

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...2100 expert\data\2018-05-09\2018-05-09_001_GPO_Pool_1-2.xad

Created: 5/9/2018 9:50:48 AM
Modified: 5/9/2018 11:10:21 AM

Electrophoresis File Run Summary

Instrument Information:

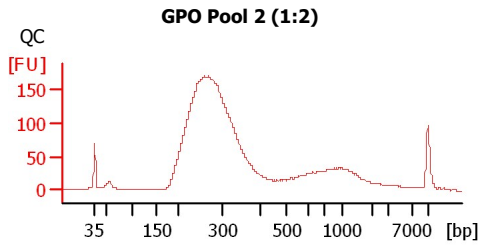
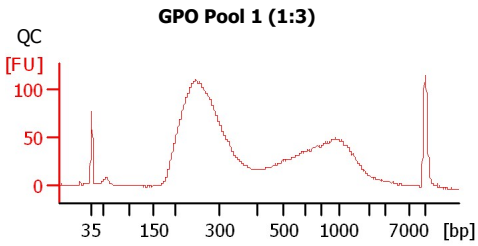
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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
GPO Pool 1 (1:3)	QC	<input type="checkbox"/>	✓			
GPO Pool 2 (1:2)	QC	<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

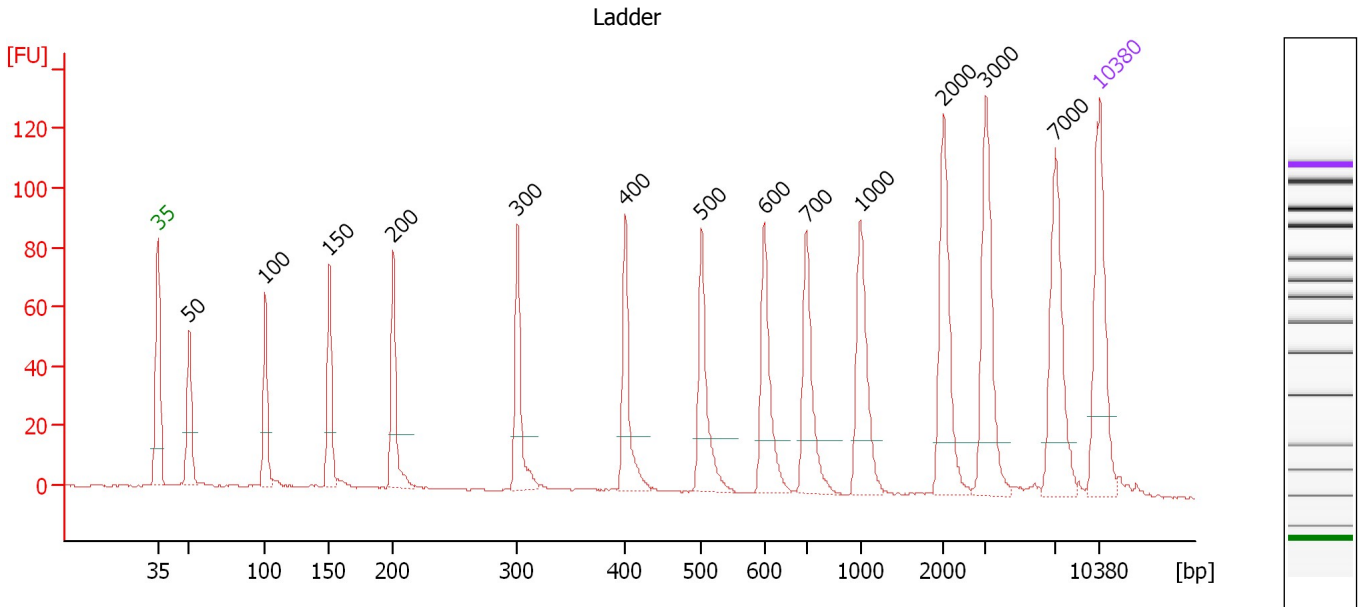
Ladder

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: 0.3

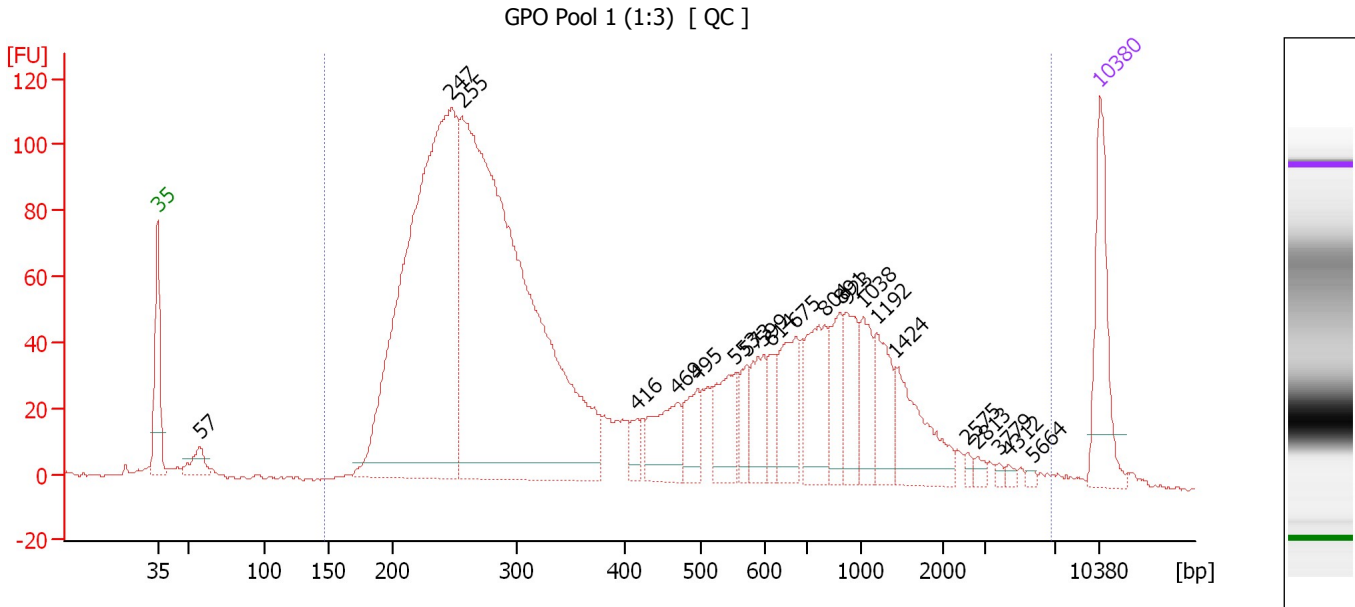
Peak table for Ladder

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	45.35
3	100	150.00	2,272.7	Ladder Peak	51.01
4	150	150.00	1,515.2	Ladder Peak	55.76
5	200	150.00	1,136.4	Ladder Peak	60.51
6	300	150.00	757.6	Ladder Peak	69.72
7	400	150.00	568.2	Ladder Peak	77.74
8	500	150.00	454.5	Ladder Peak	83.40
9	600	150.00	378.8	Ladder Peak	88.05
10	700	150.00	324.7	Ladder Peak	91.17
11	1,000	150.00	227.3	Ladder Peak	95.20
12	2,000	150.00	113.6	Ladder Peak	101.39
13	3,000	150.00	75.8	Ladder Peak	104.51
14	7,000	150.00	32.5	Ladder Peak	109.69
15	10,380	75.00	10.9	Upper Marker	113.00

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Electropherogram Summary Continued ...



Overall Results for sample 5 : GPO Pool 1 (1:3)

Number of peaks found: 22 Corr. Area 1: 2,765.5
 Noise: 0.5

Peak table for sample 5 : GPO Pool 1 (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	57	30.94	824.0		46.13
3	247	864.64	5,310.8		64.81
4	255	1,103.53	6,548.7		65.61
5	416	20.49	74.5		78.66
6	469	67.85	219.2		81.64
7	495	42.90	131.3		83.12
8	553	63.35	173.5		85.88
9	573	28.36	75.0		86.78
10	599	48.98	123.9		88.00
11	614	26.66	65.8		88.48
12	675	71.93	161.4		90.39
13	804	83.39	157.1		92.57
14	891	47.35	80.5		93.74
15	923	52.16	85.7		94.16
16	1,038	44.84	65.5		95.43
17	1,192	51.66	65.7		96.39
18	1,424	72.29	76.9		97.82
19	2,575	4.44	2.6		103.18
20	2,813	5.61	3.0		103.92
21	3,779	3.06	1.2		105.52
22	4,312	3.61	1.3		106.21
23	5,664	2.84	0.8		107.96
24	10,380	75.00	10.9	Upper Marker	113.00

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Electropherogram Summary Continued ...

... Region table for sample 5 :

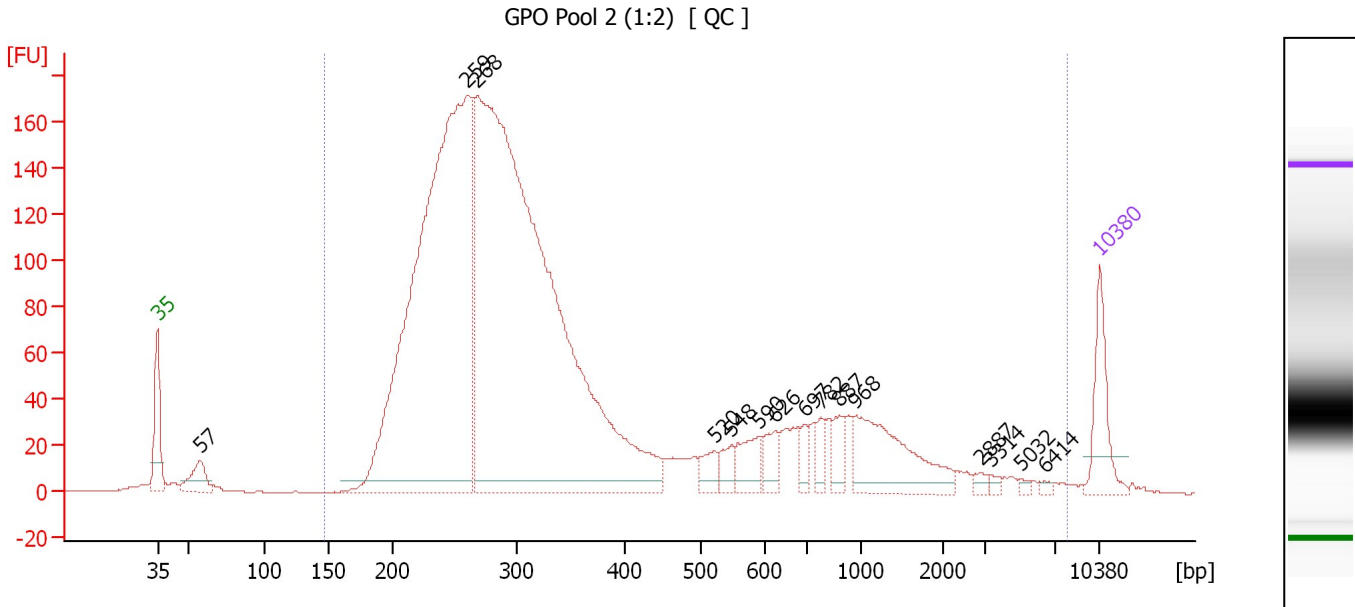
GPO Pool 1 (1:3)

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ μ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
146	6,747	599	2,845.00	2,765.5	13,508.9	 97	100.0

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Electropherogram Summary Continued ...



Overall Results for sample 6 : GPO Pool 2 (1:2)

Number of peaks found: 15 Corr. Area 1: 3,507.2
 Noise: 0.3

Peak table for sample 6 : GPO Pool 2 (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	57	66.93	1,778.1		46.15
3	259	1,730.42	10,120.2		65.95
4	268	2,365.13	13,376.0		66.77
5	520	34.90	101.6		84.35
6	548	28.04	77.5		85.65
7	590	52.01	133.5		87.60
8	626	40.11	97.1		88.85
9	697	27.71	60.2		91.08
10	782	28.82	55.8		92.27
11	887	34.01	58.1		93.68
12	968	173.12	271.0		94.77
13	2,887	8.80	4.6		104.16
14	3,314	6.45	2.9		104.91
15	5,032	4.77	1.4		107.14
16	6,414	4.53	1.1		108.93
17	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 6 : GPO Pool 2 (1:2)

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
146	7,875	517	4,682.25	3,507.2	23,745.1	97	100.0

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Gel Image

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Curves

Standard Curve

