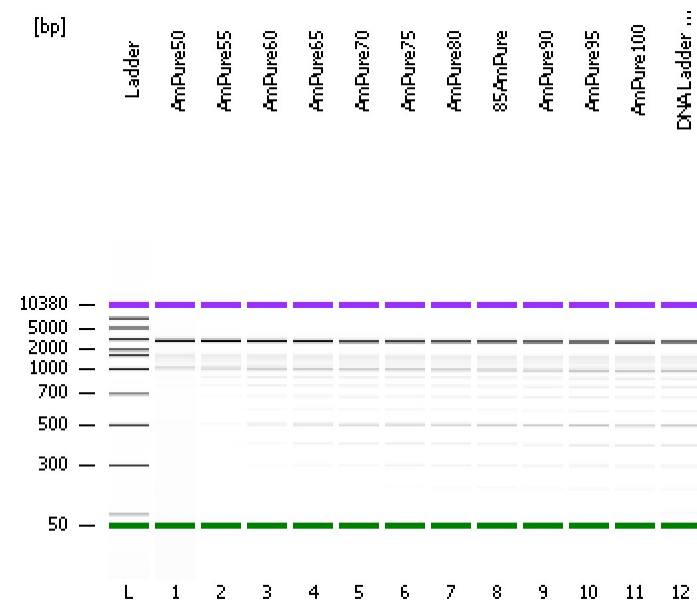


Assay Class: DNA 7500  
Data Path: D:\...ion\2100 expert\_DNA 7500\_DE24802235\_2011-09-22\_15-21-23.xad

Created: 9/22/2011 3:21:23 PM  
Modified: 9/22/2011 3:55:29 PM

### Electrophoresis File Run Summary



#### Instrument Information:

Instrument Name: Ann's baby  
Serial#: DE24802235  
Firmware: C.01.069  
Type: G2938B

#### Assay Information:

Assay Origin Path: D:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\dsDNA\DNA 7500 Series II.xsy

Assay Class: DNA 7500

Version: 2.3

Assay Comments: DNA Analysis 100 -7500 bp

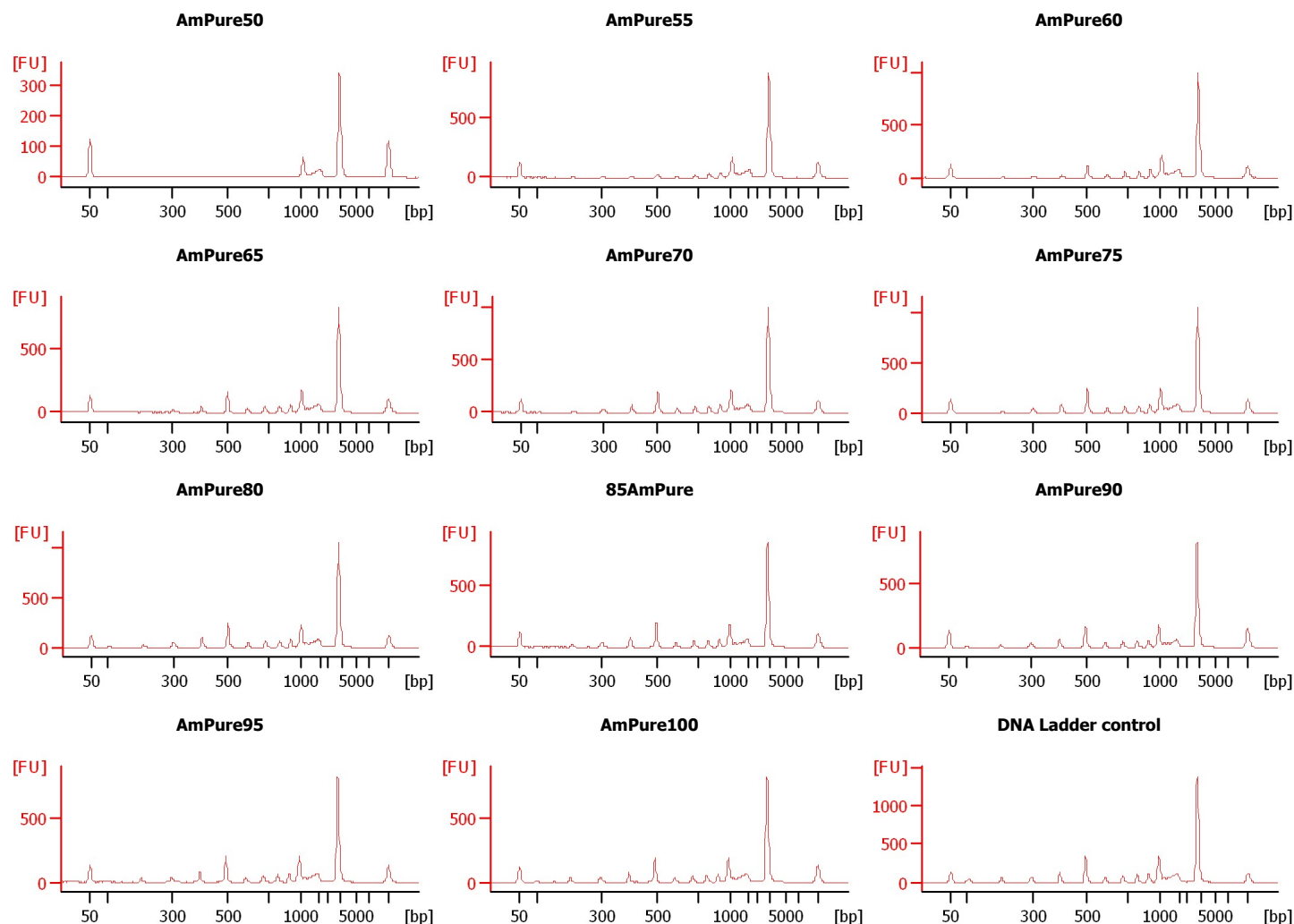
© Copyright 2003-2009 Agilent Technologies, Inc.

#### Chip Information:

Chip Lot #:

Reagent Kit Lot #:

Chip Comments:



Assay Class: DNA 7500  
Data Path: D:\...ion\2100 expert\_DNA 7500\_DE24802235\_2011-09-22\_15-21-23.xad

Created: 9/22/2011 3:21:23 PM  
Modified: 9/22/2011 3:55:29 PM

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

| Sample Name        | Sample Comment | Rest. Digest             | Status | Observation | Result Label | Result Color |
|--------------------|----------------|--------------------------|--------|-------------|--------------|--------------|
| AmPure50           |                | <input type="checkbox"/> | ✓      |             |              |              |
| AmPure55           |                | <input type="checkbox"/> | ✓      |             |              |              |
| AmPure60           |                | <input type="checkbox"/> | ✓      |             |              |              |
| AmPure65           |                | <input type="checkbox"/> | ✓      |             |              |              |
| AmPure70           |                | <input type="checkbox"/> | ✓      |             |              |              |
| AmPure75           |                | <input type="checkbox"/> | ✓      |             |              |              |
| AmPure80           |                | <input type="checkbox"/> | ✓      |             |              |              |
| 85AmPure           |                | <input type="checkbox"/> | ✓      |             |              |              |
| AmPure90           |                | <input type="checkbox"/> | ✓      |             |              |              |
| AmPure95           |                | <input type="checkbox"/> | ✓      |             |              |              |
| AmPure100          |                | <input type="checkbox"/> | ✓      |             |              |              |
| DNA Ladder control |                | <input type="checkbox"/> | ✓      |             |              |              |
| Ladder             |                | <input type="checkbox"/> | ✓      |             |              |              |

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

Assay Class: DNA 7500  
Data Path: D:\...ion\2100 expert\_DNA 7500\_DE24802235\_2011-09-22\_15-21-23.xad

Created: 9/22/2011 3:21:23 PM  
Modified: 9/22/2011 3:55:29 PM

## Electrophoresis Assay Details

### General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 13  
Minimum Visible Range [s] : 20  
Maximum Visible Range [s] : 94  
Start Analysis Time Range [s] : 20  
End Analysis Time Range [s] : 93.95  
Ladder Concentration [ng/μl] : 40  
Uses Standard Area for Ladder Fragments  
Lower Marker Concentration [ng/μl] : 8.3  
Upper Marker Concentration [ng/μl] : 4.2  
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] : 20  
Integration End Time [s] : 93.95  
Slope Threshold : 0.8  
Height Threshold [FU] : 20  
Area Threshold : 0.1  
Width Threshold [s] : 0.5  
Baseline Plateau [s] : 0.5

### Filter Settings

Filter Width [s] : 0.5  
Polynomial Order : 4

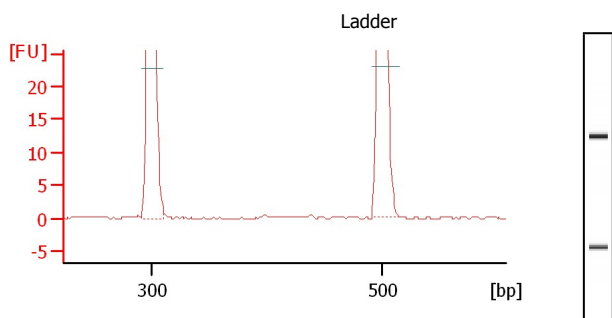
### Ladder

| Ladder Peak | Size  | Area |
|-------------|-------|------|
| 1           | 50    | 120  |
| 2           | 100   | 47   |
| 3           | 300   | 63   |
| 4           | 500   | 81   |
| 5           | 700   | 85   |
| 6           | 1000  | 93   |
| 7           | 1500  | 101  |
| 8           | 2000  | 101  |
| 9           | 3000  | 106  |
| 10          | 5000  | 108  |
| 11          | 7000  | 109  |
| 12          | 10380 | 107  |

Assay Class: DNA 7500  
 Data Path: D:\...ion\2100 expert\_DNA 7500\_DE24802235\_2011-09-22\_15-21-23.xad

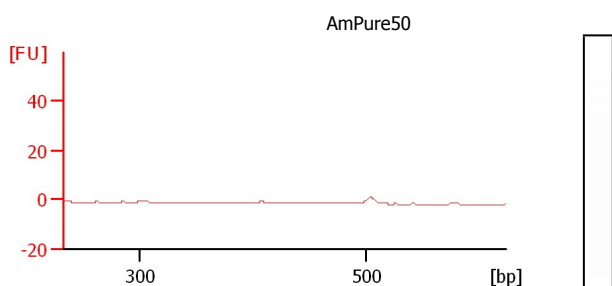
Created: 9/22/2011 3:21:23 PM  
 Modified: 9/22/2011 3:55:29 PM

### Electropherogram Summary



Peak table for Ladder

| Peak | Size [bp] | Conc. [ng/μl] | Molarity [nmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1    | 50        | 8.30          | 251.5             | Lower Marker |
| 2    | 100       | 4.00          | 60.6              | Ladder Peak  |
| 3    | 300       | 4.00          | 20.2              | Ladder Peak  |
| 4    | 500       | 4.00          | 12.1              | Ladder Peak  |
| 5    | 700       | 4.00          | 8.7               | Ladder Peak  |
| 6    | 1,000     | 4.00          | 6.1               | Ladder Peak  |
| 7    | 1,500     | 4.00          | 4.0               | Ladder Peak  |
| 8    | 2,000     | 4.00          | 3.0               | Ladder Peak  |
| 9    | 3,000     | 4.00          | 2.0               | Ladder Peak  |
| 10   | 5,000     | 4.00          | 1.2               | Ladder Peak  |
| 11   | 7,000     | 4.00          | 0.9               | Ladder Peak  |
| 12   | 10,380    | 4.20          | 0.6               | Upper Marker |

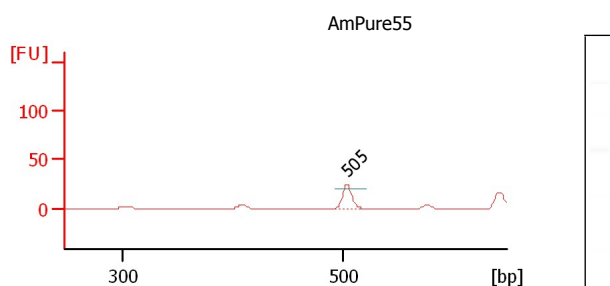


#### Overall Results for sample 1 : AmPure50

Number of peaks found: 3

#### Peak table for sample 1 : AmPure50

| Peak | Size [bp] | Conc. [ng/μl] | Molarity [nmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1    | 50        | 8.30          | 251.5             | Lower Marker |
| 2    | 1,047     | 2.06          | 3.0               |              |
| 3    | 1,513     | 1.59          | 1.6               |              |
| 4    | 2,884     | 9.65          | 5.1               |              |
| 5    | 10,380    | 4.20          | 0.6               | Upper Marker |



#### Overall Results for sample 2 : AmPure55

Number of peaks found: 8

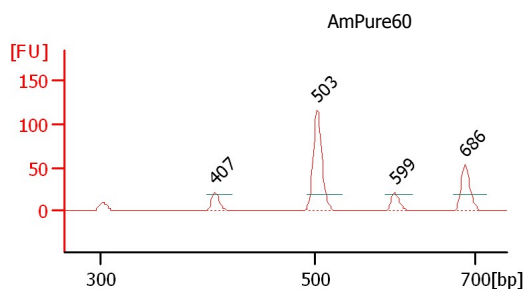
#### Peak table for sample 2 : AmPure55

| Peak | Size [bp] | Conc. [ng/μl] | Molarity [nmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1    | 50        | 8.30          | 251.5             | Lower Marker |
| 2    | 505       | 0.66          | 2.0               |              |
| 3    | 808       | 0.87          | 1.6               |              |
| 4    | 907       | 1.16          | 1.9               |              |
| 5    | 1,038     | 5.44          | 7.9               |              |
| 6    | 1,180     | 0.90          | 1.2               |              |
| 7    | 1,295     | 0.79          | 0.9               |              |
| 8    | 1,489     | 3.53          | 3.6               |              |
| 9    | 2,849     | 22.23         | 11.8              |              |
| 10   | 10,380    | 4.20          | 0.6               | Upper Marker |

Assay Class: DNA 7500  
 Data Path: D:\...ion\2100 expert\_DNA 7500\_DE24802235\_2011-09-22\_15-21-23.xad

Created: 9/22/2011 3:21:23 PM  
 Modified: 9/22/2011 3:55:29 PM

### Electropherogram Summary Continued ...



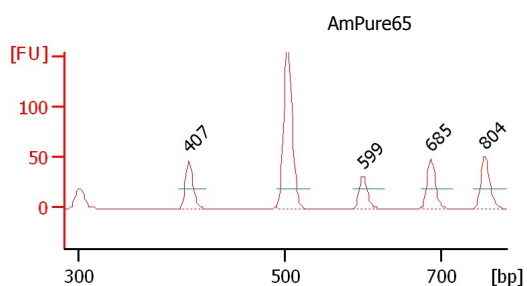
| Peak | Size [bp] | Conc. [ng/μl] | Molarity [nmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 13   | 10,380    | 4.20          | 0.6               | Upper Marker |

#### Overall Results for sample 3 : AmPure60

Number of peaks found: 11

#### Peak table for sample 3 : AmPure60

| Peak | Size [bp] | Conc. [ng/μl] | Molarity [nmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1    | 50        | 8.30          | 251.5             | Lower Marker |
| 2    | 407       | 0.63          | 2.3               |              |
| 3    | 503       | 3.39          | 10.2              |              |
| 4    | 599       | 0.57          | 1.4               |              |
| 5    | 686       | 1.54          | 3.4               |              |
| 6    | 803       | 1.86          | 3.5               |              |
| 7    | 906       | 2.20          | 3.7               |              |
| 8    | 1,017     | 7.99          | 11.9              |              |
| 9    | 1,163     | 1.19          | 1.6               |              |
| 10   | 1,282     | 1.20          | 1.4               |              |
| 11   | 1,492     | 5.17          | 5.3               |              |
| 12   | 2,830     | 28.71         | 15.4              |              |



| Peak | Size [bp] | Conc. [ng/μl] | Molarity [nmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 13   | 10,380    | 4.20          | 0.6               | Upper Marker |

#### Overall Results for sample 4 : AmPure65

Number of peaks found: 11

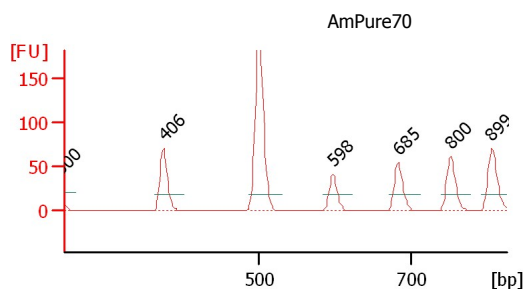
#### Peak table for sample 4 : AmPure65

| Peak | Size [bp] | Conc. [ng/μl] | Molarity [nmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1    | 50        | 8.30          | 251.5             | Lower Marker |
| 2    | 407       | 1.31          | 4.9               |              |
| 3    | 503       | 4.65          | 14.0              |              |
| 4    | 599       | 0.86          | 2.2               |              |
| 5    | 685       | 1.37          | 3.0               |              |
| 6    | 804       | 1.52          | 2.9               |              |
| 7    | 903       | 1.78          | 3.0               |              |
| 8    | 1,009     | 6.22          | 9.3               |              |
| 9    | 1,150     | 0.97          | 1.3               |              |
| 10   | 1,273     | 1.00          | 1.2               |              |
| 11   | 1,480     | 4.00          | 4.1               |              |
| 12   | 2,817     | 22.91         | 12.3              |              |

Assay Class: DNA 7500  
 Data Path: D:\...ion\2100 expert\_DNA 7500\_DE24802235\_2011-09-22\_15-21-23.xad

Created: 9/22/2011 3:21:23 PM  
 Modified: 9/22/2011 3:55:29 PM

### Electropherogram Summary Continued ...



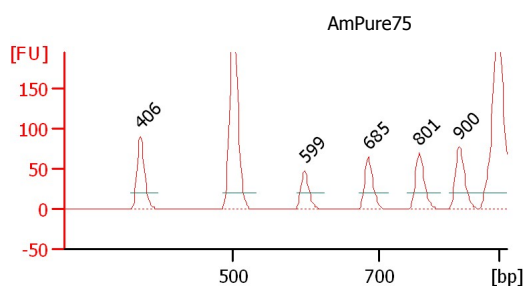
| Peak | Size [bp] | Conc. [ng/μl] | Molarity [nmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 13   | 10,380    | 4.20          | 0.6               | Upper Marker |

#### Overall Results for sample 5 : AmPure70

Number of peaks found: 11

#### Peak table for sample 5 : AmPure70

| Peak | Size [bp] | Conc. [ng/μl] | Molarity [nmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1    | 50        | 8.30          | 251.5             | Lower Marker |
| 2    | 300       | 1.32          | 6.7               |              |
| 3    | 406       | 2.00          | 7.5               |              |
| 4    | 501       | 5.66          | 17.1              |              |
| 5    | 598       | 1.08          | 2.7               |              |
| 6    | 685       | 1.53          | 3.4               |              |
| 7    | 800       | 1.74          | 3.3               |              |
| 8    | 899       | 2.05          | 3.5               |              |
| 9    | 999       | 7.07          | 10.7              |              |
| 10   | 1,132     | 1.17          | 1.6               |              |
| 11   | 1,462     | 4.71          | 4.9               |              |
| 12   | 2,787     | 26.85         | 14.6              |              |



| Peak | Size [bp] | Conc. [ng/μl] | Molarity [nmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 14   | 10,380    | 4.20          | 0.6               | Upper Marker |

#### Overall Results for sample 6 : AmPure75

Number of peaks found: 12

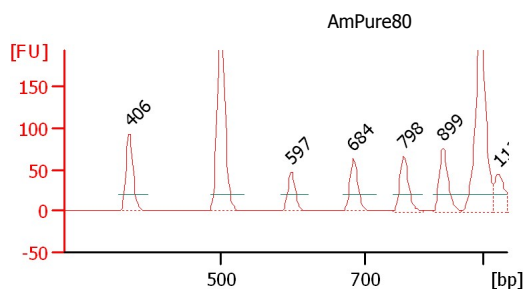
#### Peak table for sample 6 : AmPure75

| Peak | Size [bp] | Conc. [ng/μl] | Molarity [nmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1    | 50        | 8.30          | 251.5             | Lower Marker |
| 2    | 301       | 1.84          | 9.3               |              |
| 3    | 406       | 2.52          | 9.4               |              |
| 4    | 503       | 6.62          | 19.9              |              |
| 5    | 599       | 1.24          | 3.1               |              |
| 6    | 685       | 1.72          | 3.8               |              |
| 7    | 801       | 1.93          | 3.7               |              |
| 8    | 900       | 2.22          | 3.7               |              |
| 9    | 995       | 7.99          | 12.2              |              |
| 10   | 1,126     | 1.22          | 1.6               |              |
| 11   | 1,246     | 1.33          | 1.6               |              |
| 12   | 1,466     | 5.10          | 5.3               |              |
| 13   | 2,786     | 27.96         | 15.2              |              |

Assay Class: DNA 7500  
 Data Path: D:\...ion\2100 expert\_DNA 7500\_DE24802235\_2011-09-22\_15-21-23.xad

Created: 9/22/2011 3:21:23 PM  
 Modified: 9/22/2011 3:55:29 PM

### Electropherogram Summary Continued ...



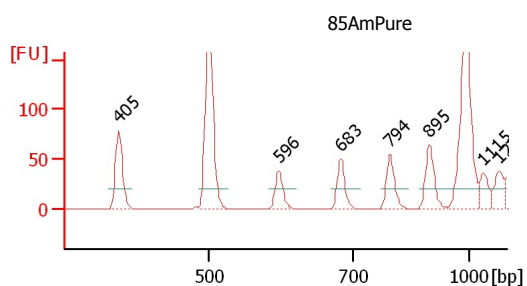
| Peak | Size [bp] | Conc. [ng/μl] | Molarity [nmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 14   | 2,780     | 28.69         | 15.6              |              |
| 15   | 10,380    | 4.20          | 0.6               | Upper Marker |

#### Overall Results for sample 7 : AmPure80

Number of peaks found: 13

#### Peak table for sample 7 : AmPure80

| Peak | Size [bp] | Conc. [ng/μl] | Molarity [nmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1    | 50        | 8.30          | 251.5             | Lower Marker |
| 2    | 207       | 0.79          | 5.8               |              |
| 3    | 301       | 2.11          | 10.6              |              |
| 4    | 406       | 2.67          | 10.0              |              |
| 5    | 501       | 6.74          | 20.4              |              |
| 6    | 597       | 1.24          | 3.2               |              |
| 7    | 684       | 1.75          | 3.9               |              |
| 8    | 798       | 1.90          | 3.6               |              |
| 9    | 899       | 2.16          | 3.6               |              |
| 10   | 993       | 7.81          | 11.9              |              |
| 11   | 1,120     | 1.27          | 1.7               |              |
| 12   | 1,242     | 1.29          | 1.6               |              |
| 13   | 1,455     | 5.05          | 5.3               |              |



| Peak | Size [bp] | Conc. [ng/μl] | Molarity [nmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 14   | 2,766     | 24.33         | 13.3              |              |
| 15   | 10,380    | 4.20          | 0.6               | Upper Marker |

#### Overall Results for sample 8 : 85AmPure

Number of peaks found: 13

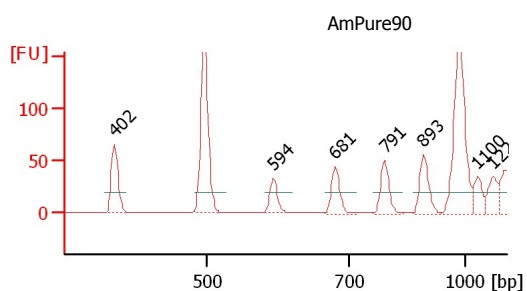
#### Peak table for sample 8 : 85AmPure

| Peak | Size [bp] | Conc. [ng/μl] | Molarity [nmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1    | 50        | 8.30          | 251.5             | Lower Marker |
| 2    | 208       | 0.91          | 6.7               |              |
| 3    | 300       | 1.87          | 9.4               |              |
| 4    | 405       | 2.31          | 8.6               |              |
| 5    | 499       | 5.69          | 17.3              |              |
| 6    | 596       | 1.06          | 2.7               |              |
| 7    | 683       | 1.44          | 3.2               |              |
| 8    | 794       | 1.61          | 3.1               |              |
| 9    | 895       | 1.89          | 3.2               |              |
| 10   | 990       | 6.57          | 10.1              |              |
| 11   | 1,115     | 1.04          | 1.4               |              |
| 12   | 1,238     | 1.09          | 1.3               |              |
| 13   | 1,443     | 4.21          | 4.4               |              |

Assay Class: DNA 7500  
 Data Path: D:\...ion\2100 expert\_DNA 7500\_DE24802235\_2011-09-22\_15-21-23.xad

Created: 9/22/2011 3:21:23 PM  
 Modified: 9/22/2011 3:55:29 PM

### Electropherogram Summary Continued ...



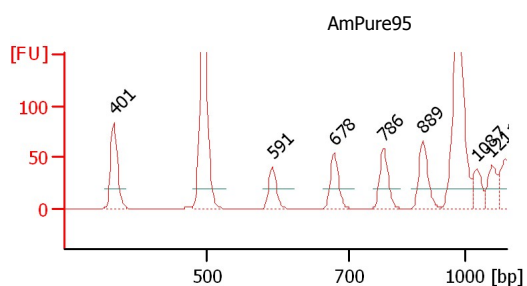
| Peak | Size [bp] | Conc. [ng/μl] | Molarity [nmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 14   | 2,770     | 18.44         | 10.1              |              |
| 15   | 10,380    | 4.20          | 0.6               | Upper Marker |

#### Overall Results for sample 9 : AmPure90

Number of peaks found: 13

#### Peak table for sample 9 : AmPure90

| Peak | Size [bp] | Conc. [ng/μl] | Molarity [nmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1    | 50        | 8.30          | 251.5             | Lower Marker |
| 2    | 205       | 0.65          | 4.8               |              |
| 3    | 299       | 1.18          | 6.0               |              |
| 4    | 402       | 1.49          | 5.6               |              |
| 5    | 498       | 3.74          | 11.4              |              |
| 6    | 594       | 0.71          | 1.8               |              |
| 7    | 681       | 0.99          | 2.2               |              |
| 8    | 791       | 1.13          | 2.2               |              |
| 9    | 893       | 1.29          | 2.2               |              |
| 10   | 985       | 4.62          | 7.1               |              |
| 11   | 1,100     | 0.75          | 1.0               |              |
| 12   | 1,224     | 0.77          | 1.0               |              |
| 13   | 1,441     | 3.11          | 3.3               |              |



| Peak | Size [bp] | Conc. [ng/μl] | Molarity [nmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 14   | 2,738     | 22.07         | 12.2              |              |
| 15   | 10,380    | 4.20          | 0.6               | Upper Marker |

#### Overall Results for sample 10 : AmPure95

Number of peaks found: 13

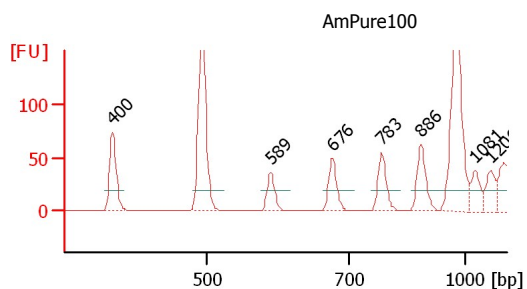
#### Peak table for sample 10 : AmPure95

| Peak | Size [bp] | Conc. [ng/μl] | Molarity [nmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1    | 50        | 8.30          | 251.5             | Lower Marker |
| 2    | 205       | 1.10          | 8.1               |              |
| 3    | 298       | 1.89          | 9.6               |              |
| 4    | 401       | 2.28          | 8.6               |              |
| 5    | 496       | 5.66          | 17.3              |              |
| 6    | 591       | 1.07          | 2.7               |              |
| 7    | 678       | 1.49          | 3.3               |              |
| 8    | 786       | 1.64          | 3.2               |              |
| 9    | 889       | 1.89          | 3.2               |              |
| 10   | 981       | 6.59          | 10.2              |              |
| 11   | 1,087     | 1.00          | 1.4               |              |
| 12   | 1,211     | 1.11          | 1.4               |              |
| 13   | 1,439     | 4.20          | 4.4               |              |

Assay Class: DNA 7500  
 Data Path: D:\...ion\2100 expert\_DNA 7500\_DE24802235\_2011-09-22\_15-21-23.xad

Created: 9/22/2011 3:21:23 PM  
 Modified: 9/22/2011 3:55:29 PM

### Electropherogram Summary Continued ...



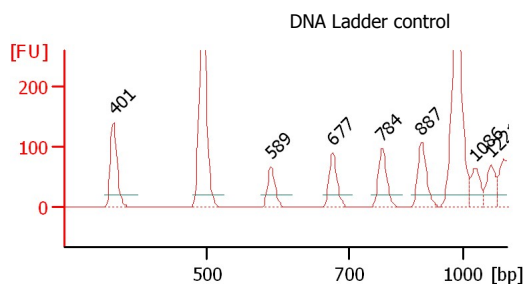
| Peak | Size [bp] | Conc. [ng/μl] | Molarity [nmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 14   | 2,728     | 20.61         | 11.4              |              |
| 15   | 10,380    | 4.20          | 0.6               | Upper Marker |

#### Overall Results for sample 11 : AmPure100

Number of peaks found: 13

#### Peak table for sample 11 : AmPure100

| Peak | Size [bp] | Conc. [ng/μl] | Molarity [nmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1    | 50        | 8.30          | 251.5             | Lower Marker |
| 2    | 205       | 0.94          | 6.9               |              |
| 3    | 297       | 1.55          | 7.9               |              |
| 4    | 400       | 1.89          | 7.2               |              |
| 5    | 495       | 4.74          | 14.5              |              |
| 6    | 589       | 0.88          | 2.3               |              |
| 7    | 676       | 1.25          | 2.8               |              |
| 8    | 783       | 1.39          | 2.7               |              |
| 9    | 886       | 1.60          | 2.7               |              |
| 10   | 979       | 5.58          | 8.6               |              |
| 11   | 1,081     | 0.92          | 1.3               |              |
| 12   | 1,206     | 1.02          | 1.3               |              |
| 13   | 1,434     | 3.71          | 3.9               |              |



| Peak | Size [bp] | Conc. [ng/μl] | Molarity [nmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 14   | 1,439     | 7.29          | 7.7               |              |
| 15   | 2,747     | 36.89         | 20.3              |              |
| 16   | 10,380    | 4.20          | 0.6               | Upper Marker |

#### Overall Results for sample 12 : DNA Ladder control

Number of peaks found: 14

#### Peak table for sample 12 : DNA Ladder control

| Peak | Size [bp] | Conc. [ng/μl] | Molarity [nmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1    | 50        | 8.30          | 251.5             | Lower Marker |
| 2    | 105       | 2.32          | 33.6              |              |
| 3    | 205       | 2.10          | 15.5              |              |
| 4    | 297       | 3.25          | 16.6              |              |
| 5    | 401       | 3.97          | 15.0              |              |
| 6    | 495       | 9.74          | 29.9              |              |
| 7    | 589       | 1.76          | 4.5               |              |
| 8    | 677       | 2.46          | 5.5               |              |
| 9    | 784       | 2.76          | 5.3               |              |
| 10   | 887       | 3.10          | 5.3               |              |
| 11   | 980       | 11.34         | 17.5              |              |
| 12   | 1,086     | 1.92          | 2.7               |              |
| 13   | 1,221     | 1.87          | 2.3               |              |

Assay Class: DNA 7500  
Data Path: D:\...ion\2100 expert\_DNA 7500\_DE24802235\_2011-09-22\_15-21-23.xad

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**Gel Image**