

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...\Bioanalyzer\2016-01-20\2016-01-20_003_DH_1-5-16_LigRxn.xad

Created: 1/20/2016 4:19:55 PM
Modified: 1/21/2016 2:32:42 PM

Electrophoresis File Run Summary

Instrument Information:

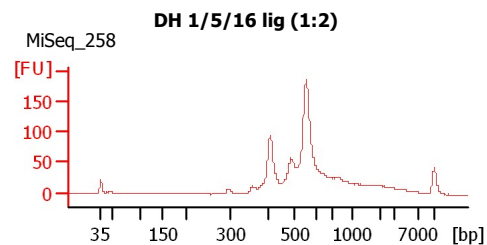
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:



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Electrophoresis File Run Summary (Chip Summary)

| Sample Name | Sample Comment | Rest. Digest | Status | Observation | Result Label | Result Color |
|---------------------|----------------|--------------------------|-------------------------------------|-------------|--------------|--------------|
| DH 1/5/16 lig (1:2) | MiSeq_258 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | | |
| Ladder | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | | |

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

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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/ μ l] : 1950
Uses Standard Area for Ladder Fragments
Lower Marker Concentration [pg/ μ l] : 125
Upper Marker Concentration [pg/ μ 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

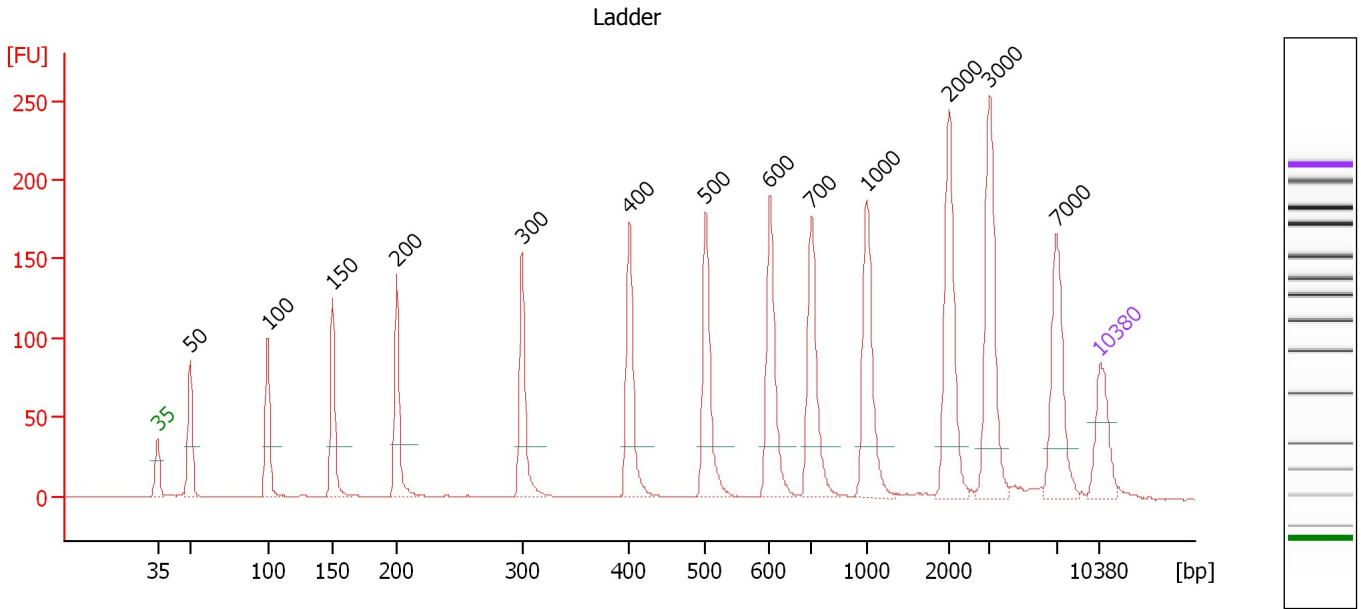
Ladder

| 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 |

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Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

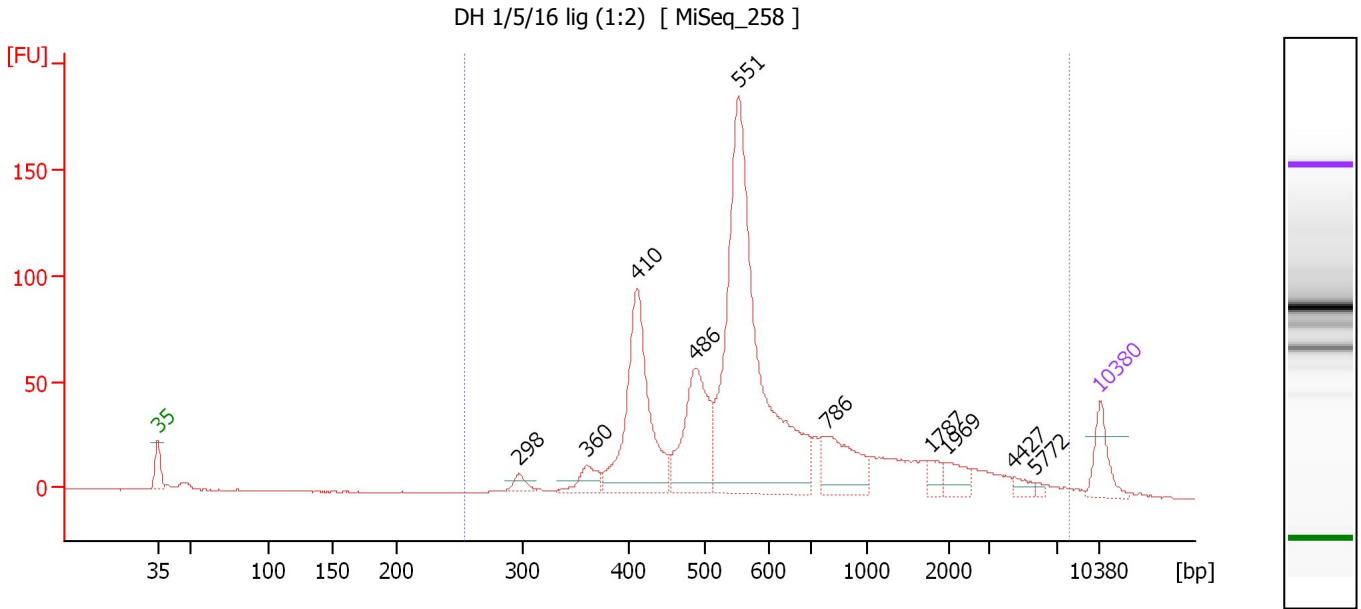
Peak table for Ladder

| 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 | 45.43 |
| 3 | 100 | 150.00 | 2,272.7 | Ladder Peak | 51.19 |
| 4 | 150 | 150.00 | 1,515.2 | Ladder Peak | 56.01 |
| 5 | 200 | 150.00 | 1,136.4 | Ladder Peak | 60.78 |
| 6 | 300 | 150.00 | 757.6 | Ladder Peak | 70.09 |
| 7 | 400 | 150.00 | 568.2 | Ladder Peak | 78.05 |
| 8 | 500 | 150.00 | 454.5 | Ladder Peak | 83.71 |
| 9 | 600 | 150.00 | 378.8 | Ladder Peak | 88.48 |
| 10 | 700 | 150.00 | 324.7 | Ladder Peak | 91.57 |
| 11 | 1,000 | 150.00 | 227.3 | Ladder Peak | 95.64 |
| 12 | 2,000 | 150.00 | 113.6 | Ladder Peak | 101.77 |
| 13 | 3,000 | 150.00 | 75.8 | Ladder Peak | 104.81 |
| 14 | 7,000 | 150.00 | 32.5 | Ladder Peak | 109.77 |
| 15 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

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Electropherogram Summary Continued ...



Overall Results for sample 10 : DH 1/5/16 lig (1:2)

Number of peaks found: 10 Corr. Area 1: 1,286.5
 Noise: 0.2

Peak table for sample 10 : DH 1/5/16 lig (1:2)

| 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 | 298 | 33.09 | 168.4 | | 69.89 |
| 3 | 360 | 66.10 | 278.0 | | 74.89 |
| 4 | 410 | 529.37 | 1,954.7 | | 78.63 |
| 5 | 486 | 342.98 | 1,068.8 | | 82.93 |
| 6 | 551 | 1,244.01 | 3,418.2 | | 86.16 |
| 7 | 786 | 183.53 | 353.9 | | 92.73 |
| 8 | 1,787 | 29.04 | 24.6 | | 100.47 |
| 9 | 1,969 | 50.54 | 38.9 | | 101.58 |
| 10 | 4,427 | 20.10 | 6.9 | | 106.58 |
| 11 | 5,772 | 6.56 | 1.7 | | 108.25 |
| 12 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

Region table for sample 10 : DH 1/5/16 lig (1:2)

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. lor [pg/μl] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|----------------------|------------|-----------------------------|
| 254 | 7,935 | 866 | 1,286.5 | 7,413.2 | 2,743.36 | 99 | 100.0 |

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Gel Image

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Run Logbook

| Description | Number | Source | Category | Sub Category | Time | Time Zone | User | Host |
|---------------------------------------------------------------------------------------------------|--------|------------|----------|--------------|----------------------|-------------------------------------|----------|----------|
| Run ended on port 1 (Number of wells acquired: 12) | | Instrument | Run | | 1/20/2016 5:01:12 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2016-01-20\2016-01-20_003.xad) | | Instrument | Run | | 1/20/2016 4:20:00 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Product Number : G2938B | | Instrument | Run | | 1/20/2016 4:20:00 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Name : | | Instrument | Run | | 1/20/2016 4:20:00 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Vendor : Agilent Technologies | | Instrument | Run | | 1/20/2016 4:20:00 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Serial# : DE13701086 | | Instrument | Run | | 1/20/2016 4:20:00 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Firmware : C.01.069 | | Instrument | Run | | 1/20/2016 4:20:00 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Cartridge : Electrode | | Instrument | Run | | 1/20/2016 4:20:00 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |