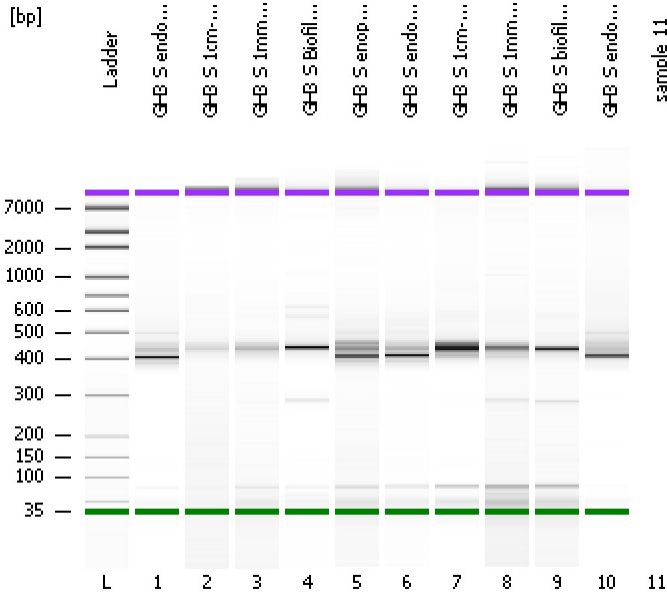


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-11\2012-04-11_003.xad

Created: 4/11/2012 11:18:47 AM
Modified: 4/11/2012 11:58:52 AM

Electrophoresis File Run Summary



Instrument Information:

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

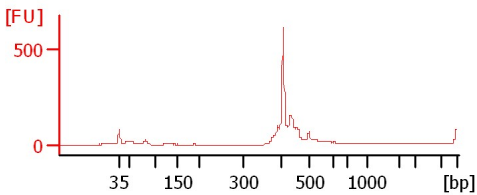
Assay Information:

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

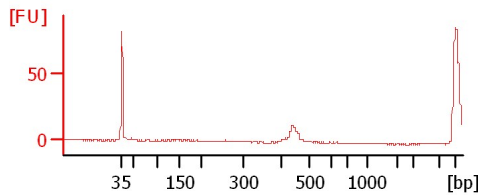
Chip Information:

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

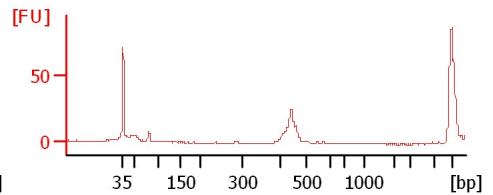
GH3 S endophyte 1-2 T34



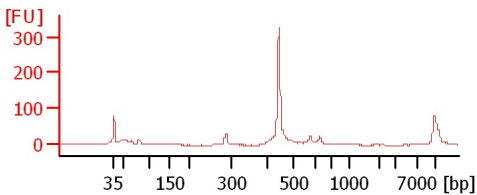
GH3 S 1cm-2 T10



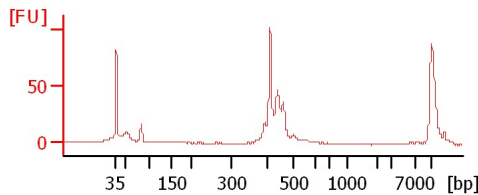
GH3 S 1mm-2 T12



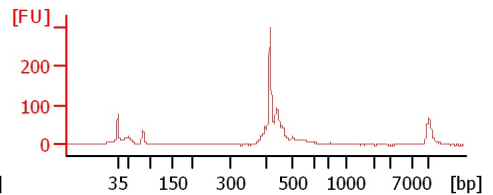
GH3 S Biofilm2-2 T16



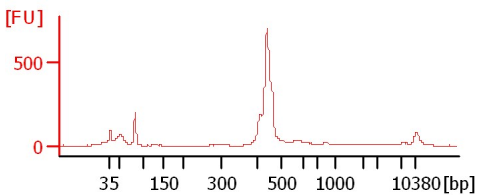
GH3 S enophte 2-1 T35



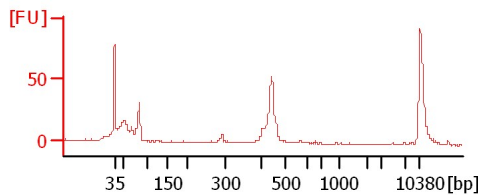
GH3 S endophyte 2-2 T36



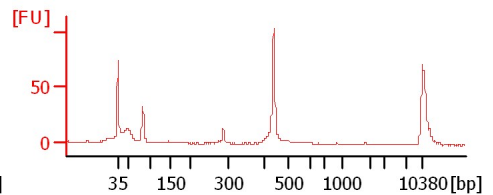
GH3 S 1cm-3 T18



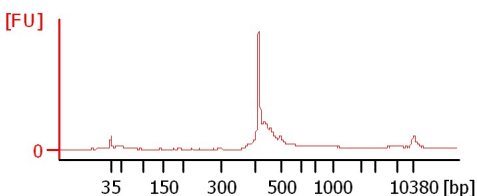
GH3 S 1mm-3 T20



GH3 S biofilm3-1 T23



GH3 S endophyte 4-1 T39



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-11\2012-04-11_003.xad

Created: 4/11/2012 11:18:47 AM
Modified: 4/11/2012 11:58:52 AM

Electrophoresis File Run Summary (Chip Summary)

| Sample Name | Sample Comment | Rest. Digest | Status | Observation | Result Label | Result Color |
|-------------------------|----------------|--------------------------|--------|-------------|--------------|--------------|
| GH3 S endophyte 1-2 T34 | | <input type="checkbox"/> | ✓ | | | |
| GH3 S 1cm-2 T10 | | <input type="checkbox"/> | ✓ | | | |
| GH3 S 1mm-2 T12 | | <input type="checkbox"/> | ✓ | | | |
| GH3 S Biofilm2-2 T16 | | <input type="checkbox"/> | ✓ | | | |
| GH3 S enophte 2-1 T35 | | <input type="checkbox"/> | ✓ | | | |
| GH3 S endophyte 2-2 T36 | | <input type="checkbox"/> | ✓ | | | |
| GH3 S 1cm-3 T18 | | <input type="checkbox"/> | ✓ | | | |
| GH3 S 1mm-3 T20 | | <input type="checkbox"/> | ✓ | | | |
| GH3 S biofilm3-1 T23 | | <input type="checkbox"/> | ✓ | | | |
| GH3 S endophyte 4-1 T39 | | <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\2012-04-11\2012-04-11_003.xad

Created: 4/11/2012 11:18:47 AM
Modified: 4/11/2012 11:58:52 AM

Electrophoresis Assay Details

General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 12
Minimum Visible Range [s] : 32
Maximum Visible Range [s] : 138
Start Analysis Time Range [s] : 33
End Analysis Time Range [s] : 137.5
Ladder Concentration [pg/μl] : 1950
Uses Standard Area for Ladder Fragments
Lower Marker Concentration [pg/μl] : 125
Upper Marker Concentration [pg/μl] : 75
Used Upper Marker for Quantitation
Standard Curve Fit is Point to Point
Show Data Aligned to Lower and Upper Marker

Integrator Settings

Integration Start Time [s] : 33.05
Integration End Time [s] : 137
Slope Threshold : 0.8
Height Threshold [FU] : 20
Area Threshold : 0.1
Width Threshold [s] : 0.6
Baseline Plateau [s] : 0.5

Filter Settings

Filter Width [s] : 0.5
Polynomial Order : 4

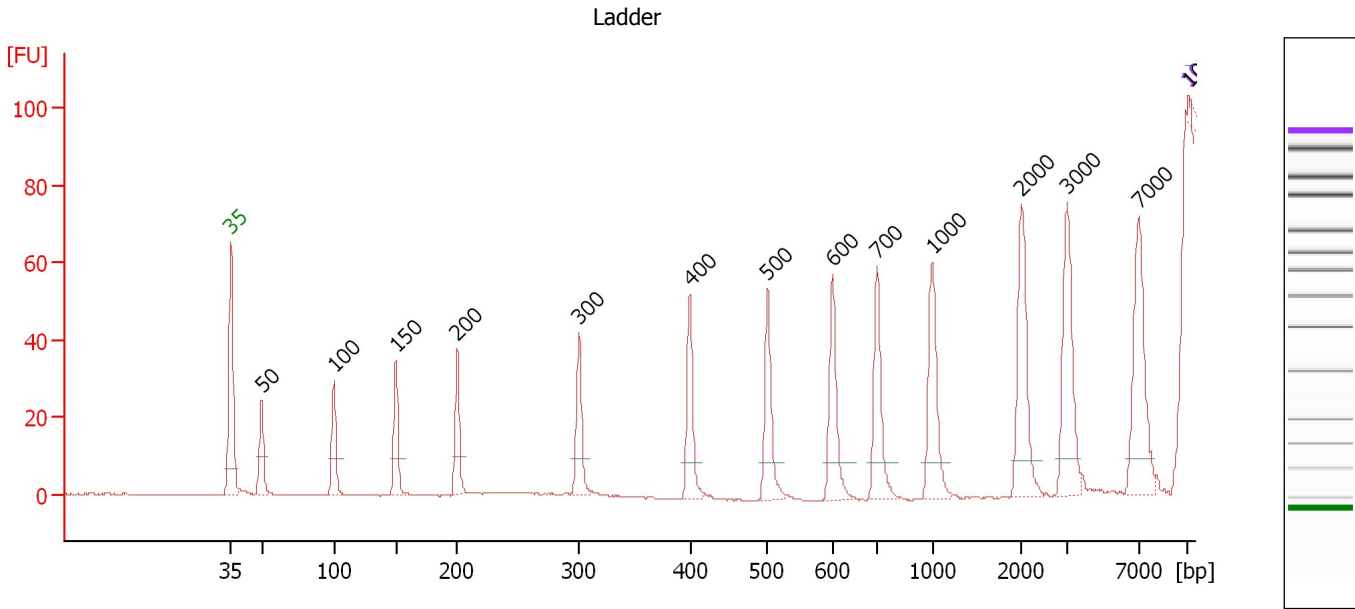
Ladder

| 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\2012-04-11\2012-04-11_003.xad

Created: 4/11/2012 11:18:47 AM
 Modified: 4/11/2012 11:58:52 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

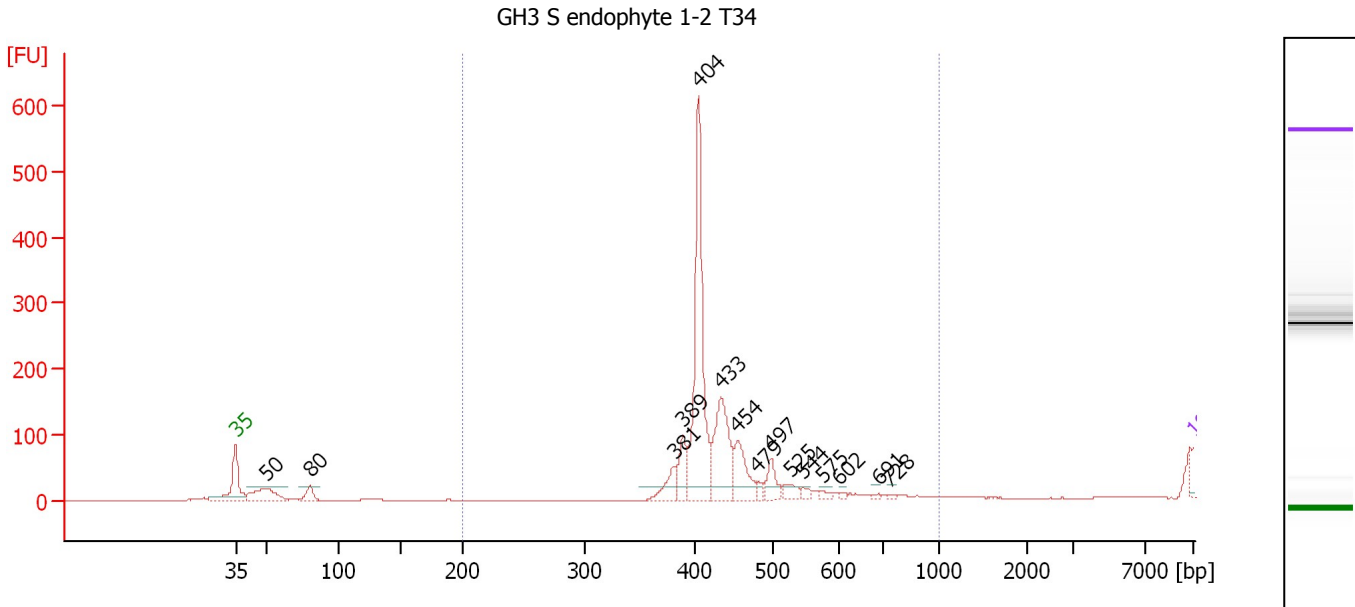
Peak table for Ladder

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 50 | 150.00 | 4,545.5 | Ladder Peak |
| 3 | 100 | 150.00 | 2,272.7 | Ladder Peak |
| 4 | 150 | 150.00 | 1,515.2 | Ladder Peak |
| 5 | 200 | 150.00 | 1,136.4 | Ladder Peak |
| 6 | 300 | 150.00 | 757.6 | Ladder Peak |
| 7 | 400 | 150.00 | 568.2 | Ladder Peak |
| 8 | 500 | 150.00 | 454.5 | Ladder Peak |
| 9 | 600 | 150.00 | 378.8 | Ladder Peak |
| 10 | 700 | 150.00 | 324.7 | Ladder Peak |
| 11 | 1,000 | 150.00 | 227.3 | Ladder Peak |
| 12 | 2,000 | 150.00 | 113.6 | Ladder Peak |
| 13 | 3,000 | 150.00 | 75.8 | Ladder Peak |
| 14 | 7,000 | 150.00 | 32.5 | Ladder Peak |
| 15 | 10,380 | 75.00 | 10.9 | Upper Marker |
| 16 | 10,490 | 0.00 | 0.0 | |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-11\2012-04-11_003.xad

Created: 4/11/2012 11:18:47 AM
 Modified: 4/11/2012 11:58:52 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : GH3 S endophyte 1-2 T34

Number of peaks found: 15 Corr. Area 1: 793.5
 Noise: 0.2

Peak table for sample 1 : GH3 S endophyte 1-2 T34

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 50 | 199.97 | 6,022.5 | |
| 3 | 80 | 67.80 | 1,278.2 | |
| 4 | 381 | 112.08 | 445.6 | |
| 5 | 389 | 143.30 | 558.5 | |
| 6 | 404 | 868.37 | 3,258.1 | |
| 7 | 433 | 398.71 | 1,394.5 | |
| 8 | 454 | 197.79 | 660.5 | |
| 9 | 479 | 27.09 | 85.7 | |
| 10 | 497 | 95.54 | 291.0 | |
| 11 | 525 | 48.13 | 138.8 | |
| 12 | 544 | 23.77 | 66.2 | |
| 13 | 575 | 17.98 | 47.4 | |
| 14 | 602 | 9.45 | 23.8 | |
| 15 | 691 | 9.45 | 20.7 | |
| 16 | 728 | 6.43 | 13.4 | |
| 17 | 10,380 | 75.00 | 10.9 | Upper Marker |

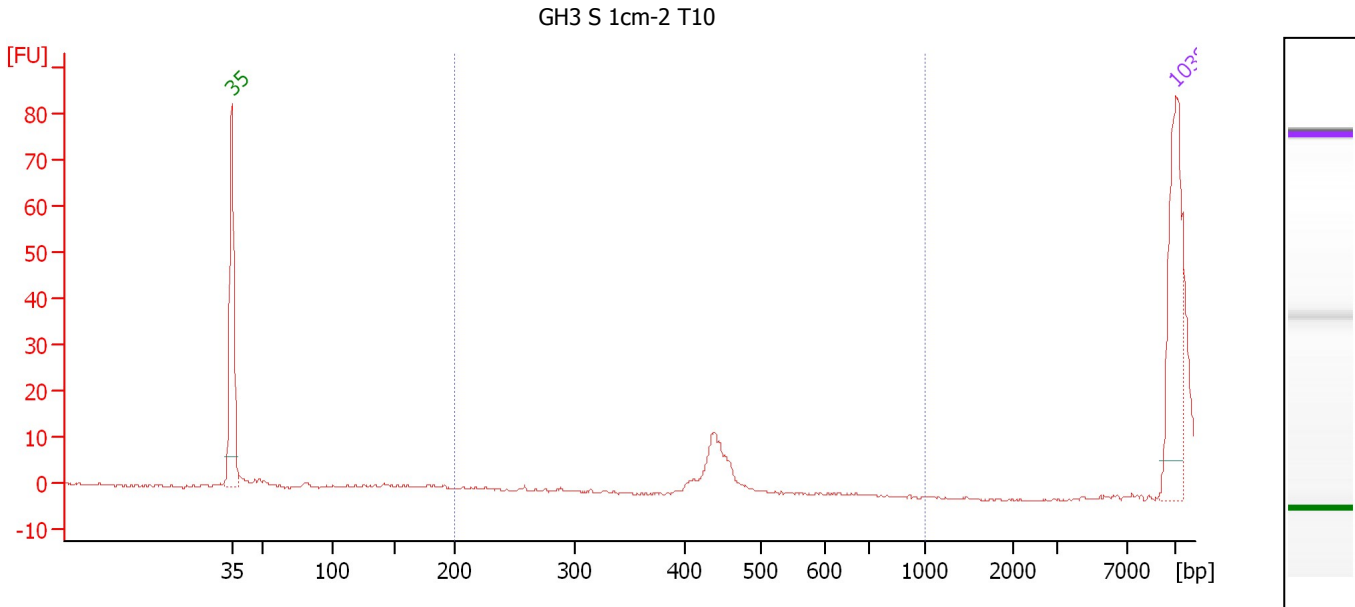
Region table for sample 1 : GH3 S endophyte 1-2 T34

| From [bp] | Molarity [pmol/l] | Average Size [bp] | Conc. [pg/μl] | To [bp] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|-------------------|-------------------|---------------|---------|------------|------------|-----------------------------|-------|
| 200 | 4,397.7 | 415 | 1,203.19 | 1,000 | 793.5 | 96 | 5.0 | Blue |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-11\2012-04-11_003.xad

Created: 4/11/2012 11:18:47 AM
 Modified: 4/11/2012 11:58:52 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : GH3 S 1cm-2 T10

Number of peaks found: 0 Corr. Area 1: 0.0
 Noise: 0.2

Peak table for sample 2 : GH3 S 1cm-2 T10

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

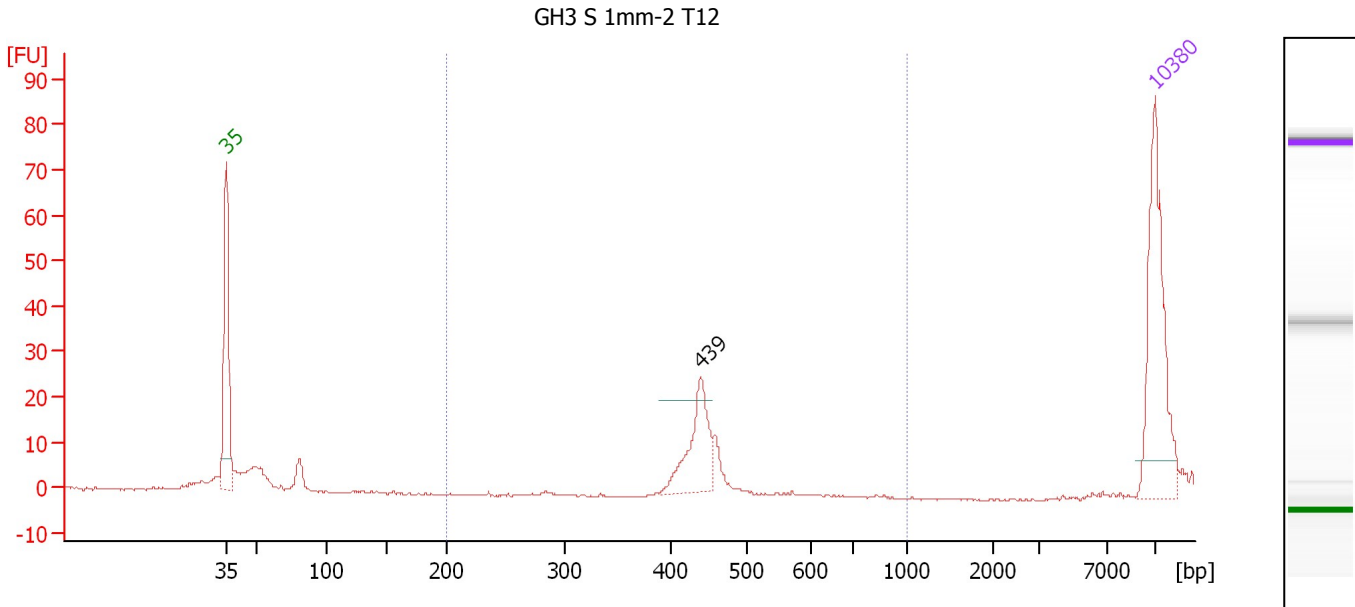
Region table for sample 2 : GH3 S 1cm-2 T10

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

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-11\2012-04-11_003.xad

Created: 4/11/2012 11:18:47 AM
 Modified: 4/11/2012 11:58:52 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : GH3 S 1mm-2 T12

Number of peaks found: 1 Corr. Area 1: 53.7
 Noise: 0.2

Peak table for sample 3 : GH3 S 1mm-2 T12

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 439 | 55.68 | 192.3 | |
| 3 | 10,380 | 75.00 | 10.9 | Upper Marker |

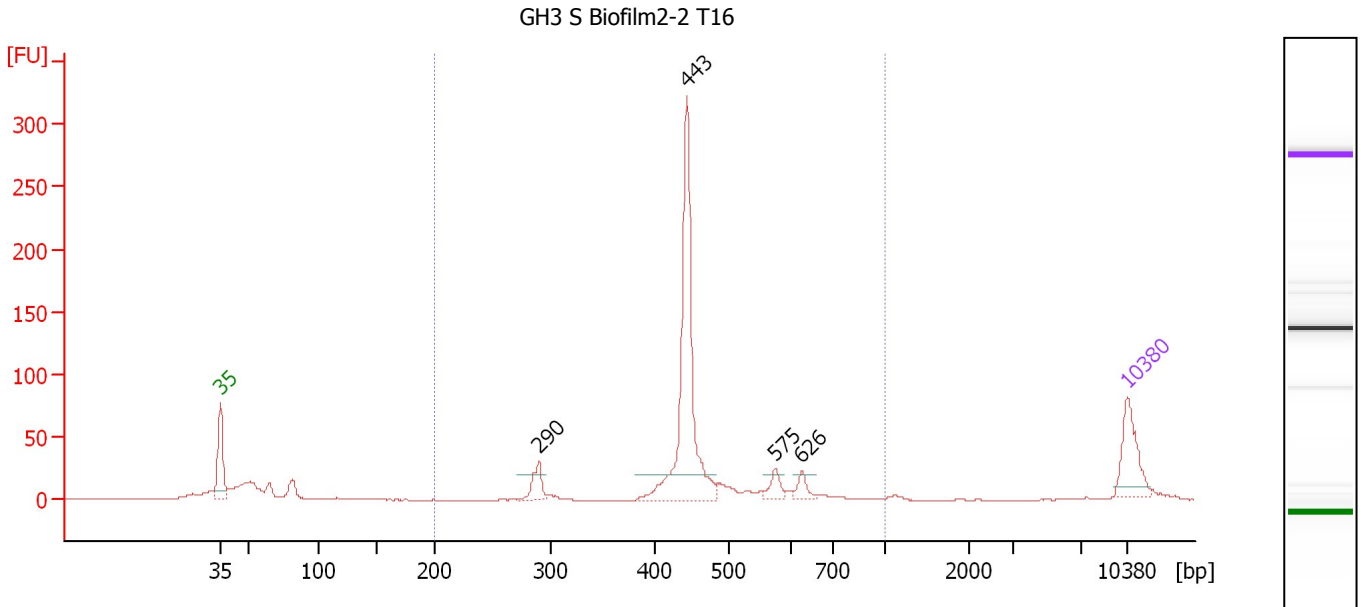
Region table for sample 3 : GH3 S 1mm-2 T12

| From [bp] | Molarity [pmol/l] | Average Size [bp] | Conc. [pg/μl] | To [bp] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|-------------------|-------------------|---------------|---------|------------|------------|-----------------------------|-------|
| 200 | 185.6 | 438 | 53.66 | 1,000 | 53.7 | 53 | 3.4 | Blue |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-11\2012-04-11_003.xad

Created: 4/11/2012 11:18:47 AM
 Modified: 4/11/2012 11:58:52 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : GH3 S Biofilm2-2 T16

Number of peaks found: 4 Corr. Area 1: 550.6
 Noise: 0.2

Peak table for sample 4 : GH3 S Biofilm2-2 T16

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 290 | 50.30 | 262.6 | |
| 3 | 443 | 471.04 | 1,610.8 | |
| 4 | 575 | 29.80 | 78.5 | |
| 5 | 626 | 23.02 | 55.7 | |
| 6 | 10,380 | 75.00 | 10.9 | Upper Marker |

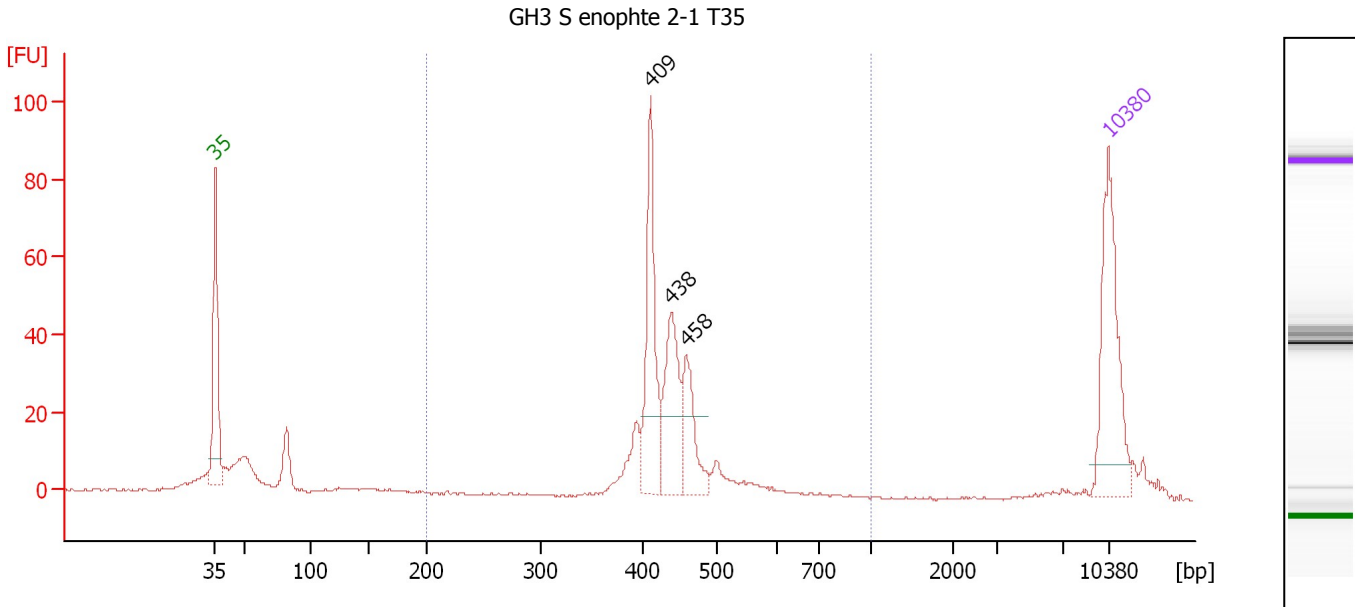
Region table for sample 4 : GH3 S Biofilm2-2 T16

| From [bp] | Molarity [pmol/l] | Average Size [bp] | Conc. [pg/μl] | To [bp] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|-------------------|-------------------|---------------|---------|------------|------------|-----------------------------|-------|
| 200 | 2,111.4 | 458 | 611.51 | 1,000 | 550.6 | 78 | 16.1 | Blue |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-11\2012-04-11_003.xad

Created: 4/11/2012 11:18:47 AM
 Modified: 4/11/2012 11:58:52 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : GH3 S enophte 2-1 T35

Number of peaks found: 3 Corr. Area 1: 295.2
 Noise: 0.3

Peak table for sample 5 : GH3 S enophte 2-1 T35

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 409 | 97.24 | 360.0 | |
| 3 | 438 | 72.27 | 250.1 | |
| 4 | 458 | 46.82 | 154.8 | |
| 5 | 10,380 | 75.00 | 10.9 | Upper Marker |

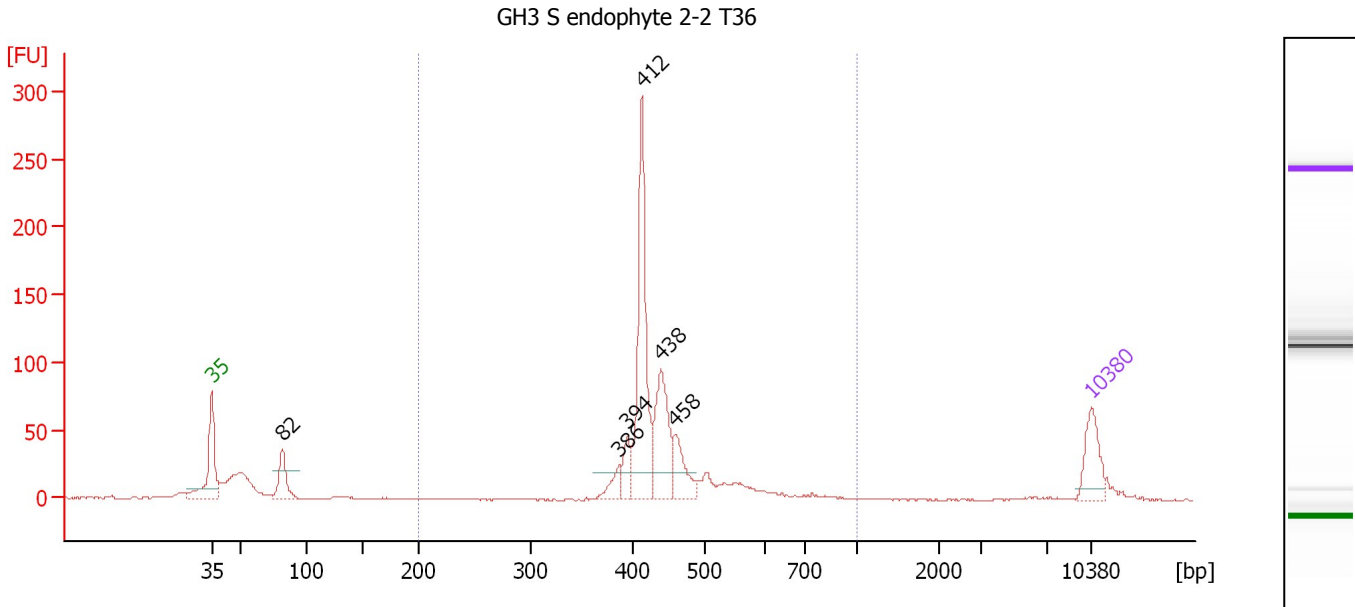
Region table for sample 5 : GH3 S enophte 2-1 T35

| From [bp] | Molarity [pmol/l] | Average Size [bp] | Conc. [pg/μl] | To [bp] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|-------------------|-------------------|---------------|---------|------------|------------|-----------------------------|-------|
| 200 | 936.2 | 438 | 267.92 | 1,000 | 295.2 | 70 | 10.3 | Blue |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-11\2012-04-11_003.xad

Created: 4/11/2012 11:18:47 AM
 Modified: 4/11/2012 11:58:52 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : GH3 S endophyte 2-2 T36

Number of peaks found: 6 Corr. Area 1: 680.6
 Noise: 0.4

Peak table for sample 6 : GH3 S endophyte 2-2 T36

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 82 | 102.12 | 1,882.8 | |
| 3 | 386 | 43.97 | 172.5 | |
| 4 | 394 | 55.51 | 213.5 | |
| 5 | 412 | 377.49 | 1,389.6 | |
| 6 | 438 | 199.71 | 690.2 | |
| 7 | 458 | 87.47 | 289.1 | |
| 8 | 10,380 | 75.00 | 10.9 | Upper Marker |

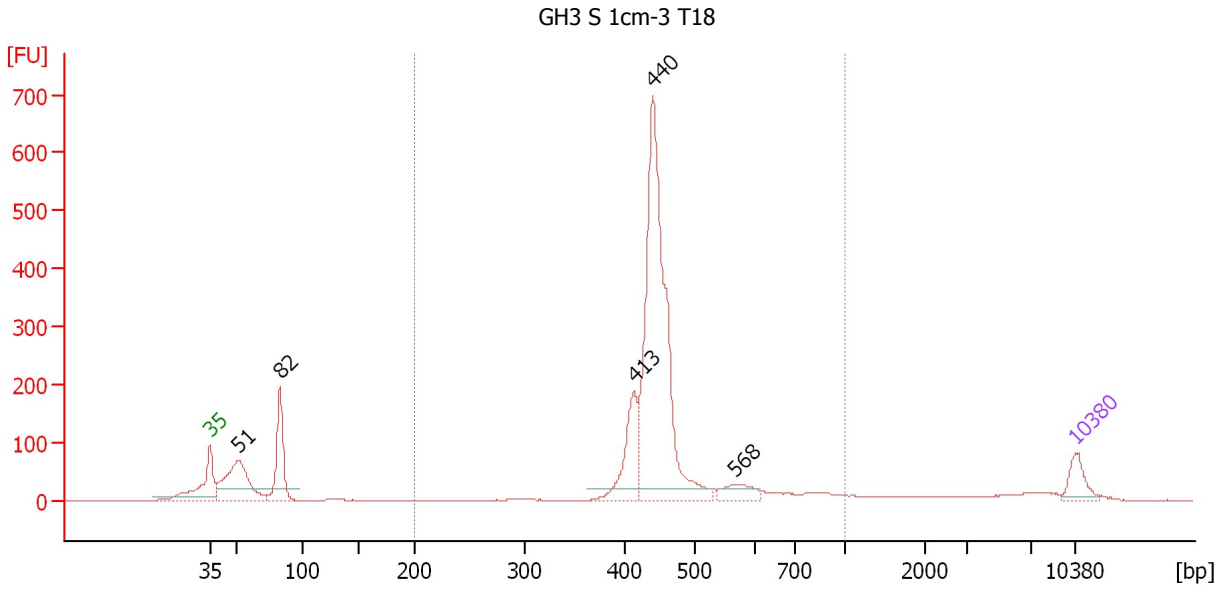
Region table for sample 6 : GH3 S endophyte 2-2 T36

| From [bp] | Molarity [pmol/l] | Average Size [bp] | Conc. [pg/μl] | To [bp] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|-------------------|-------------------|---------------|---------|------------|------------|-----------------------------|-------|
| 200 | 3,040.0 | 445 | 875.96 | 1,000 | 680.6 | 77 | 14.8 | Blue |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-11\2012-04-11_003.xad

Created: 4/11/2012 11:18:47 AM
 Modified: 4/11/2012 11:58:52 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : GH3 S 1cm-3 T18

Number of peaks found: 5 Corr. Area 1: 2,221.7
 Noise: 0.4

Peak table for sample 7 : GH3 S 1cm-3 T18

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 51 | 512.46 | 15,111.2 | |
| 3 | 82 | 379.98 | 6,999.6 | |
| 4 | 413 | 291.56 | 1,070.9 | |
| 5 | 440 | 1,610.71 | 5,549.6 | |
| 6 | 568 | 90.34 | 240.9 | |
| 7 | 10,380 | 75.00 | 10.9 | Upper Marker |

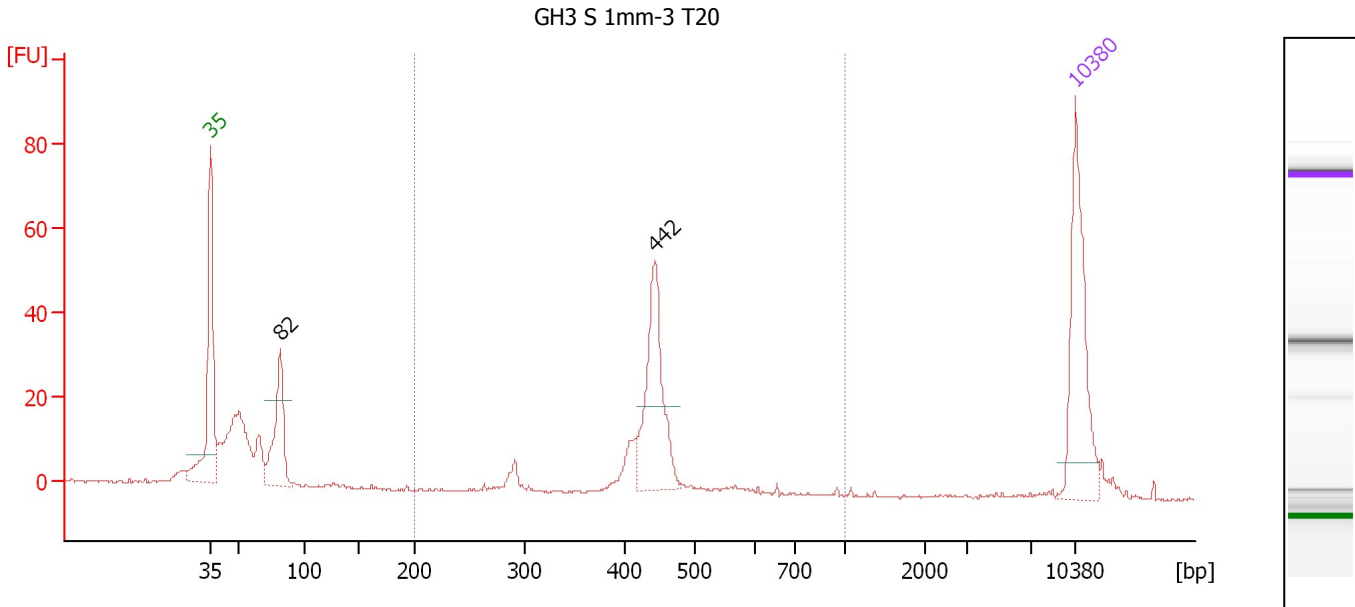
Region table for sample 7 : GH3 S 1cm-3 T18

| From [bp] | Molarity [pmol/l] | Average Size [bp] | Conc. [pg/μl] | To [bp] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|-------------------|-------------------|---------------|---------|------------|------------|-----------------------------|-------|
| 200 | 7,045.4 | 464 | 2,098.08 | 1,000 | 2,221.7 | 73 | 17.9 | Blue |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-11\2012-04-11_003.xad

Created: 4/11/2012 11:18:47 AM
 Modified: 4/11/2012 11:58:52 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : GH3 S 1mm-3 T20

Number of peaks found: 2 Corr. Area 1: 145.1
 Noise: 0.3

Peak table for sample 8 : GH3 S 1mm-3 T20

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 82 | 83.02 | 1,528.7 | |
| 3 | 442 | 107.31 | 367.5 | |
| 4 | 10,380 | 75.00 | 10.9 | Upper Marker |

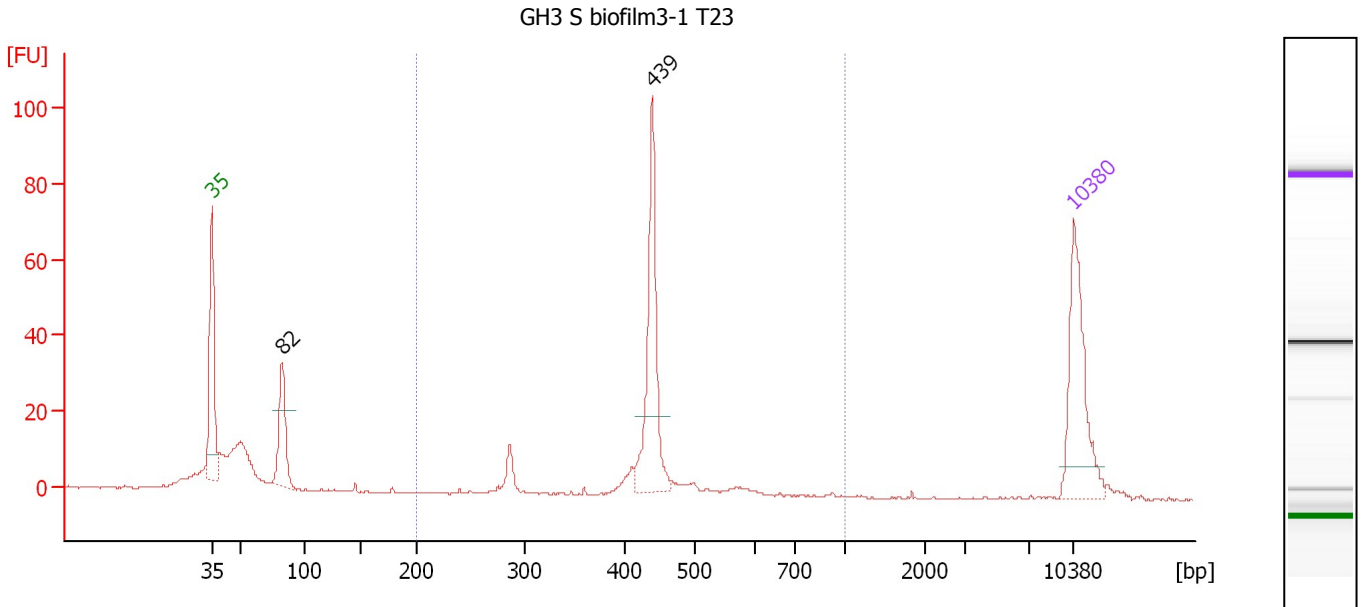
Region table for sample 8 : GH3 S 1mm-3 T20

| From [bp] | Molarity [pmol/l] | Average Size [bp] | Conc. [pg/μl] | To [bp] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|-------------------|-------------------|---------------|---------|------------|------------|-----------------------------|-------|
| 200 | 511.1 | 436 | 143.67 | 1,000 | 145.1 | 43 | 11.9 | Blue |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-11\2012-04-11_003.xad

Created: 4/11/2012 11:18:47 AM
 Modified: 4/11/2012 11:58:52 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : GH3 S biofilm3-1 T23

Number of peaks found: 2 Corr. Area 1: 151.5
 Noise: 0.2

Peak table for sample 9 : GH3 S biofilm3-1 T23

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 82 | 71.92 | 1,321.1 | |
| 3 | 439 | 124.79 | 431.0 | |
| 4 | 10,380 | 75.00 | 10.9 | Upper Marker |

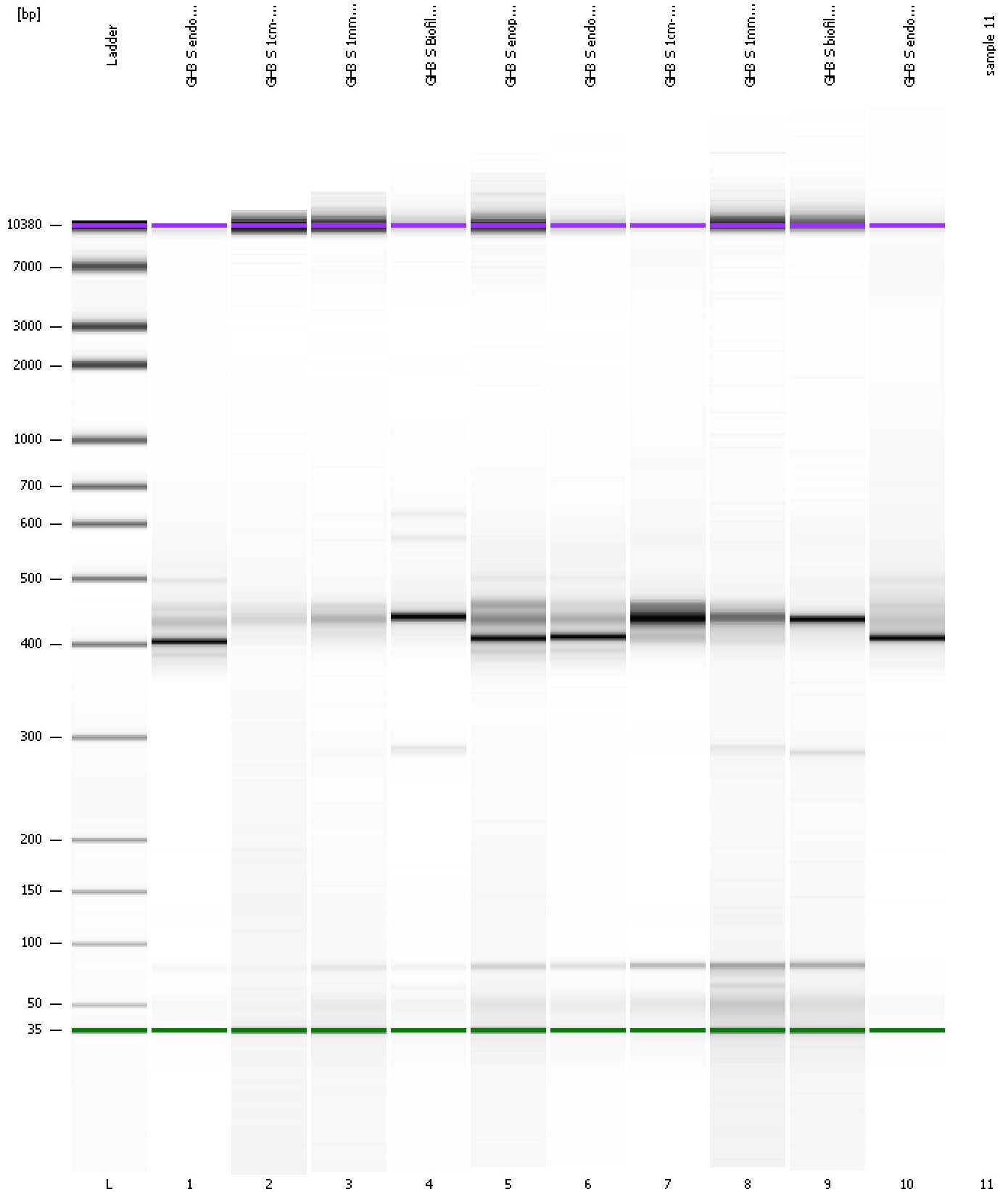
Region table for sample 9 : GH3 S biofilm3-1 T23

| From [bp] | Molarity [pmol/l] | Average Size [bp] | Conc. [pg/μl] | To [bp] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|-------------------|-------------------|---------------|---------|------------|------------|-----------------------------|-------|
| 200 | 613.2 | 436 | 170.45 | 1,000 | 151.5 | 50 | 13.9 | Blue |

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-11\2012-04-11_003.xad

Created: 4/11/2012 11:18:47 AM
Modified: 4/11/2012 11:58:52 AM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-11\2012-04-11_003.xad

Created: 4/11/2012 11:18:47 AM
Modified: 4/11/2012 11:58:52 AM

Invalid Samples

Sample 11 has not been run, no results available.

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-11\2012-04-11_003.xad

Created: 4/11/2012 11:18:47 AM
 Modified: 4/11/2012 11:58:52 AM

Run Logbook

| Description | Number | Source | Category | Sub Category | Time | Time Zone | User | Host |
|---|--------|------------|----------|--------------|-----------------------|-------------------------------------|----------|----------|
| Run ended on port 1 (Number of wells acquired: 11) | | Instrument | Run | | 4/11/2012 11:57:13 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2012-04-11\2012-04-11_003.xad) | | Instrument | Run | | 4/11/2012 11:18:52 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Product Number : G2938B | | Instrument | Run | | 4/11/2012 11:18:52 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Name : | | Instrument | Run | | 4/11/2012 11:18:52 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Vendor : Agilent Technologies | | Instrument | Run | | 4/11/2012 11:18:52 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Serial# : DE13701086 | | Instrument | Run | | 4/11/2012 11:18:52 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Firmware : C.01.069 | | Instrument | Run | | 4/11/2012 11:18:52 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Cartridge : Electrode | | Instrument | Run | | 4/11/2012 11:18:52 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |