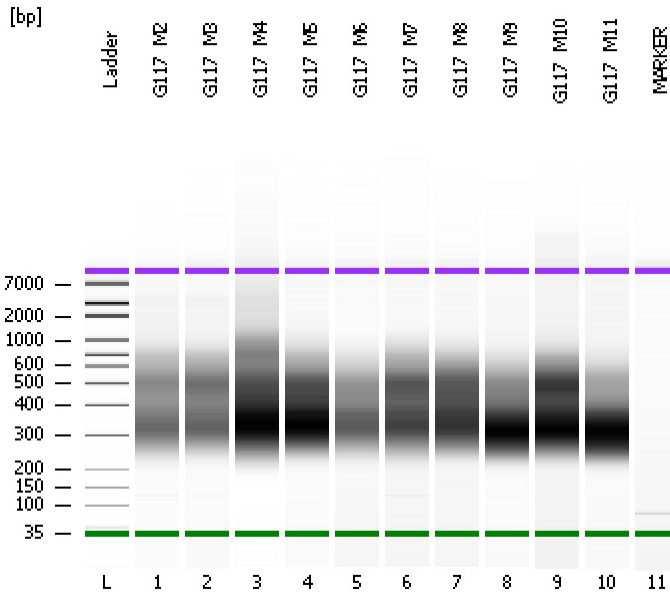


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...gh Sensitivity DNA Assay\_DE72900959\_2015-05-05\_11-35-38.xad

Created: 5/5/2015 11:35:38 AM  
Modified: 5/5/2015 12:16:10 PM

**Electrophoresis File Run Summary**



Instrument Information:

Instrument Name: DE72900959      Firmware: C.01.069  
Serial#: DE72900959      Type: G2939A

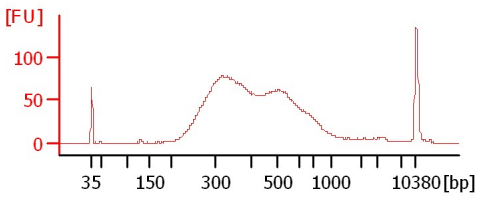
Assay Information:

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

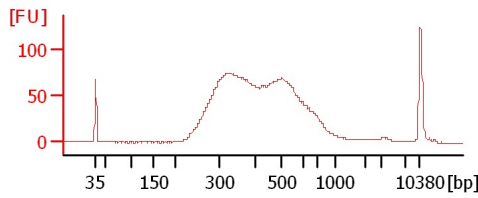
Chip Information:

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

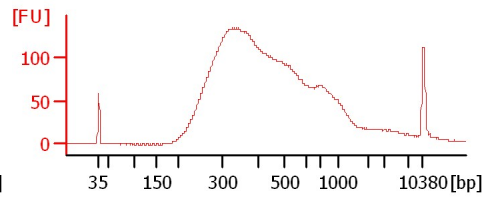
**G117\_M2**



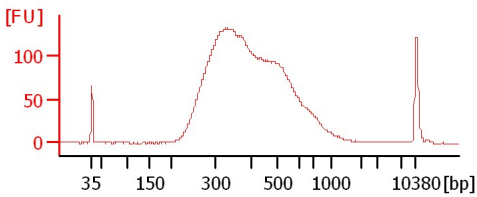
**G117\_M3**



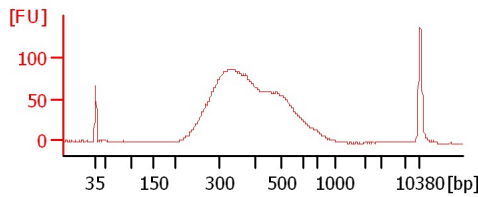
**G117\_M4**



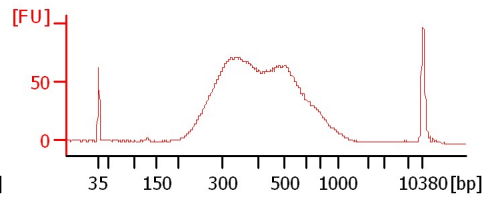
**G117\_M5**



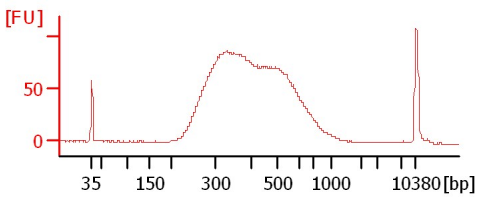
**G117\_M6**



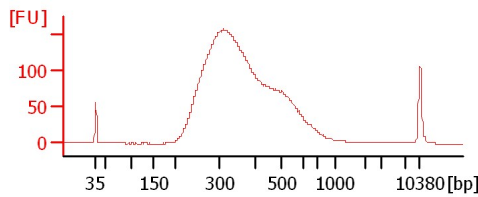
**G117\_M7**



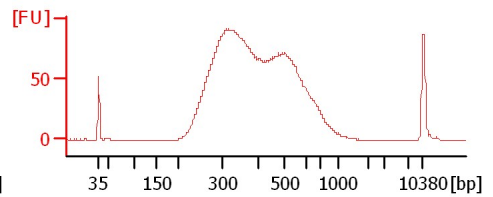
**G117\_M8**



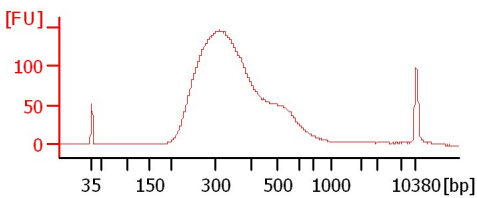
**G117\_M9**



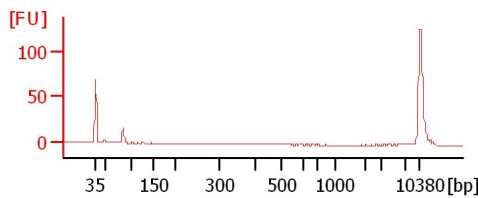
**G117\_M10**



**G117\_M11**



**MARKER**



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...gh Sensitivity DNA Assay\_DE72900959\_2015-05-05\_11-35-38.xad

Created: 5/5/2015 11:35:38 AM  
Modified: 5/5/2015 12:16:10 PM

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

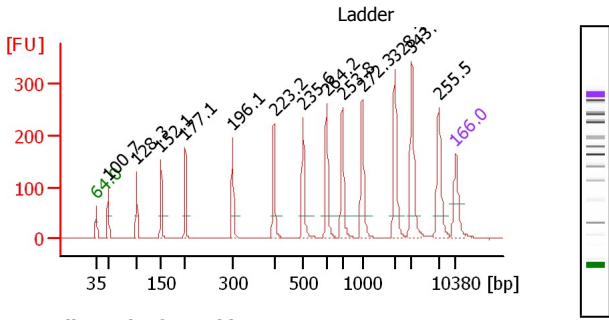
| Sample Name | Sample Comment | Rest. Digest             | Status | Observation | Result Label | Result Color |
|-------------|----------------|--------------------------|--------|-------------|--------------|--------------|
| G117_M2     |                | <input type="checkbox"/> |        | ✓           |              |              |
| G117_M3     |                | <input type="checkbox"/> |        | ✓           |              |              |
| G117_M4     |                | <input type="checkbox"/> |        | ✓           |              |              |
| G117_M5     |                | <input type="checkbox"/> |        | ✓           |              |              |
| G117_M6     |                | <input type="checkbox"/> |        | ✓           |              |              |
| G117_M7     |                | <input type="checkbox"/> |        | ✓           |              |              |
| G117_M8     |                | <input type="checkbox"/> |        | ✓           |              |              |
| G117_M9     |                | <input type="checkbox"/> |        | ✓           |              |              |
| G117_M10    |                | <input type="checkbox"/> |        | ✓           |              |              |
| G117_M11    |                | <input type="checkbox"/> |        | ✓           |              |              |
| MARKER      |                | <input type="checkbox"/> |        | ✓           |              |              |
| Ladder      |                | <input type="checkbox"/> |        | ✓           |              |              |

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

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE72900959\_2015-05-05\_11-35-38.xad

Created: 5/5/2015 11:35:38 AM  
 Modified: 5/5/2015 12:16:10 PM

**Electropherogram Summary**



**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  |

**Overall Results for Ladder**

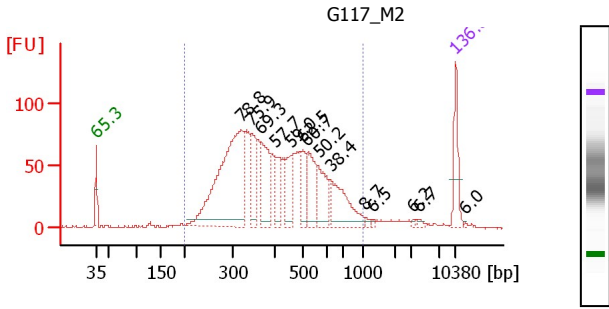
Noise: 0.3

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 14   | 7,000     | 150.00        | 32.5              | Ladder Peak  |
| 15   | 10,380    | 75.00         | 10.9              | Upper Marker |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE72900959\_2015-05-05\_11-35-38.xad

Created: 5/5/2015 11:35:38 AM  
 Modified: 5/5/2015 12:16:10 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : G117\_M2**

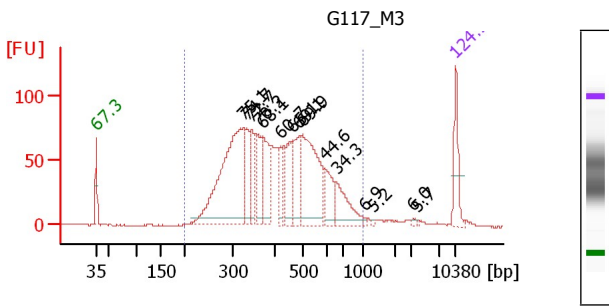
Number of peaks found: 14  
 Noise: 0.2  
 Corr. Area 1: 2,180.0

**Region table for sample 1 : G117\_M2**

| From [bp] | To [bp] | Corr. Area | % of Total | Average Size [bp] | Size distribution in CV [%] | Conc. [pg/μl] | Molarity [pmol/l] | Color |
|-----------|---------|------------|------------|-------------------|-----------------------------|---------------|-------------------|-------|
| 200       | 1,000   | 2,180.0    | 94         | 428               | 33.0                        | 2,211.09      | 8,970.3           | ■     |

**Peak table for sample 1 :**

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1    | 35        | 125.00        | 5,411.3           | Lower Marker |
| 2    | 321       | 692.86        | 3,270.2           |              |
| 3    | 345       | 139.80        | 614.0             |              |
| 4    | 370       | 195.54        | 801.8             |              |
| 5    | 404       | 87.11         | 326.8             |              |
| 6    | 457       | 101.42        | 335.9             |              |
| 7    | 500       | 76.94         | 233.3             |              |
| 8    | 520       | 134.05        | 390.7             |              |
| 9    | 564       | 110.89        | 298.0             |              |
| 10   | 623       | 159.15        | 387.0             |              |
| 11   | 1,116     | 7.51          | 10.2              |              |
| 12   | 1,316     | 4.07          | 4.7               |              |
| 13   | 3,328     | 2.66          | 1.2               |              |
| 14   | 4,121     | 4.71          | 1.7               |              |
| 15   | 10,380    | 75.00         | 10.9              | Upper Marker |
| 16   | 12,305    | 0.00          | 0.0               |              |



**Overall Results for sample 2 : G117\_M3**

Number of peaks found: 15  
 Noise: 0.4  
 Corr. Area 1: 2,103.2

**Region table for sample 2 : G117\_M3**

| From [bp] | To [bp] | Corr. Area | % of Total | Average Size [bp] | Size distribution in CV [%] | Conc. [pg/μl] | Molarity [pmol/l] | Color |
|-----------|---------|------------|------------|-------------------|-----------------------------|---------------|-------------------|-------|
| 200       | 1,000   | 2,103.2    | 96         | 432               | 31.0                        | 2,215.26      | 8,783.6           | ■     |

**Peak table for sample 2 :**

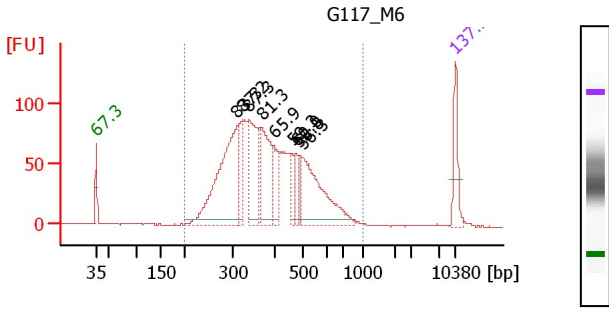
| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1    | 35        | 125.00        | 5,411.3           | Lower Marker |
| 2    | 325       | 615.05        | 2,869.1           |              |
| 3    | 334       | 104.06        | 472.7             |              |
| 4    | 346       | 92.73         | 406.1             |              |
| 5    | 362       | 90.86         | 380.1             |              |
| 6    | 374       | 143.32        | 580.6             |              |
| 7    | 425       | 59.88         | 213.4             |              |
| 8    | 463       | 109.24        | 357.1             |              |
| 9    | 487       | 131.97        | 410.9             |              |
| 10   | 499       | 325.03        | 986.7             |              |
| 11   | 590       | 87.59         | 224.8             |              |
| 12   | 661       | 114.19        | 261.8             |              |
| 13   | 1,069     | 3.67          | 5.2               |              |
| 14   | 1,319     | 2.73          | 3.1               |              |
| 15   | 3,278     | 3.88          | 1.8               |              |
| 16   | 3,852     | 2.49          | 1.0               |              |
| 17   | 10,380    | 75.00         | 10.9              | Upper Marker |



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE72900959\_2015-05-05\_11-35-38.xad

Created: 5/5/2015 11:35:38 AM  
 Modified: 5/5/2015 12:16:10 PM

**Electropherogram Summary Continued ...**



Peak table for sample 5 :

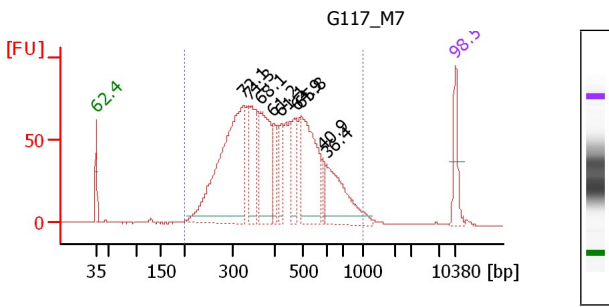
| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1    | 35        | 125.00        | 5,411.3           | Lower Marker |
| 2    | 312       | 513.50        | 2,496.5           |              |
| 3    | 323       | 118.24        | 554.3             |              |
| 4    | 341       | 233.44        | 1,038.5           |              |
| 5    | 371       | 200.56        | 818.2             |              |
| 6    | 400       | 100.08        | 379.4             |              |
| 7    | 464       | 44.28         | 144.6             |              |
| 8    | 477       | 43.92         | 139.6             |              |
| 9    | 487       | 46.08         | 143.4             |              |
| 10   | 499       | 297.80        | 904.5             |              |
| 11   | 10,380    | 75.00         | 10.9              | Upper Marker |

**Overall Results for sample 5 : G117\_M6**

Number of peaks found: 9  
 Noise: 0.3  
 Corr. Area 1: 2,050.8

**Region table for sample 5 : G117\_M6**

| From [bp] | To [bp] | Corr. Area | % of Total | Average Size [bp] | Size distribution in CV [%] | Conc. [pg/μl] | Molarity [pmol/l] | Color |
|-----------|---------|------------|------------|-------------------|-----------------------------|---------------|-------------------|-------|
| 200       | 1,000   | 2,050.8    | 98         | 401               | 28.2                        | 1,926.14      | 8,037.3           | Blue  |



Peak table for sample 6 :

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1    | 35        | 125.00        | 5,411.3           | Lower Marker |
| 2    | 327       | 756.87        | 3,508.0           |              |
| 3    | 341       | 213.73        | 949.1             |              |
| 4    | 367       | 279.35        | 1,152.8           |              |
| 5    | 399       | 70.42         | 267.4             |              |
| 6    | 426       | 63.84         | 226.8             |              |
| 7    | 476       | 129.68        | 413.1             |              |
| 8    | 496       | 327.65        | 1,000.7           |              |
| 9    | 584       | 34.24         | 88.9              |              |
| 10   | 600       | 217.88        | 550.6             |              |
| 11   | 10,380    | 75.00         | 10.9              | Upper Marker |

**Overall Results for sample 6 : G117\_M7**

Number of peaks found: 9  
 Noise: 0.3  
 Corr. Area 1: 2,023.2

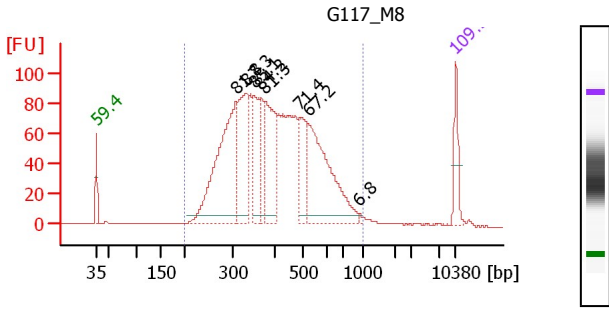
**Region table for sample 6 : G117\_M7**

| From [bp] | To [bp] | Corr. Area | % of Total | Average Size [bp] | Size distribution in CV [%] | Conc. [pg/μl] | Molarity [pmol/l] | Color |
|-----------|---------|------------|------------|-------------------|-----------------------------|---------------|-------------------|-------|
| 200       | 1,000   | 2,023.2    | 97         | 427               | 31.7                        | 2,547.62      | 10,262.8          | Blue  |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE72900959\_2015-05-05\_11-35-38.xad

Created: 5/5/2015 11:35:38 AM  
 Modified: 5/5/2015 12:16:10 PM

**Electropherogram Summary Continued ...**



**Peak table for sample 7 :**

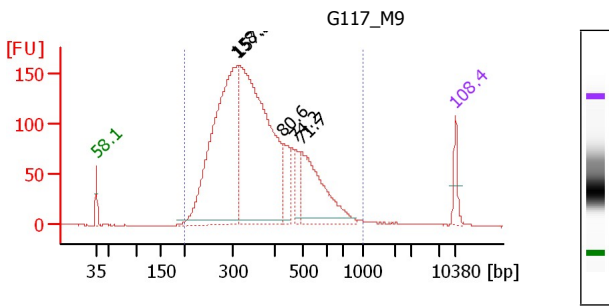
| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1    | 35        | 125.00        | 5,411.3           | Lower Marker |
| 2    | 308       | 677.85        | 3,336.9           |              |
| 3    | 332       | 358.19        | 1,635.3           |              |
| 4    | 352       | 207.61        | 893.5             |              |
| 5    | 369       | 116.32        | 477.6             |              |
| 6    | 379       | 295.84        | 1,181.4           |              |
| 7    | 489       | 170.99        | 529.9             |              |
| 8    | 522       | 490.64        | 1,424.8           |              |
| 9    | 963       | 5.04          | 7.9               |              |
| 10   | 10,380    | 75.00         | 10.9              | Upper Marker |

**Overall Results for sample 7 : G117\_M8**

Number of peaks found: 8  
 Noise: 0.3  
 Corr. Area 1: 2,371.9

**Region table for sample 7 : G117\_M8**

| From [bp] | To [bp] | Corr. Area | % of Total | Average Size [bp] | Size distribution in CV [%] | Conc. [pg/μl] | Molarity [pmol/l] | Color |
|-----------|---------|------------|------------|-------------------|-----------------------------|---------------|-------------------|-------|
| 200       | 1,000   | 2,371.9    | 97         | 420               | 30.3                        | 2,951.70      | 11,960.5          | ■     |



**Peak table for sample 8 :**

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1    | 35        | 125.00        | 5,411.3           | Lower Marker |
| 2    | 311       | 1,830.50      | 8,920.9           |              |
| 3    | 317       | 2,046.99      | 9,791.1           |              |
| 4    | 431       | 198.92        | 699.0             |              |
| 5    | 473       | 149.78        | 479.6             |              |
| 6    | 496       | 562.33        | 1,719.3           |              |
| 7    | 10,380    | 75.00         | 10.9              | Upper Marker |

**Overall Results for sample 8 : G117\_M9**

Number of peaks found: 5  
 Noise: 0.2  
 Corr. Area 1: 3,597.0

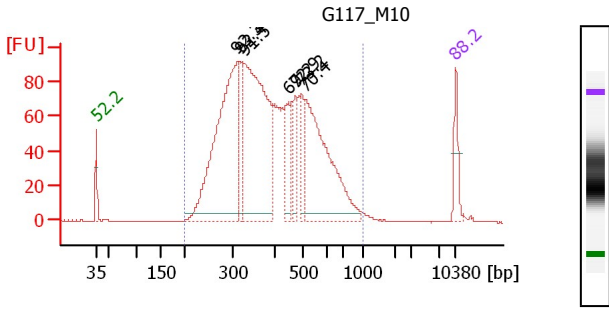
**Region table for sample 8 : G117\_M9**

| From [bp] | To [bp] | Corr. Area | % of Total | Average Size [bp] | Size distribution in CV [%] | Conc. [pg/μl] | Molarity [pmol/l] | Color |
|-----------|---------|------------|------------|-------------------|-----------------------------|---------------|-------------------|-------|
| 200       | 1,000   | 3,597.0    | 98         | 377               | 30.4                        | 4,906.78      | 21,913.6          | ■     |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE72900959\_2015-05-05\_11-35-38.xad

Created: 5/5/2015 11:35:38 AM  
 Modified: 5/5/2015 12:16:10 PM

**Electropherogram Summary Continued ...**



**Peak table for sample 9 :**

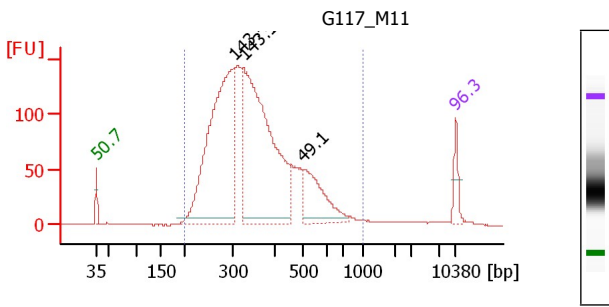
| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1    | 35        | 125.00        | 5,411.3           | Lower Marker |
| 2    | 312       | 1,060.61      | 5,145.3           |              |
| 3    | 318       | 189.79        | 903.7             |              |
| 4    | 329       | 1,032.45      | 4,759.6           |              |
| 5    | 450       | 150.52        | 506.3             |              |
| 6    | 474       | 88.24         | 282.2             |              |
| 7    | 496       | 94.37         | 288.1             |              |
| 8    | 511       | 662.69        | 1,963.4           |              |
| 9    | 10,380    | 75.00         | 10.9              | Upper Marker |

**Overall Results for sample 9 : G117 M10**

Number of peaks found: 7  
 Noise: 0.2  
 Corr. Area 1: 2,434.7

**Region table for sample 9 : G117 M10**

| From [bp] | To [bp] | Corr. Area | % of Total | Average Size [bp] | Size distribution in CV [%] | Conc. [pg/μl] | Molarity [pmol/l] | Color |
|-----------|---------|------------|------------|-------------------|-----------------------------|---------------|-------------------|-------|
| 200       | 1,000   | 2,434.7    | 97         | 414               | 31.2                        | 3,765.24      | 15,575.0          | ■     |



**Peak table for sample 10 :**

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1    | 35        | 125.00        | 5,411.3           | Lower Marker |
| 2    | 306       | 1,729.58      | 8,557.2           |              |
| 3    | 327       | 1,767.65      | 8,183.5           |              |
| 4    | 502       | 366.91        | 1,106.8           |              |
| 5    | 10,380    | 75.00         | 10.9              | Upper Marker |

**Overall Results for sample 10 : G117 M11**

Number of peaks found: 3  
 Noise: 0.2  
 Corr. Area 1: 3,201.9

**Region table for sample 10 : G117 M11**

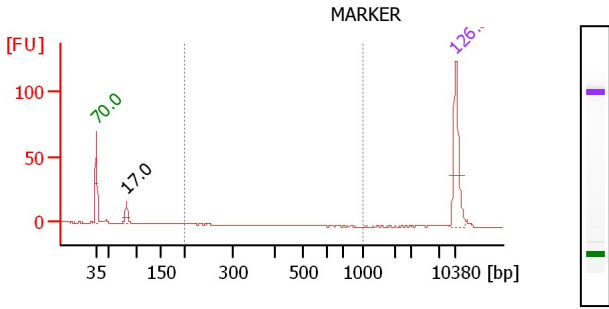
| From [bp] | To [bp] | Corr. Area | % of Total | Average Size [bp] | Size distribution in CV [%] | Conc. [pg/μl] | Molarity [pmol/l] | Color |
|-----------|---------|------------|------------|-------------------|-----------------------------|---------------|-------------------|-------|
| 200       | 1,000   | 3,201.9    | 97         | 364               | 30.4                        | 4,531.61      | 20,869.2          | ■     |



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE72900959\_2015-05-05\_11-35-38.xad

Created: 5/5/2015 11:35:38 AM  
 Modified: 5/5/2015 12:16:10 PM

**Electropherogram Summary Continued ...**



**Peak table for sample 11 :**

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1    | 35        | 125.00        | 5,411.3           | Lower Marker |
| 2    | 82        | 22.06         | 406.2             |              |
| 3    | 10,380    | 75.00         | 10.9              | Upper Marker |

**Overall Results for sample 11 :**

**MARKER**  
 Number of peaks found: 1  
 Noise: 0.1  
 Corr. Area 1: 0.0

**Region table for sample 11 :**

| From [bp] | To [bp] | Corr. Area | % of Total | Average Size [bp] | Size distribution in CV [%] | Conc. [pg/μl] | Molarity [pmol/l] | Color |
|-----------|---------|------------|------------|-------------------|-----------------------------|---------------|-------------------|-------|
| 200       | 1,000   | 0.0        | 0          | 0                 | 0.0                         | 0.00          | 0.0               | Blue  |

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...gh Sensitivity DNA Assay\_DE72900959\_2015-05-05\_11-35-38.xad

Created: 5/5/2015 11:35:38 AM  
Modified: 5/5/2015 12:16:10 PM

**Gel Image**

