

| 2014-04-29_0 | 03.xad | | | | | Р | age 2 of 14 |
|--|---|----------------|-----------------------|-------------|------------------------------------|----|---------------------|
| Assay Class: Data Path: | High Sensitivity DNA Assay C:\ bioanalyzer\2100 expert\Data\ | _003.xad | Created: Modified: | | 2014 3:58:33 PM 2014 4:31:19 PM | | |
| Electrophores | is File Run Summary (Chip Sur | nmary) | | | | | |
| Sample Name | Sample Comment | Rest. Digest S | tatus | Observation | Result Lab | el | Result Color |
| sample 1 sample 2 sample 3 sample 4 sample 5 sample 6 sample 7 sample 8 sample 9 sample 10 sample 11 | | | **** | | | | |

Chip Lot #

Reagent Kit Lot #

Chip Comments :

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] : 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 |

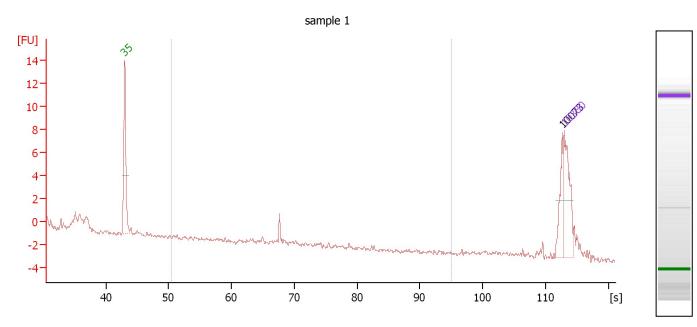
Created: 4/29/2014 3:58:33 PM Modified: 4/29/2014 4:31:19 PM

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Created: Modified:

4/29/2014 3:58:33 PM 4/29/2014 4:31:19 PM

Electropherogram Summary

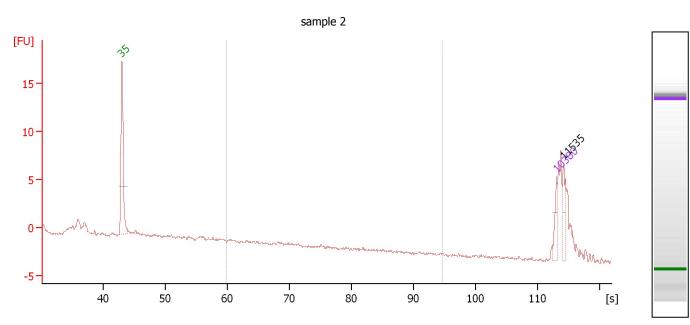


| Overall Re | sults for samp | ole 1 : <u>sample 1</u> | | | |
|-------------|----------------|-------------------------|-------------------|--------------|--|
| Number of p | eaks found: | 1 | Corr. Area 1: | 0.7 | |
| Noise: | | 0.2 | | | |
| | | | | | |
| Peak table | for sample 1 | : <u>sample 1</u> | | | |
| Peak | Size [bp] | Conc. [pg/µl] | Molarity [pmol/l] | Observations | |
| 1 🖣 | 35 | 125.00 | 5,411.3 | Lower Marker | |
| 2 | 10,073 | 48.49 | 7.3 | | |
| 4 | | | 10.9 | Upper Marker | |

| From [bp] | To [bp |] Average Size [bp] | Molarity [pmol/l] | Conc. [pg/µl] | Corr. Area | % of Total | Size distribution in CV [%] | Co Ior |
|--------------|--------|------------------------|----------------------|------------------|---------------|---------------|-----------------------------|-----------|
| 98 | 1,053 | 286 | 46.8 | 8.82 | 0.7 | 5 | 3.7 | |

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Electropherogram Summary Continued ...



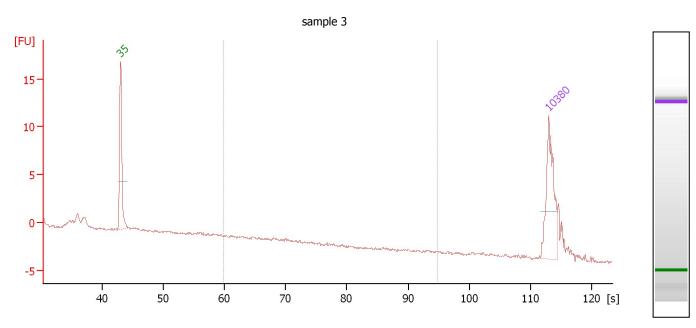
| Overall Results for sample 2 : <u>sample</u> | Overall | Results fo | r sample 2 | : | sample 2 |
|--|---------|------------|------------|---|----------|
|--|---------|------------|------------|---|----------|

| Number of peaks found: | 1 | Corr. Area 1: | 0.5 |
|------------------------|-----|---------------|-----|
| Noise: | 0.2 | | |
| | | | |

| Peak ta | able | for sample 2 : | sample 2 | | | | | |
|----------------------------|------|--------------------------------------|----------------------------------|----------------------------------|-----------------------------|---------------------------|--|-----------|
| Peak | | Size [bp] | Conc. [pg/µl] | Mola | rity [pmol | /I] | Observations | |
| 1 | | 35 | 125.00 | 5,411 | .3 | | Lower Marker | |
| 2 | | 10,380 | 75.00 | 10.9 | | | Upper Marker | |
| 3 | | 11,535 | 0.00 | 0.0 | | | | |
| Region | tab | le for sample 2 | : <u>sample 2</u> | | | | | |
| From [bp] 200 | | o [bp] Average S [bp] ,000 266 | ize Molarity [pmol/l] 99.9 | Conc. [pg/μl] 17.06 | Corr. Area 0.5 | % of Total 2 | Size distribution in CV [%] 19.1 | Co lor |

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Electropherogram Summary Continued ...



| Overall Results for sample 3 : <u>samp</u> | <u>le 3</u> |
|--|-------------|
|--|-------------|

| Number of | peaks found: | 0 | Corr. Area 1: | 1.7 |
|-------------------|-------------------------------|----------------------------------|------------------------------|-------------------------------------|
| Noise: | | 0.1 | | |
| | | | | |
| | | | | |
| Peak table | e for sample 3 : | sample 3 | | |
| Peak tabl Peak | e for sample 3 : Size [bp] | <u>sample 3</u> Conc. [pg/µl] | Molarity [pmol/l] | Observations |
| | • | | Molarity [pmol/l] 5,411.3 | Observations Lower Marker |

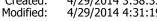
sample 3

| From [bp] | To [bp] |] Average Size [bp] | Molarity [pmol/l] | Conc. [pg/µl] | Corr. Area | % of Total | Size distribution in CV [%] | Co lor |
|--------------|---------|------------------------|----------------------|------------------|---------------|---------------|-----------------------------|-----------|
| 200 | 1,000 | 299 | 60.9 | 10.98 | 1.7 | 8 | 39.8 | |

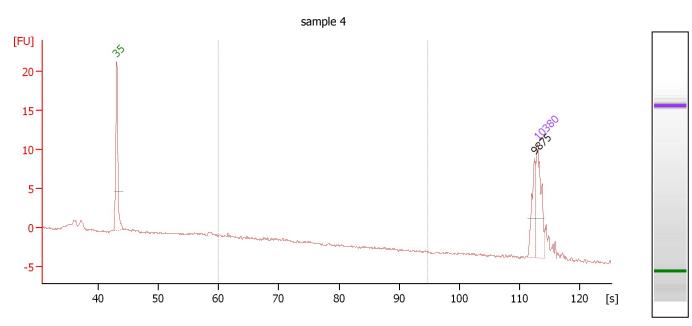
Region table for sample 3 :

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Electropherogram Summary Continued ...



| Overall Results for sample 4 : | sample 4 |
|--------------------------------|----------|
|--------------------------------|----------|

[bp]

355

1,000

[bp]

200

| Numbe Noise: | • | eaks found: | 1 0.1 | Corr. | Area 1: | | 12.8 | |
|-----------------|--------|-----------------|-------------------|-------------|-----------|------|----------------------|----|
| Peak | table | for sample 4 | : <u>sample 4</u> | | | | | |
| Peak | | Size [bp] | Conc. [pg/µl] | Molai | ity [pmol | /I] | Observations | |
| 1 | | 35 | 125.00 | 5,411. | 3 | | Lower Marker | |
| 2 3 | | 9,875 10,380 | 48.42 75.00 | 7.4 10.9 | | | Upper Marker | |
| Regio | on tab | le for sample | 4 : <u>sample</u> | <u>4</u> | | | | |
| From | Т | o [bp] Average | Size Molarity | Conc. | Corr. | % of | Size distribution in | Со |

[pg/µl]

118.14

[pmol/l]

593.5

Total

24

Area

12.8

CV [%]

40.4

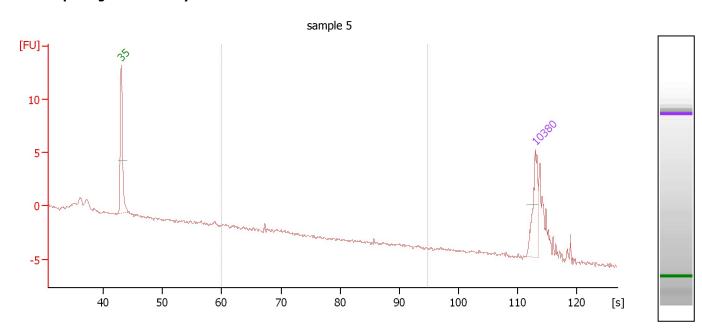
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Assay Class: High Sensitivity DNA Assay Data Path: C:\... bioanalyzer\2100 expert\Data\2014-04-29\2014-04-29_003.xad

Electropherogram Summary Continued ...



| Overall Results for sample 5 | : | sample 5 |
|------------------------------|---|----------|
|------------------------------|---|----------|

| Number of peaks found: | | 0 | Corr. Area 1: | 0.4 | | |
|------------------------|--------|---------------------------|------------------------------------|------------------------------|-------------------------------------|--|
| Noise: | Noise: | | 0.1 | | | |
| | | | | | | |
| | | | | | | |
| Peak t | table | for sample 5 | : <u>sample 5</u> | | | |
| Peak t Peak | table | for sample 5 Size [bp] | : <u>sample 5</u> Conc. [pg/µl] | Molarity [pmol/l] | Observations | |
| | table | • | | Molarity [pmol/l] 5,411.3 | Observations Lower Marker | |

| - | | | | | | | |
|--------------|------------------------------|----------------------|------------------|---------------|---------------|-----------------------------|-----------|
| Region | table for sample 5 : | sample 5 | | | | | |
| From [bp] | To [bp] Average Size [bp] | Molarity [pmol/l] | Conc. [pg/µl] | Corr. Area | % of Total | Size distribution in CV [%] | Co lor |
| 200 | 1,000 313 | 26.4 | 5.03 | 0.4 | 2 | 30.2 | |

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|----------------------------|--|-----------------------|--|
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| Electropher | ogram Summary Continued | | |
| | sample 6 | | |
| [FU] 12- 10- | 0 | | |

| Overall | Results | for | sam | ole 6 | : | sample 6 | |
|---------|---------|-----|-----|-------|---|----------|--|

1 60

т 50

1 40

8-6-2-0--2--4--6-

| Number | Number of peaks found: | | 0 | Noise: | 0.1 | |
|----------------|------------------------|-----------------------------|----------------------------------|-------------------|--------------|--|
| Peak t Peak | able | for sample 6 : Size [bp] | <u>sample 6</u> Conc. [pg/µl] | Molarity [pmol/l] | Observations | |
| 1 | • | 0 | 0.00 | 0.0 | Lower Marker | |

т 70 80

90

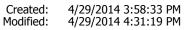
100

110

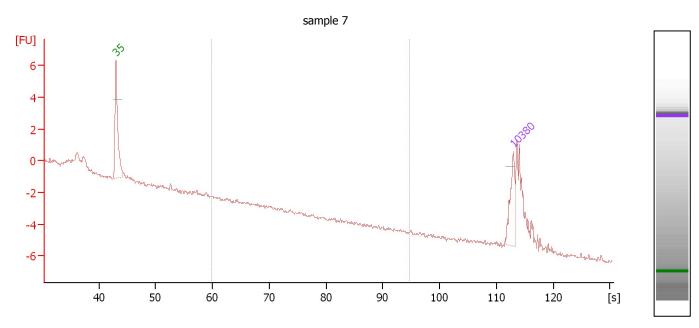
120

130

[s]



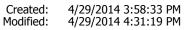
Electropherogram Summary Continued ...



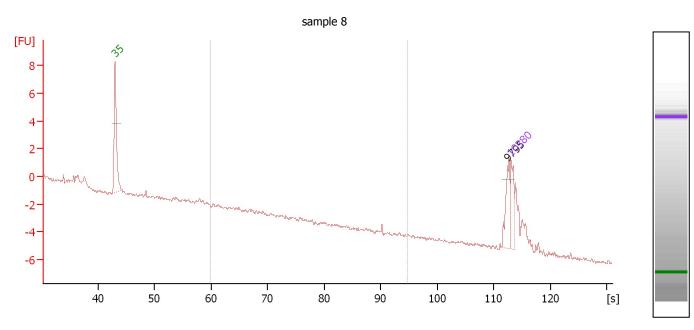
| Overall Results for sample 7 : | sample 7 |
|--------------------------------|------------|
| | ballipie / |

| Number of peaks found: Noise: | | eaks found: | 0 0.1 | Corr. Area 1: | 0.0 |
|----------------------------------|-------|----------------------------------|--------------------------------------|-------------------|------------------------------|
| Peak Peak | table | e for sample 7 : Size [bp] | <u>sample 7</u> Conc. [pg/µl] | Molarity [pmol/l] | Observations |
| 1 2 Regio | n tał | 35 10,380 Die for sample 7 | 125.00 75.00 : <u>sample 7</u> | 5,411.3 10.9 | Lower Marker Upper Marker |

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



Electropherogram Summary Continued ...



| Noise: | 0.1 | | |
|-------------------------|------------|--|--|
| Peak table for sample 8 | : sample 8 | | |

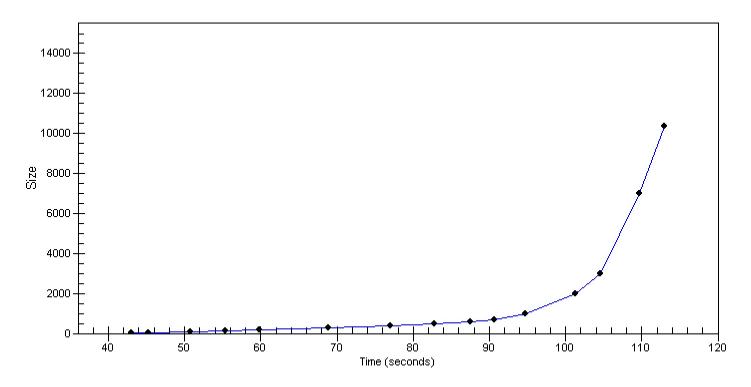
| Peak | | Size [bp] | Conc. [pg/µl] | Mola | rity [pmol/ | 'I] | Observations | |
|--------|-----|---------------------|---------------|---------|-------------|-------|----------------------|-----|
| 1 | | 35 | 125.00 | 5,411. | .3 | | Lower Marker | |
| 2 | | 9,795 | 102.16 | 15.8 | | | | |
| 3 | | 10,380 | 75.00 | 10.9 | | | Upper Marker | |
| Region | tab | le for sample 8: | sample 8 | | | | | |
| From | Т | o [bp] Average Size | e Molarity | Conc. | Corr. | % of | Size distribution in | Со |
| [bp] | | [bp] | [pmol/l] | [pg/µl] | Area | Total | CV [%] | lor |
| 200 | 1, | .000 685 | 0.8 | 0.36 | 0.0 | 0 | 0.1 | |

| Assay Class Data Path: Gel Imag | | High Sensitivity DNA Assay C:\ bioanalyzer\2100 expert\Data\2014-04-29\2014-04-29_003.xad | | | | | | | | | 4/29/2014 3:58:33 PM 4/29/2014 4:31:19 PM | |
|--|--------|--|----------|----------|----------|----------|----------|----------|----------|----------|--|-----------|
| [2] | Ladder | sample 1 | sample 2 | sample 3 | sample 4 | sample 5 | sample 6 | sample 7 | sample 8 | sample 9 | sample 10 | sample 11 |
| 138 — 136 — 134 — 132 — | | | | | | | | | | | | |
| 130 — 128 — 126 — 124 — | | | | | | | | | | | | |
| 122 — 120 — 118 — 116 — | | | | | | | | | | | | |
| 114 — 112 — 110 — — | | | | _ | | _ | | | | | | |
| 108 — 106 — 104 — 102 — | - | | | | | | | | | | | |
| 100 — 98 — 96 — 94 — | | | | | | | | | | | | |
| 92 — 90 — 88 — | _ | | | | | | | | | | | |
| 86 — 84 — 82 — 80 — | - | - | | | | | | | | | | |
| 78 — 76 — 74 — 72 — | _ | - | | | | | | | | | | |
| 70 — 68 — 66 — | - | - | | | | | | | | | | |
| 64 — 62 — 60 — — 58 — | | - | | | | | | | | | | |
| 56 — 54 — 52 — 50 — | | | | | | | _ | | | | | |
| 48 — 46 — 44 — | | _ | | | | | _ | | | | | |
| 42 — 40 — 38 — 36 — | | | | | | | | | | | | |
| 34 — 32 — | L | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |

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|--------------|--|-----------|----------------------|
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Curves

Standard Curve



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.

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