6             |              | 67.91                      |
| 9    | 312       | 354.73        | 1,722.6           |              | 68.86                      |
| 10   | 10,380    | 75.00         | 10.9              | Upper Marker | 113.00                     |

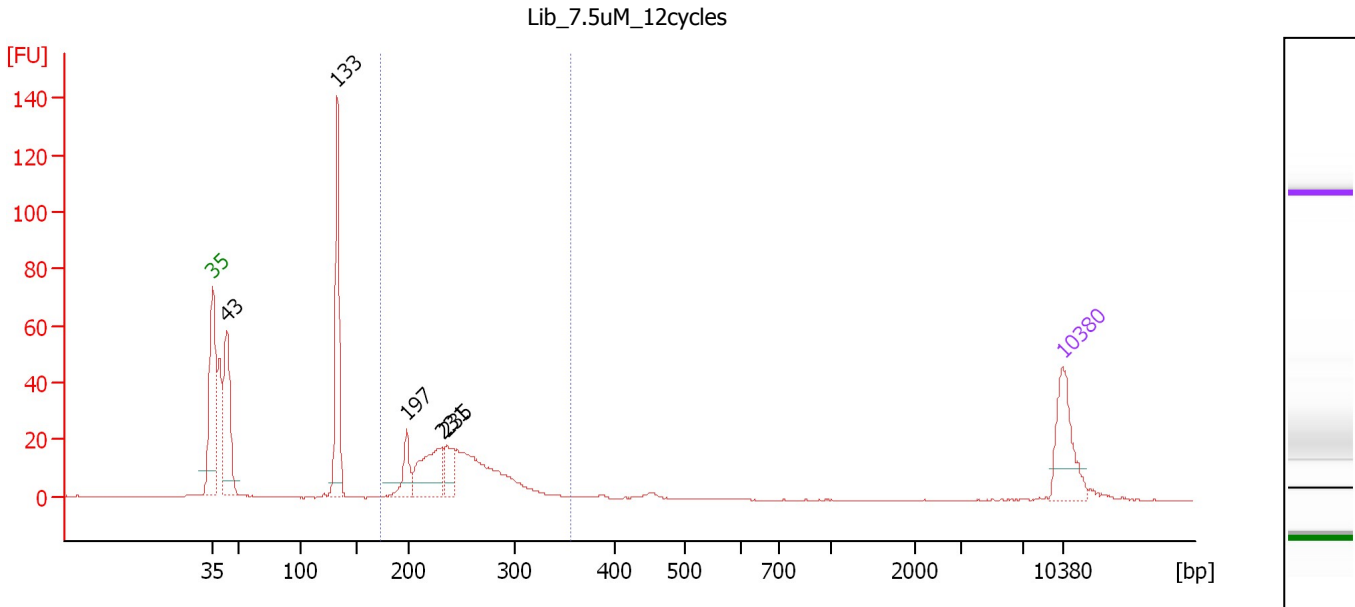
**Region table for sample 1 : Lib 3uM 12cycles**

| From [bp] | Average Size [bp] | To [bp] | Corr. Area | Molarity [pmol/l] | % of Total | Size distribution in CV [%] | Conc. [pg/μl] | Color |
|-----------|-------------------|---------|------------|-------------------|------------|-----------------------------|---------------|-------|
| 172       | 289               | 428     | 746.3      | 6,310.0           | 77         | 17.5                        | 1,157.01      | Blue  |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-09\2015-03-09\_004.xad

Created: 3/9/2015 4:31:39 PM  
 Modified: 3/9/2015 5:08:36 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : Lib 7.5uM 12cycles**

Number of peaks found: 5                      Corr. Area 1: 223.6  
 Noise: 0.1

**Peak table for sample 2 : Lib 7.5uM 12cycles**

| 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    | 43        | 218.39        | 7,716.3           |              | 44.14                      |
| 3    | 133       | 251.62        | 2,861.2           |              | 53.27                      |
| 4    | 197       | 55.59         | 426.5             |              | 58.97                      |
| 5    | 231       | 123.79        | 810.9             |              | 61.92                      |
| 6    | 235       | 53.30         | 343.1             |              | 62.27                      |
| 7    | 10,380    | 75.00         | 10.9              | Upper Marker | 113.00                     |

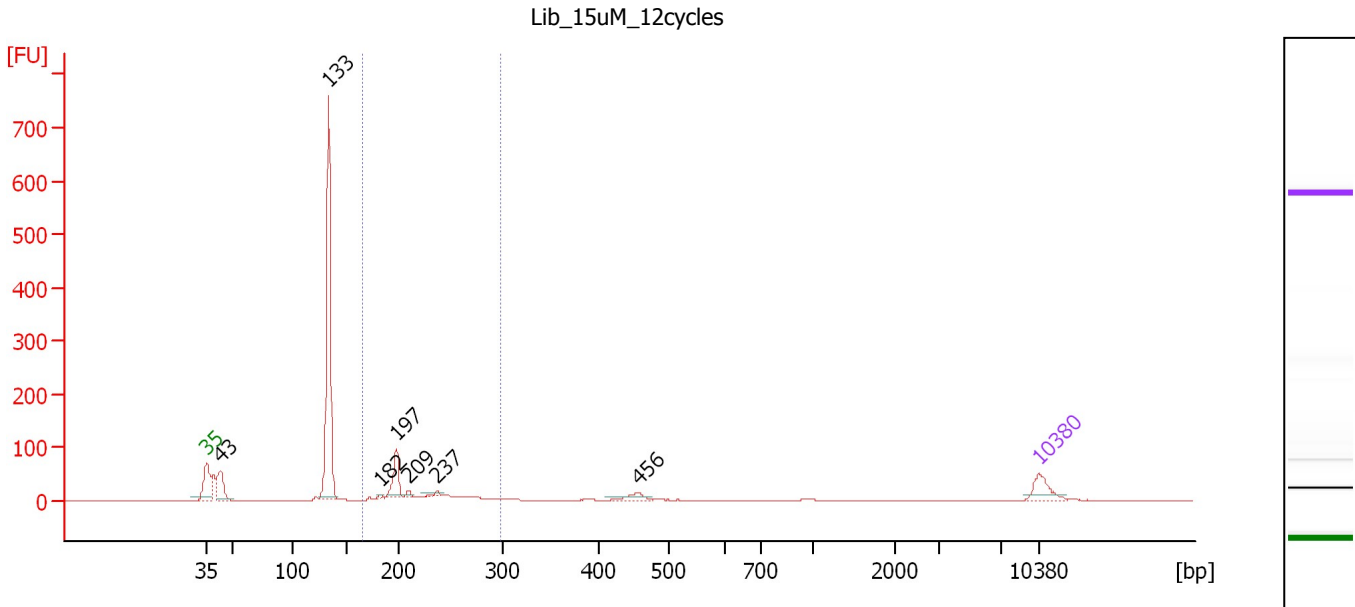
**Region table for sample 2 : Lib 7.5uM 12cycles**

| From [bp] | Average Size [bp] | To [bp] | Corr. Area | Molarity [pmol/l] | % of Total | Size distribution in CV [%] | Conc. [pg/μl] | Color |
|-----------|-------------------|---------|------------|-------------------|------------|-----------------------------|---------------|-------|
| 172       | 246               | 357     | 223.6      | 2,780.9           | 46         | 14.0                        | 444.29        | Blue  |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-09\2015-03-09\_004.xad

Created: 3/9/2015 4:31:39 PM  
 Modified: 3/9/2015 5:08:36 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : Lib 15uM 12cycles**

Number of peaks found: 7                      Corr. Area 1: 246.8  
 Noise: 0.2

**Peak table for sample 3 : Lib 15uM 12cycles**

| 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    | 43        | 199.48        | 7,070.6           |              | 44.12                      |
| 3    | 133       | 1,291.64      | 14,687.6          |              | 53.27                      |
| 4    | 182       | 7.46          | 62.0              |              | 57.62                      |
| 5    | 197       | 161.77        | 1,241.8           |              | 58.96                      |
| 6    | 209       | 18.71         | 135.9             |              | 59.95                      |
| 7    | 237       | 16.30         | 104.4             |              | 62.37                      |
| 8    | 456       | 45.99         | 153.0             |              | 79.28                      |
| 9    | 10,380    | 75.00         | 10.9              | Upper Marker | 113.00                     |

**Region table for sample 3 : Lib 15uM 12cycles**

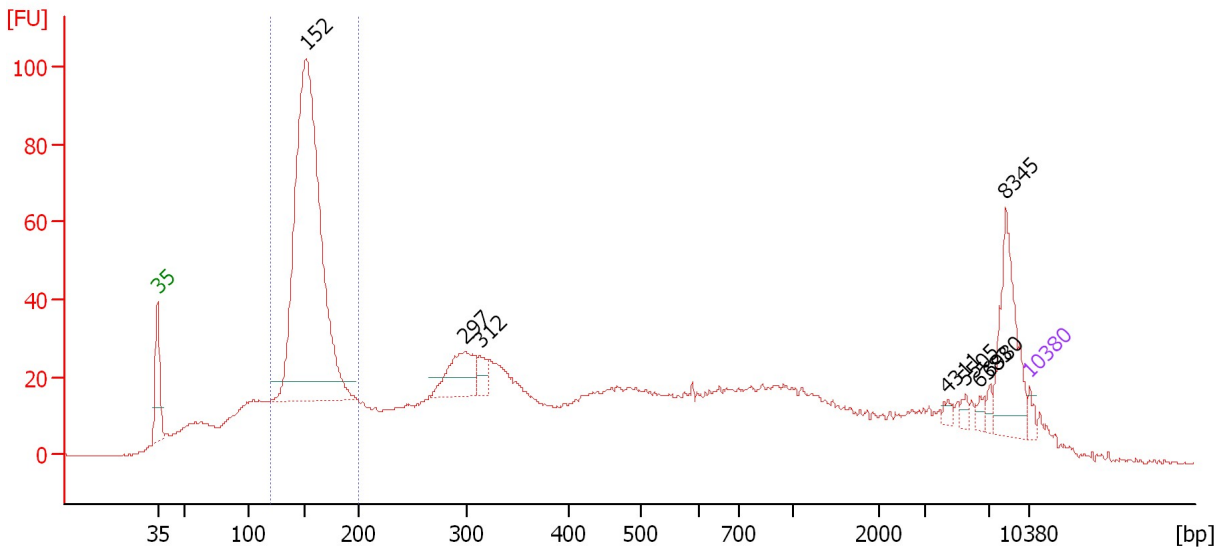
| From [bp] | Average Size [bp] | To [bp] | Corr. Area | Molarity [pmol/l] | % of Total | Size distribution in CV [%] | Conc. [pg/μl] | Color |
|-----------|-------------------|---------|------------|-------------------|------------|-----------------------------|---------------|-------|
| 164       | 219               | 298     | 246.8      | 3,301.8           | 22         | 14.3                        | 467.65        | Blue  |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-09\2015-03-09\_004.xad

Created: 3/9/2015 4:31:39 PM  
 Modified: 3/9/2015 5:08:36 PM

**Electropherogram Summary Continued ...**

WT\_03082015\_MNase Check



**Overall Results for sample 4 : WT\_03082015\_MNase Check**

Number of peaks found: 8                      Corr. Area 1: 592.0  
 Noise: 0.2

**Peak table for sample 4 : WT\_03082015\_MNase Check**

| 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    | 152       | 9,114.24      | 91,010.9          |              | 54.92                      |
| 3    | 297       | 812.66        | 4,140.7           |              | 67.65                      |
| 4    | 312       | 232.82        | 1,130.4           |              | 68.87                      |
| 5    | 4,311     | 66.74         | 23.5              |              | 106.34                     |
| 6    | 5,505     | 67.46         | 18.6              |              | 107.87                     |
| 7    | 6,383     | 77.00         | 18.3              |              | 109.00                     |
| 8    | 6,980     | 72.59         | 15.8              |              | 109.76                     |
| 9    | 8,345     | 968.39        | 175.8             |              | 111.07                     |
| 10   | 10,380    | 75.00         | 10.9              | Upper Marker | 113.00                     |

**Region table for sample 4 : WT\_03082015\_MNase Check**

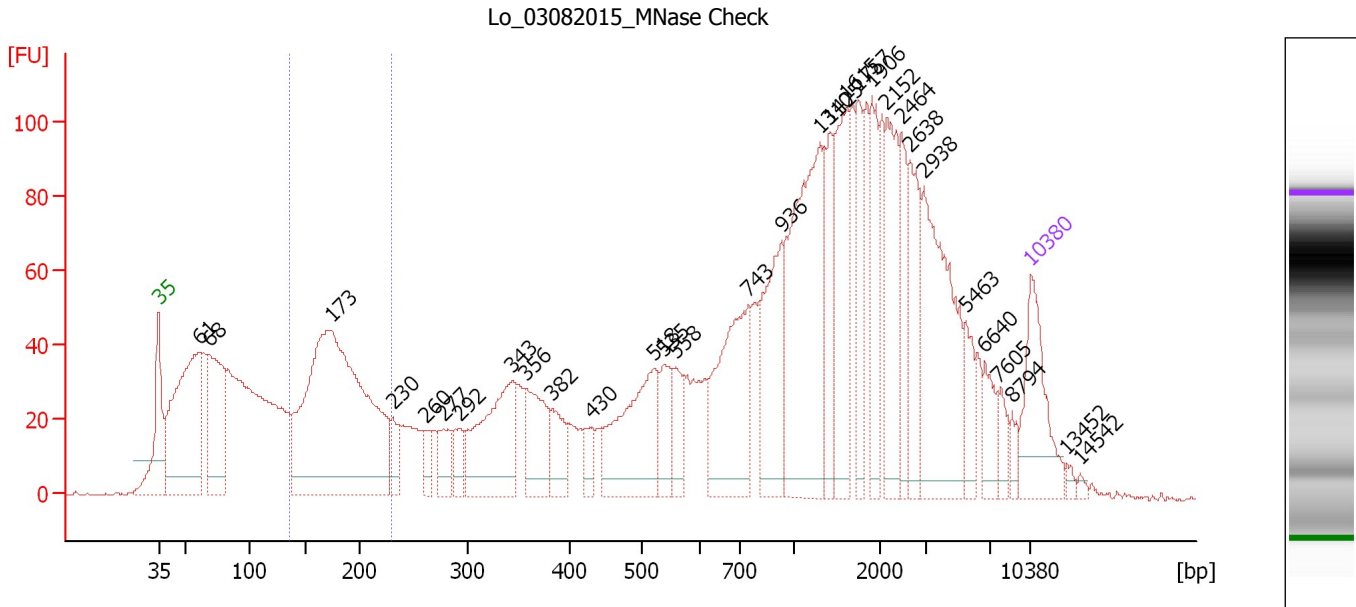
| From [bp] | Average Size [bp] | To [bp] | Corr. Area | Molarity [pmol/l] | % of Total | Size distribution in CV [%] | Conc. [pg/μl] | Color |
|-----------|-------------------|---------|------------|-------------------|------------|-----------------------------|---------------|-------|
| 119       | 156               | 200     | 592.0      | 132,019.2         | 30         | 10.6                        | 13,458.92     | Blue  |



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-09\2015-03-09\_004.xad

Created: 3/9/2015 4:31:39 PM  
 Modified: 3/9/2015 5:08:36 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : Lo\_03082015 MNase Check**

Number of peaks found: 31                      Corr. Area 1: 450.1  
 Noise: 0.3

**Peak table for sample 5 : Lo\_03082015 MNase Check**

| 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    | 61        | 303.36        | 7,593.5           |              | 46.25                      |
| 3    | 68        | 172.31        | 3,845.8           |              | 47.00                      |
| 4    | 173       | 611.64        | 5,341.5           |              | 56.85                      |
| 5    | 230       | 33.18         | 218.2             |              | 61.84                      |
| 6    | 260       | 22.41         | 130.4             |              | 64.43                      |
| 7    | 277       | 35.64         | 194.8             |              | 65.89                      |
| 8    | 292       | 28.60         | 148.5             |              | 67.17                      |
| 9    | 343       | 152.22        | 672.1             |              | 71.41                      |
| 10   | 356       | 82.75         | 351.8             |              | 72.49                      |
| 11   | 382       | 43.18         | 171.4             |              | 74.56                      |
| 12   | 430       | 20.04         | 70.7              |              | 77.76                      |
| 13   | 518       | 146.44        | 428.2             |              | 82.71                      |
| 14   | 535       | 46.06         | 130.3             |              | 83.51                      |
| 15   | 558       | 35.81         | 97.3              |              | 84.55                      |
| 16   | 743       | 159.29        | 324.7             |              | 90.29                      |
| 17   | 936       | 116.62        | 188.8             |              | 93.03                      |
| 18   | 1,310     | 237.61        | 274.9             |              | 96.09                      |
| 19   | 1,425     | 58.82         | 62.5              |              | 96.89                      |
| 20   | 1,615     | 107.45        | 100.8             |              | 98.21                      |
| 21   | 1,757     | 56.27         | 48.5              |              | 99.20                      |
| 22   | 1,906     | 65.66         | 52.2              |              | 100.23                     |
| 23   | 2,152     | 93.26         | 65.7              |              | 101.46                     |
| 24   | 2,464     | 47.31         | 29.1              |              | 102.64                     |
| 25   | 2,638     | 68.38         | 39.3              |              | 103.30                     |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-09\2015-03-09\_004.xad


Created: 3/9/2015 4:31:39 PM  
 Modified: 3/9/2015 5:08:36 PM

**Electropherogram Summary Continued ...**

**... Peak table for sample 5 : Lo 03082015 MNase Check**

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 26   | 2,938     | 166.31        | 85.8              |              | 104.43                     |
| 27   | 5,463     | 31.95         | 8.9               |              | 107.82                     |
| 28   | 6,640     | 27.98         | 6.4               |              | 109.33                     |
| 29   | 7,605     | 17.20         | 3.4               |              | 110.36                     |
| 30   | 8,794     | 9.58          | 1.6               |              | 111.49                     |
| 31   | 10,380    | 75.00         | 10.9              | Upper Marker | 113.00                     |
| 32   | 13,452    | 0.00          | 0.0               |              | 115.92                     |
| 33   | 14,542    | 0.00          | 0.0               |              | 116.96                     |

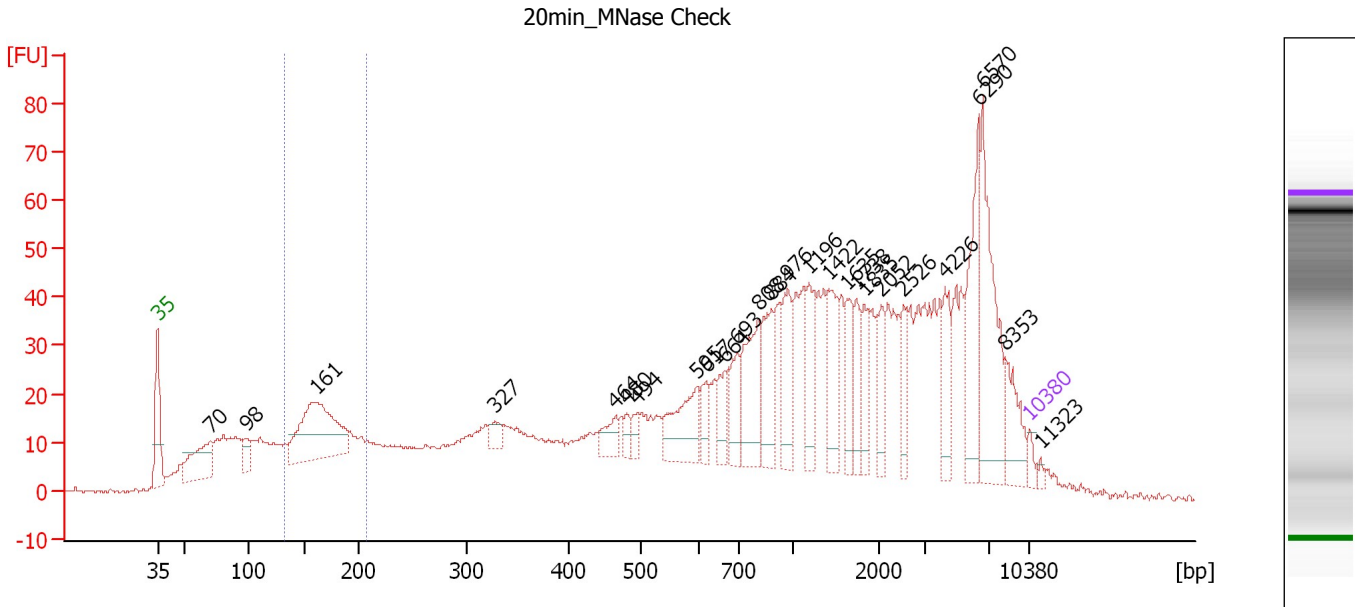
**Region table for sample 5 : Lo 03082015 MNase Check**

| From [bp] | Average Size [bp] | To [bp] | Corr. Area | Molarity [pmol/l] | % of Total | Size distribution in CV [%] | Conc. [pg/μl] | Color   |
|-----------|-------------------|---------|------------|-------------------|------------|-----------------------------|---------------|---|
| 137       | 180               | 230     | 450.1      | 5,318.6           | 12         | 13.4                        | 620.31        |  |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-09\2015-03-09\_004.xad

Created: 3/9/2015 4:31:39 PM  
 Modified: 3/9/2015 5:08:36 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : 20min\_MNase Check**

Number of peaks found: 26                      Corr. Area 1: 173.5  
 Noise: 0.3

**Peak table for sample 6 : 20min\_MNase Check**

| 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    | 70        | 896.79        | 19,312.8          |              | 47.26                      |
| 3    | 98        | 253.83        | 3,928.1           |              | 50.08                      |
| 4    | 161       | 1,893.35      | 17,781.1          |              | 55.77                      |
| 5    | 327       | 163.91        | 760.0             |              | 70.07                      |
| 6    | 464       | 253.53        | 828.6             |              | 79.75                      |
| 7    | 480       | 120.16        | 379.5             |              | 80.69                      |
| 8    | 494       | 133.00        | 407.6             |              | 81.54                      |
| 9    | 595       | 713.39        | 1,815.8           |              | 86.29                      |
| 10   | 617       | 236.03        | 579.5             |              | 87.05                      |
| 11   | 664       | 303.98        | 693.9             |              | 88.53                      |
| 12   | 693       | 396.73        | 866.9             |              | 89.47                      |
| 13   | 808       | 836.00        | 1,566.7           |              | 91.22                      |
| 14   | 884       | 589.99        | 1,010.9           |              | 92.30                      |
| 15   | 976       | 524.60        | 814.4             |              | 93.60                      |
| 16   | 1,196     | 494.24        | 626.1             |              | 95.30                      |
| 17   | 1,422     | 519.40        | 553.5             |              | 96.87                      |
| 18   | 1,635     | 359.02        | 332.8             |              | 98.35                      |
| 19   | 1,738     | 322.66        | 281.3             |              | 99.06                      |
| 20   | 1,835     | 354.61        | 292.9             |              | 99.73                      |
| 21   | 2,052     | 299.20        | 221.0             |              | 101.08                     |
| 22   | 2,526     | 277.14        | 166.2             |              | 102.87                     |
| 23   | 4,226     | 402.38        | 144.3             |              | 106.23                     |
| 24   | 6,290     | 860.04        | 207.2             |              | 108.88                     |
| 25   | 6,570     | 1,291.13      | 297.8             |              | 109.24                     |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-09\2015-03-09\_004.xad


Created: 3/9/2015 4:31:39 PM  
 Modified: 3/9/2015 5:08:36 PM

### Electropherogram Summary Continued ...

#### ... Peak table for sample 6 : 20min MNase Check

| Peak | Size [bp] | Conc. [pg/ $\mu$ l] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------------|-------------------|--------------|----------------------------|
| 26   | 8,353     | 419.57              | 76.1              |              | 111.07                     |
| 27   | 10,380    | 75.00               | 10.9              | Upper Marker | 113.00                     |
| 28   | 11,323    | 0.00                | 0.0               |              | 113.90                     |

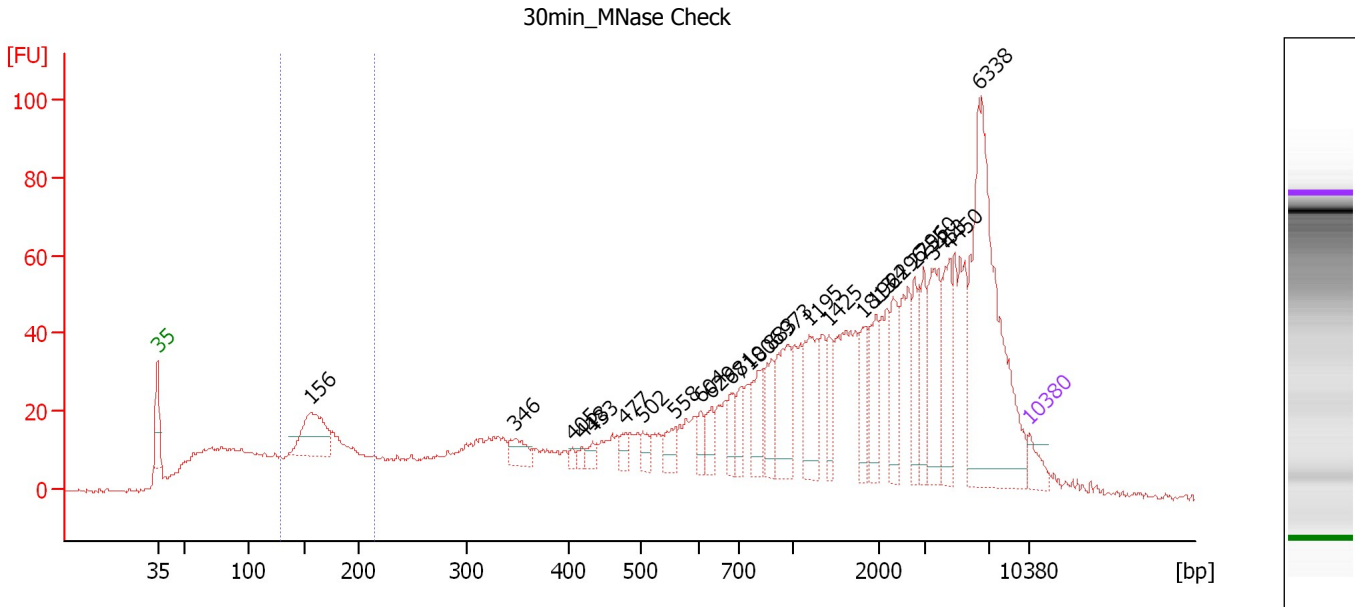
#### Region table for sample 6 : 20min MNase Check

| From [bp] | Average Size [bp] | To [bp] | Corr. Area | Molarity [pmol/l] | % of Total | Size distribution in CV [%] | Conc. [pg/ $\mu$ l] | Color   |
|-----------|-------------------|---------|------------|-------------------|------------|-----------------------------|---------------------|---|
| 133       | 168               | 206     | 173.5      | 39,081.1          | 9          | 11.6                        | 4,283.86            |  |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-09\2015-03-09\_004.xad

Created: 3/9/2015 4:31:39 PM  
 Modified: 3/9/2015 5:08:36 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : 30min\_MNase Check**

Number of peaks found: 25                      Corr. Area 1: 187.1  
 Noise: 0.5

**Peak table for sample 7 : 30min\_MNase Check**

| 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    | 156       | 467.29        | 4,546.6           |              | 55.28                      |
| 3    | 346       | 130.09        | 569.3             |              | 71.66                      |
| 4    | 405       | 31.71         | 118.8             |              | 76.31                      |
| 5    | 418       | 32.08         | 116.3             |              | 77.09                      |
| 6    | 433       | 52.06         | 182.2             |              | 77.95                      |
| 7    | 477       | 70.08         | 222.4             |              | 80.56                      |
| 8    | 502       | 70.39         | 212.3             |              | 81.97                      |
| 9    | 558       | 95.79         | 260.0             |              | 84.57                      |
| 10   | 604       | 74.01         | 185.8             |              | 86.62                      |
| 11   | 629       | 106.96        | 257.5             |              | 87.45                      |
| 12   | 681       | 113.12        | 251.6             |              | 89.09                      |
| 13   | 710       | 106.07        | 226.4             |              | 89.82                      |
| 14   | 806       | 207.39        | 389.8             |              | 91.19                      |
| 15   | 883       | 174.29        | 298.9             |              | 92.28                      |
| 16   | 973       | 317.08        | 493.5             |              | 93.56                      |
| 17   | 1,195     | 278.05        | 352.4             |              | 95.29                      |
| 18   | 1,425     | 134.70        | 143.2             |              | 96.89                      |
| 19   | 1,813     | 155.48        | 129.9             |              | 99.58                      |
| 20   | 1,964     | 190.65        | 147.1             |              | 100.63                     |
| 21   | 2,296     | 209.47        | 138.2             |              | 102.00                     |
| 22   | 2,755     | 163.20        | 89.8              |              | 103.74                     |
| 23   | 2,960     | 191.71        | 98.1              |              | 104.51                     |
| 24   | 3,453     | 331.57        | 145.5             |              | 105.24                     |
| 25   | 4,450     | 257.48        | 87.7              |              | 106.52                     |

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-09\2015-03-09\_004.xad

Created: 3/9/2015 4:31:39 PM  
Modified: 3/9/2015 5:08:36 PM

**Electropherogram Summary Continued ...****... Peak table for sample 7 : 30min MNase Check**

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 26   | 6,338     | 1,257.02      | 300.5             |              | 108.94                     |
| 27   | 10,380    | 75.00         | 10.9              | Upper Marker | 113.00                     |

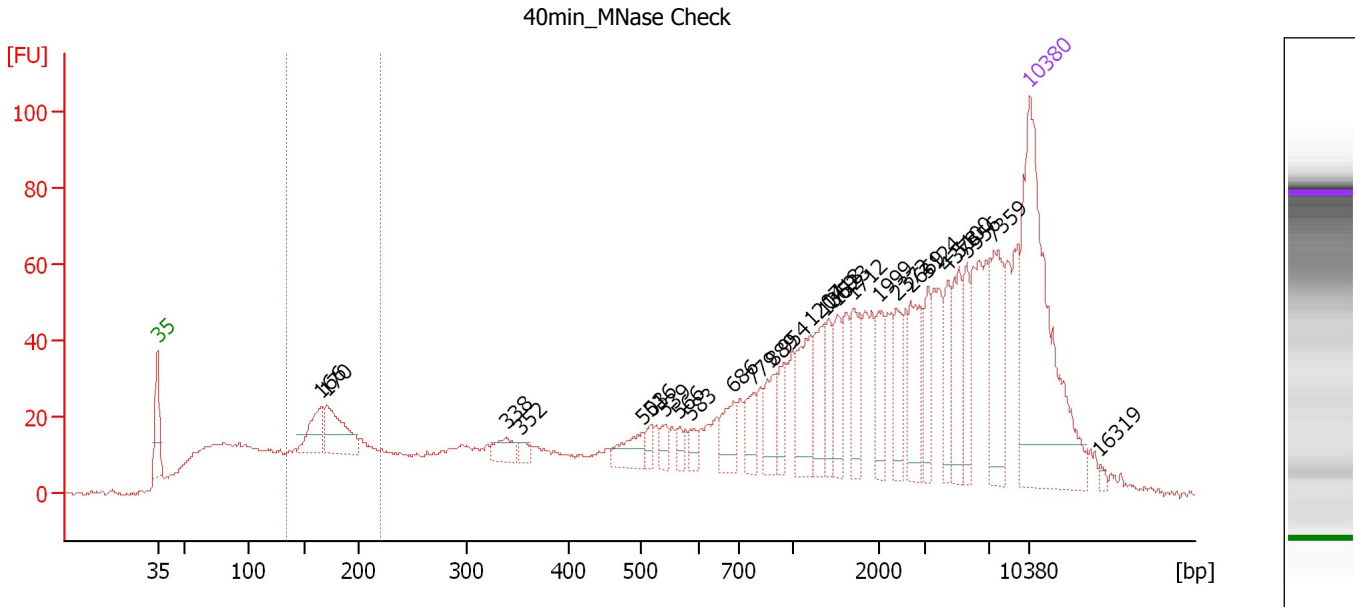
**Region table for sample 7 : 30min MNase Check**

| From [bp] | Average Size [bp] | To [bp] | Corr. Area | Molarity [pmol/l] | % of Total | Size distribution in CV [%] | Conc. [pg/μl] | Color |
|-----------|-------------------|---------|------------|-------------------|------------|-----------------------------|---------------|-------|
| 130       | 169               | 214     | 187.1      | 16,984.3          | 9          | 12.9                        | 1,859.87      | ■     |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-09\2015-03-09\_004.xad

Created: 3/9/2015 4:31:39 PM  
 Modified: 3/9/2015 5:08:36 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : 40min\_MNase Check**

Number of peaks found: 27                      Corr. Area 1: 211.3  
 Noise: 0.5

**Peak table for sample 8 : 40min\_MNase Check**

| 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    | 166       | 15.60         | 142.8             |              | 56.14                      |
| 3    | 170       | 26.00         | 231.9             |              | 56.53                      |
| 4    | 338       | 7.69          | 34.5              |              | 70.99                      |
| 5    | 352       | 3.18          | 13.7              |              | 72.16                      |
| 6    | 503       | 10.80         | 32.5              |              | 81.99                      |
| 7    | 516       | 4.32          | 12.7              |              | 82.62                      |
| 8    | 539       | 4.68          | 13.2              |              | 83.70                      |
| 9    | 566       | 3.54          | 9.5               |              | 84.91                      |
| 10   | 583       | 3.95          | 10.2              |              | 85.74                      |
| 11   | 686       | 11.29         | 24.9              |              | 89.24                      |
| 12   | 779       | 9.30          | 18.1              |              | 90.80                      |
| 13   | 889       | 11.31         | 19.3              |              | 92.36                      |
| 14   | 954       | 8.82          | 14.0              |              | 93.29                      |
| 15   | 1,207     | 18.23         | 22.9              |              | 95.38                      |
| 16   | 1,369     | 13.77         | 15.2              |              | 96.50                      |
| 17   | 1,418     | 9.82          | 10.5              |              | 96.84                      |
| 18   | 1,523     | 12.14         | 12.1              |              | 97.57                      |
| 19   | 1,712     | 12.96         | 11.5              |              | 98.88                      |
| 20   | 1,999     | 12.36         | 9.4               |              | 100.88                     |
| 21   | 2,372     | 11.65         | 7.4               |              | 102.29                     |
| 22   | 2,669     | 17.18         | 9.8               |              | 103.41                     |
| 23   | 3,124     | 10.23         | 5.0               |              | 104.82                     |
| 24   | 4,378     | 11.47         | 4.0               |              | 106.43                     |
| 25   | 5,100     | 15.46         | 4.6               |              | 107.35                     |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-09\2015-03-09\_004.xad


Created: 3/9/2015 4:31:39 PM  
 Modified: 3/9/2015 5:08:36 PM

### Electropherogram Summary Continued ...

#### ... Peak table for sample 8 : 40min MNase Check

| Peak | Size [bp] | Conc. [pg/ $\mu$ l] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------------|-------------------|--------------|----------------------------|
| 26   | 5,556     | 11.48               | 3.1               |              | 107.94                     |
| 27   | 7,359     | 24.36               | 5.0               |              | 110.13                     |
| 28   | 10,380    | 75.00               | 10.9              | Upper Marker | 113.00                     |
| 29   | 16,319    | 0.00                | 0.0               |              | 118.65                     |

#### Region table for sample 8 : 40min MNase Check

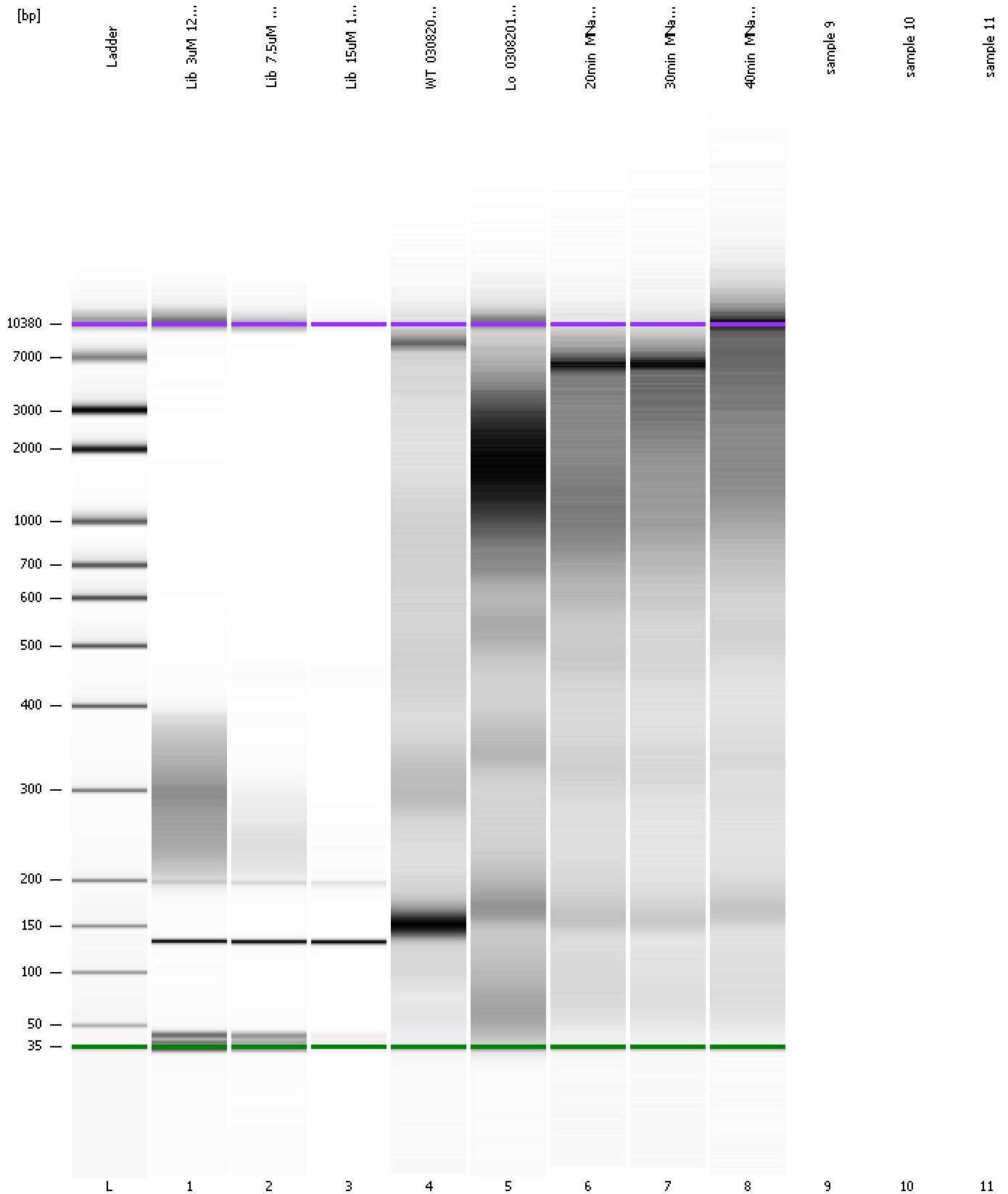
| From [bp] | Average Size [bp] | To [bp] | Corr. Area | Molarity [pmol/l] | % of Total | Size distribution in CV [%] | Conc. [pg/ $\mu$ l] | Color   |
|-----------|-------------------|---------|------------|-------------------|------------|-----------------------------|---------------------|---|
| 134       | 176               | 220     | 211.3      | 1,146.6           | 11         | 12.7                        | 130.74              |  |



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-09\2015-03-09\_004.xad

Created: 3/9/2015 4:31:39 PM  
Modified: 3/9/2015 5:08:36 PM

**Gel Image**



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-09\2015-03-09\_004.xad

Created: 3/9/2015 4:31:39 PM  
Modified: 3/9/2015 5:08:36 PM

**Invalid Samples**

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\2015-03-09\2015-03-09\_004.xad

Created: 3/9/2015 4:31:39 PM  
 Modified: 3/9/2015 5:08:36 PM

**Run Logbook**

| Description   | Number | Source     | Category | Sub Category | Time                | Time Zone                           | User     | Host     |
|---|--------|------------|----------|--------------|---------------------|-------------------------------------|----------|----------|
| Run ended on port 1 (Number of wells acquired: 9)   |        | Instrument | Run      |              | 3/9/2015 7:04:24 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-03-09\2015-03-09_004.xad) |        | Instrument | Run      |              | 3/9/2015 6:31:45 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Product Number : G2938B   |        | Instrument | Run      |              | 3/9/2015 6:31:45 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Name :  |        | Instrument | Run      |              | 3/9/2015 6:31:45 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Vendor : Agilent Technologies   |        | Instrument | Run      |              | 3/9/2015 6:31:45 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Serial# : DE13701086  |        | Instrument | Run      |              | 3/9/2015 6:31:45 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Firmware : C.01.069   |        | Instrument | Run      |              | 3/9/2015 6:31:45 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Cartridge : Electrode   |        | Instrument | Run      |              | 3/9/2015 6:31:45 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |