

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ata\2016-08-02\2016-08-02_001_CAB_CalfVent_LigationRxns.xad

Created: 8/2/2016 1:27:29 PM
Modified: 8/2/2016 2:10:43 PM

Electrophoresis File Run Summary

Instrument Information:

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

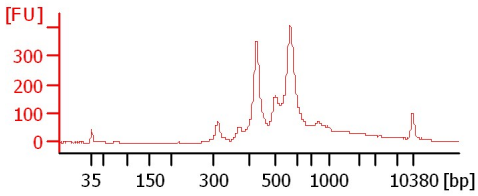
Assay Information:

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

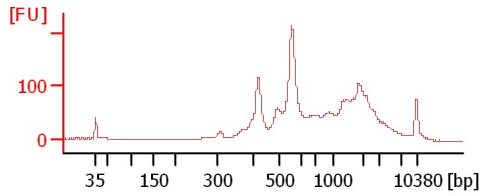
Chip Information:

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

CAB lig (1:5)



Calf Vent (1:3)



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Electrophoresis File Run Summary (Chip Summary)

| Sample Name | Sample Comment | Rest. Digest | Status | Observation | Result Label | Result Color |
|-------------------|----------------|--------------------------|--------|--------------------------|--------------|--------------|
| CAB lig (1:5) | | <input type="checkbox"/> | ✓ | | | |
| Calf Vent (1:3) | | <input type="checkbox"/> | ✓ | | | |
| Ladder | | <input 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/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

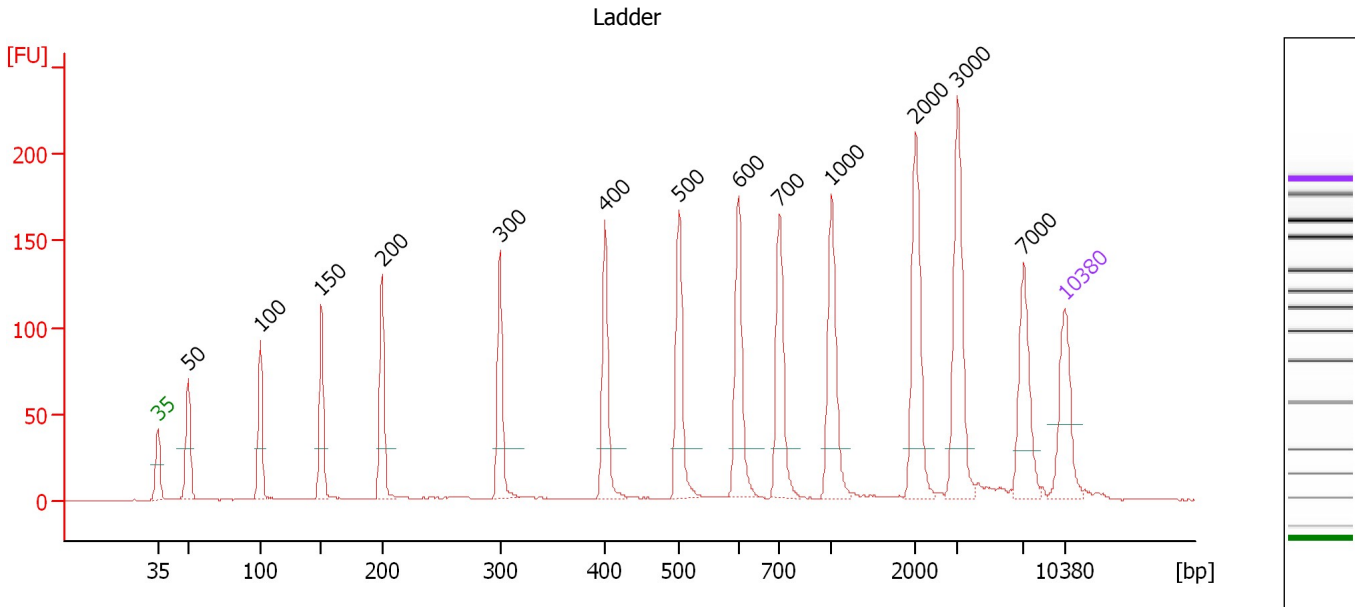
Ladder

| 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 |

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Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

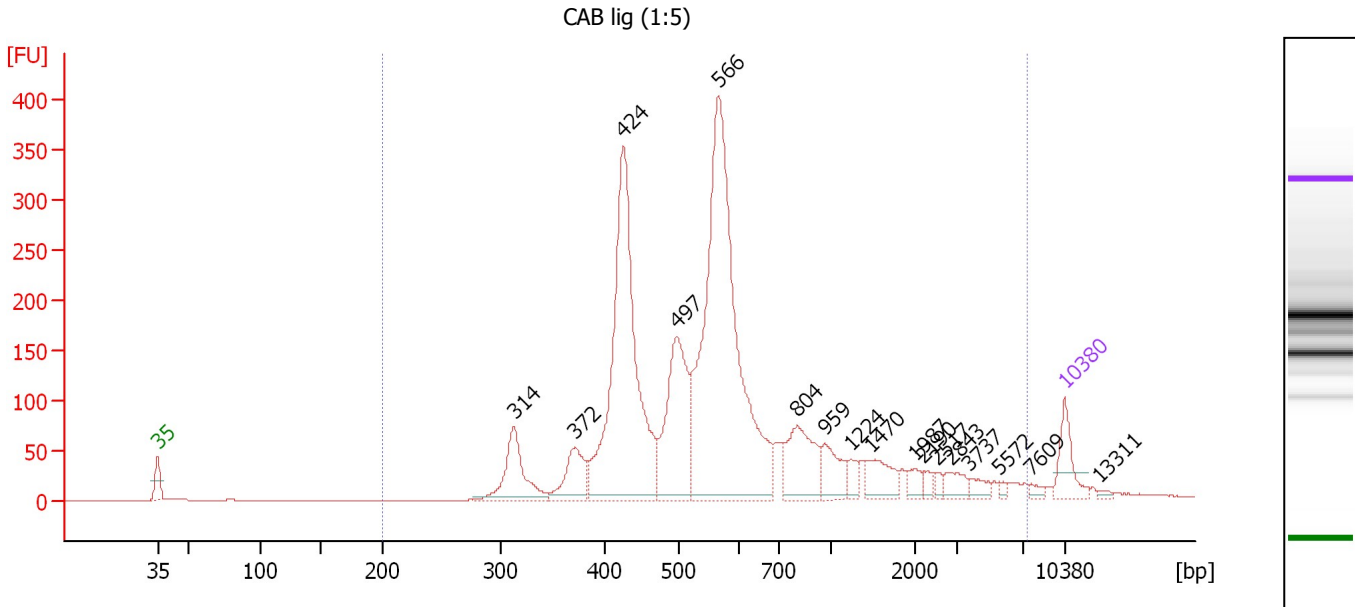
Peak table for Ladder

| 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 | 45.38 |
| 3 | 100 | 150.00 | 2,272.7 | Ladder Peak | 50.93 |
| 4 | 150 | 150.00 | 1,515.2 | Ladder Peak | 55.65 |
| 5 | 200 | 150.00 | 1,136.4 | Ladder Peak | 60.32 |
| 6 | 300 | 150.00 | 757.6 | Ladder Peak | 69.41 |
| 7 | 400 | 150.00 | 568.2 | Ladder Peak | 77.54 |
| 8 | 500 | 150.00 | 454.5 | Ladder Peak | 83.23 |
| 9 | 600 | 150.00 | 378.8 | Ladder Peak | 87.85 |
| 10 | 700 | 150.00 | 324.7 | Ladder Peak | 91.01 |
| 11 | 1,000 | 150.00 | 227.3 | Ladder Peak | 95.05 |
| 12 | 2,000 | 150.00 | 113.6 | Ladder Peak | 101.52 |
| 13 | 3,000 | 150.00 | 75.8 | Ladder Peak | 104.73 |
| 14 | 7,000 | 150.00 | 32.5 | Ladder Peak | 109.84 |
| 15 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

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Electropherogram Summary Continued ...



Overall Results for sample 2 : CAB lig (1:5)

Number of peaks found: 17 Corr. Area 1: 3,544.4
 Noise: 0.2

Peak table for sample 2 : CAB lig (1:5)

| 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 | 314 | 213.42 | 1,031.0 | | 70.52 |
| 3 | 372 | 133.07 | 542.1 | | 75.26 |
| 4 | 424 | 1,010.58 | 3,612.2 | | 78.90 |
| 5 | 497 | 406.17 | 1,237.1 | | 83.09 |
| 6 | 566 | 1,356.07 | 3,630.5 | | 86.28 |
| 7 | 804 | 193.70 | 365.2 | | 92.41 |
| 8 | 959 | 92.38 | 145.9 | | 94.50 |
| 9 | 1,224 | 34.73 | 43.0 | | 96.50 |
| 10 | 1,470 | 84.98 | 87.6 | | 98.09 |
| 11 | 1,987 | 27.26 | 20.8 | | 101.43 |
| 12 | 2,190 | 17.62 | 12.2 | | 102.13 |
| 13 | 2,517 | 13.35 | 8.0 | | 103.18 |
| 14 | 2,843 | 37.34 | 19.9 | | 104.23 |
| 15 | 3,737 | 26.80 | 10.9 | | 105.67 |
| 16 | 5,572 | 8.48 | 2.3 | | 108.01 |
| 17 | 7,609 | 13.33 | 2.7 | | 110.41 |
| 18 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 19 | 13,311 | 0.00 | 0.0 | | 115.74 |

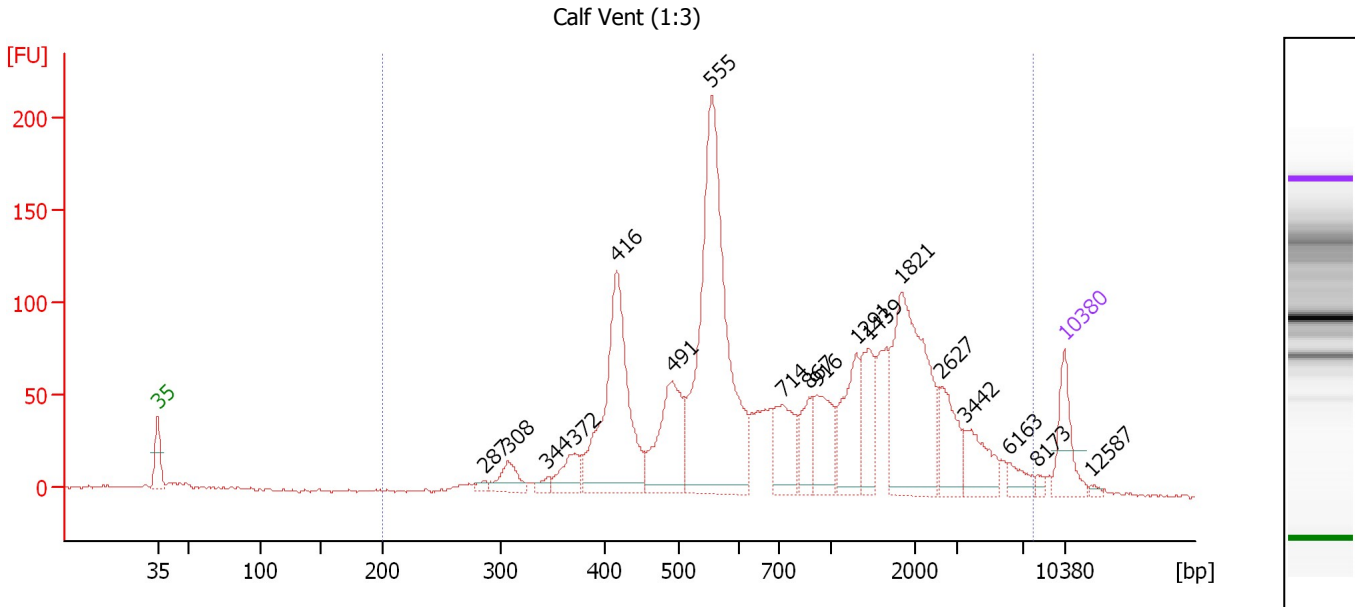
Region table for sample 2 : CAB lig (1:5)

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. [pg/μl] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|------------------|------------|-----------------------------|
| 200 | 7,268 | 795 | 3,544.4 | 10,572.6 | 3,704.74 | 98 | 100.0 |

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Electropherogram Summary Continued ...



Overall Results for sample 3 : Calf Vent (1:3)

Number of peaks found: 18 Corr. Area 1: 2,334.3
 Noise: 0.7

Peak table for sample 3 : Calf Vent (1:3)

| 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 | 287 | 11.95 | 63.1 | | 68.23 |
| 3 | 308 | 59.62 | 293.5 | | 70.04 |
| 4 | 344 | 16.73 | 73.6 | | 73.01 |
| 5 | 372 | 66.38 | 270.7 | | 75.23 |
| 6 | 416 | 431.58 | 1,571.6 | | 78.45 |
| 7 | 491 | 209.73 | 646.8 | | 82.73 |
| 8 | 555 | 742.73 | 2,028.9 | | 85.76 |
| 9 | 714 | 120.15 | 255.1 | | 91.19 |
| 10 | 867 | 68.21 | 119.2 | | 93.26 |
| 11 | 916 | 113.05 | 187.1 | | 93.91 |
| 12 | 1,291 | 127.02 | 149.0 | | 96.94 |
| 13 | 1,439 | 101.13 | 106.5 | | 97.89 |
| 14 | 1,821 | 326.66 | 271.8 | | 100.36 |
| 15 | 2,627 | 87.87 | 50.7 | | 103.53 |
| 16 | 3,442 | 78.89 | 34.7 | | 105.29 |
| 17 | 6,163 | 27.60 | 6.8 | | 108.77 |
| 18 | 8,173 | 8.29 | 1.5 | | 110.94 |
| 19 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 20 | 12,587 | 0.00 | 0.0 | | 115.06 |

Region table for sample 3 : Calf Vent (1:3)

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. [pg/μl] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|------------------|------------|-----------------------------|
| 200 | 7,859 | 1,254 | 2,334.3 | 6,507.6 | 2,816.19 | 98 | 94.7 |

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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 | | 8/2/2016 2:08:46 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-08-02\2016-08-02_001.xad) | | Instrument | Run | | 8/2/2016 1:27:35 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Product Number : G2938B | | Instrument | Run | | 8/2/2016 1:27:35 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Name : | | Instrument | Run | | 8/2/2016 1:27:35 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Vendor : Agilent Technologies | | Instrument | Run | | 8/2/2016 1:27:35 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Serial# : DE13701086 | | Instrument | Run | | 8/2/2016 1:27:35 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Firmware : C.01.069 | | Instrument | Run | | 8/2/2016 1:27:35 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Cartridge : Electrode | | Instrument | Run | | 8/2/2016 1:27:35 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |