

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-04\2014-03-04_004.xad

Created: 3/4/2014 1:21:03 PM
Modified: 3/4/2014 2:01:35 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:

ER_12X

EEV14-Vc 12 cyc

EEV14-Vf 12 cyc

EEV14-Cf 12 cyc

EEV14-Cd 12 cyc

1h input 2/28/14

0h input 2/28/14

1h input 6/25/13

1h chip 2/28/14

0h chip 2/28/14

48h chip 2/28/14

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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
ER_12X		<input type="checkbox"/>	✓			
EEV14-Vc 12 cyc		<input type="checkbox"/>	✓			
EEV14-Vf 12 cyc		<input type="checkbox"/>	✓			
EEV14-Cf 12 cyc		<input type="checkbox"/>	✓			
EEV14-Cd 12 cyc		<input type="checkbox"/>	✓			
1h input 2/28/14		<input type="checkbox"/>	✓			
0h input 2/28/14		<input type="checkbox"/>	✓			
1h input 6/25/13		<input type="checkbox"/>	✓			
1h chip 2/28/14		<input type="checkbox"/>	✓			
0h chip 2/28/14		<input type="checkbox"/>	✓			
48h chip 2/28/14		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

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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

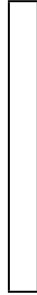
Ladder Peak	Size	Area
1	35	160
2	50	210
3	100	208
4	150	221
5	200	242
6	300	270
7	400	305
8	500	306
9	600	336
10	700	321
11	1000	366
12	2000	413
13	3000	411
14	7000	400
15	10380	214

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Electropherogram Summary

Ladder



Peak table for Ladder

Peak	Aligned Migration Time	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	45.33	50	150.00	4,545.5	Ladder Peak
3	50.86	100	150.00	2,272.7	Ladder Peak
4	55.53	150	150.00	1,515.2	Ladder Peak
5	60.20	200	150.00	1,136.4	Ladder Peak
6	69.31	300	150.00	757.6	Ladder Peak
7	77.35	400	150.00	568.2	Ladder Peak
8	83.01	500	150.00	454.5	Ladder Peak
9	87.77	600	150.00	378.8	Ladder Peak
10	90.88	700	150.00	324.7	Ladder Peak
11	94.94	1,000	150.00	227.3	Ladder Peak
12	101.25	2,000	150.00	113.6	Ladder Peak
13	104.49	3,000	150.00	75.8	Ladder Peak

Overall Results for Ladder

Noise: 0.2

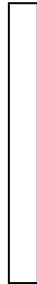
Peak	Aligned Migration Time	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
14	109.46	7,000	150.00	32.5	Ladder Peak
15	113.00	10,380	75.00	10.9	Upper Marker

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Electropherogram Summary Continued ...

ER_12X



Peak table for sample 1 : ER_12X

Peak	Aligned Migration Time	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	55.70	152	46.35	462.4	
3	57.30	169	16.98	152.2	
4	59.85	196	253.01	1,952.9	
5	113.00	10,380	75.00	10.9	Upper Marker
6	114.77	12,070	0.00	0.0	

Overall Results for sample 1 : ER_12X

Number of peaks found: 4
 Noise: 0.1
 Corr. Area 1: 257.2

Region table for sample 1 : ER_12X

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]
133	217	187	2,682.4	329.02	257.2	87	9.2

EEV14-Vc 12 cyc



Peak table for sample 2 : EEV14-Vc 12 cyc

Peak	Aligned Migration Time	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	73.35	350	103.09	446.0	
3	74.31	362	17.91	74.9	
4	75.66	379	18.81	75.2	
5	76.35	388	13.58	53.1	
6	77.87	409	16.25	60.2	
7	78.96	428	15.20	53.8	
8	80.91	463	17.98	58.9	
9	84.38	529	122.71	351.6	
10	85.51	553	50.37	138.1	
11	87.42	593	87.71	224.2	
12	88.07	610	35.85	89.1	
13	89.20	646	86.60	203.0	
14	90.59	691	72.74	159.5	
15	91.37	737	56.06	115.3	
16	91.98	782	70.97	137.6	
17	93.37	884	177.70	304.5	
18	106.44	4,574	45.13	14.9	
19	107.05	5,063	12.16	3.6	
20	107.57	5,483	39.24	10.8	
21	111.13	8,599	8.69	1.5	
22	113.00	10,380	75.00	10.9	Upper Marker
23	115.95	13,197	0.00	0.0	

Overall Results for sample 2 : EEV14-Vc 12 cyc

Number of peaks found: 21
 Noise: 0.1
 Corr. Area 1: 1,459.7

Region table for sample 2 : EEV14-Vc 12 cyc

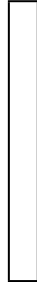
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]
287	1,782	672	2,992.5	1,115.6	1,459.7	86	37.3

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Electropherogram Summary Continued ...

EEV14-Vf 12 cyc



Peak table for sample 3 : EEV14-Vf 12 cyc

Peak	Aligned Migration Time	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	73.68	354	210.58	900.5	
3	74.03	359	45.74	193.2	
4	74.91	370	54.43	223.1	
5	76.10	384	56.61	223.1	
6	77.52	403	32.18	121.0	
7	78.44	419	21.21	76.7	
8	80.95	464	29.62	96.8	
9	82.50	491	34.38	106.1	
10	84.66	535	49.27	139.6	
11	85.76	558	40.43	109.8	
12	87.35	591	37.74	96.7	
13	88.18	613	43.95	108.6	
14	88.89	636	38.93	92.7	
15	89.77	664	45.77	104.4	
16	90.39	684	55.20	122.2	
17	91.71	761	36.12	71.9	
18	93.43	888	33.48	57.1	
19	94.05	934	134.75	218.6	
20	106.78	4,849	76.20	23.8	
21	107.53	5,452	18.43	5.1	
22	108.50	6,233	35.47	8.6	
23	110.40	7,899	14.63	2.8	
24	111.72	9,161	6.19	1.0	
25	113.00	10,380	75.00	10.9	Upper Marker

Overall Results for sample 3 : EEV14-Vf 12 cyc

Number of peaks found: 25

Noise: 0.2

Corr. Area 1: 1,056.9

Region table for sample 3 : EEV14-Vf 12 cyc

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Size distribution Total in CV [%]
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269	1,853	626	3,673.6	1,226.1	1,056.85	42.5
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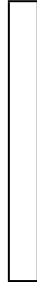
Peak	Aligned Migration Time	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
26	114.41	11,726	0.00	0.0	
27	115.47	12,735	0.00	0.0	

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Electropherogram Summary Continued ...

EEV14-Cf 12 cyc



Peak table for sample 4 : EEV14-Cf 12 cyc

Peak	Aligned Migration Time	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	70.05	309	58.96	289.0	
3	73.14	348	153.22	667.9	
4	74.53	365	45.63	189.5	
5	75.69	379	42.26	168.8	
6	76.86	394	40.23	154.8	
7	79.59	440	28.92	99.7	
8	80.80	461	31.97	105.1	
9	83.17	503	111.14	334.5	
10	84.34	528	42.64	122.4	
11	85.90	561	52.26	141.2	
12	86.44	572	43.12	114.2	
13	87.16	587	45.10	116.4	
14	88.37	619	93.63	229.0	
15	89.04	641	60.82	143.8	
16	90.16	677	74.10	165.9	
17	90.97	707	82.78	177.5	
18	92.76	839	76.30	137.8	
19	93.43	889	52.63	89.8	
20	93.88	922	276.32	454.3	
21	113.00	10,380	75.00	10.9	Upper Marker

Overall Results for sample 4 : EEV14-Cf 12 cyc

Number of peaks found: 19
 Noise: 0.2
 Corr. Area 1: 1,464.9

Region table for sample 4 : EEV14-Cf 12 cyc

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Size distribution Total in CV [%]
273	2,178	683	5,079.9	1,812.1	1,464.98	44.5

EEV14-Cd 12 cyc



Peak table for sample 5 : EEV14-Cd 12 cyc

Peak	Aligned Migration Time	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	72.97	346	101.78	446.3	
3	74.33	362	59.99	250.8	
4	76.78	393	40.97	158.0	
5	79.40	436	23.22	80.6	
6	80.08	448	22.85	77.2	
7	83.57	512	188.28	557.5	
8	88.32	618	379.86	931.4	
9	89.59	659	96.25	221.4	
10	90.50	688	120.25	264.9	
11	91.67	759	99.32	198.3	
12	92.35	809	85.77	160.6	
13	93.03	859	634.44	1,118.8	
14	113.00	10,380	75.00	10.9	Upper Marker

Overall Results for sample 5 : EEV14-Cd 12 cyc

Number of peaks found: 12
 Noise: 0.2
 Corr. Area 1: 2,131.2

Region table for sample 5 : EEV14-Cd 12 cyc

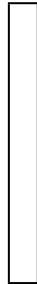
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Size distribution Total in CV [%]
274	2,547	764	5,305.2	2,152.4	2,131.98	43.2

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Electropherogram Summary Continued ...

1h input 2/28/14



Peak table for sample 6 : 1h input 2/28/14

Peak	Aligned Migration Time	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	44.47	44	42.38	1,445.0	
3	64.56	248	396.54	2,424.2	
4	66.12	265	117.89	674.2	
5	67.04	275	96.32	530.7	
6	67.86	284	81.21	433.1	
7	70.02	309	111.20	545.7	
8	72.72	342	63.01	278.8	
9	73.96	358	58.81	249.0	
10	76.03	384	55.17	218.0	
11	76.76	393	48.20	186.0	
12	78.37	418	137.36	498.0	
13	80.98	464	54.35	177.4	
14	82.08	484	40.39	126.5	
15	83.32	506	26.82	80.2	
16	84.42	530	27.99	80.1	
17	85.34	549	21.94	60.6	
18	87.04	585	17.79	46.1	
19	88.09	610	11.65	28.9	
20	89.79	665	7.10	16.2	
21	90.66	693	6.54	14.3	
22	113.00	10,380	75.00	10.9	Upper Marker

Overall Results for sample 6 : 1h input 2/28/14

Number of peaks found: 20
 Noise: 0.1
 Corr. Area 1: 1,428.1

Region table for sample 6 : 1h input 2/28/14

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Size distribution Total in CV [%]
200	1,000	423	13,517.1	3,123.3	1,428.81	40.3

0h input 2/28/14



Peak table for sample 7 : 0h input 2/28/14

Peak	Aligned Migration Time	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	44.44	44	43.58	1,491.7	
3	53.37	127	155.76	1,861.3	
4	64.15	243	418.51	2,605.9	
5	65.54	259	82.28	482.0	
6	67.08	275	95.84	527.1	
7	69.77	306	139.31	690.5	
8	70.75	318	82.60	393.7	
9	71.73	330	55.96	257.0	
10	73.21	348	54.82	238.3	
11	75.44	376	61.28	246.8	
12	79.35	435	58.95	205.2	
13	80.28	452	53.65	180.0	
14	80.93	463	69.33	226.8	
15	81.86	480	62.58	197.7	
16	83.39	508	156.71	467.4	
17	87.11	586	35.04	90.6	
18	90.64	692	31.02	67.9	
19	93.15	868	23.88	41.7	
20	95.62	1,107	14.16	19.4	
21	96.31	1,218	16.64	20.7	
22	99.80	1,771	23.99	20.5	
23	101.29	2,012	10.80	8.1	
24	102.45	2,371	10.36	6.6	
25	104.40	2,973	12.96	6.6	

Overall Results for sample 7 : 0h input 2/28/14

Number of peaks found: 24
 Noise: 0.2
 Corr. Area 1: 1,717.5

Region table for sample 7 : 0h input 2/28/14

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Size distribution Total in CV [%]
200	1,000	430	10,947.7	2,558.1	1,717.79	39.2

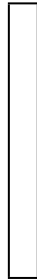
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Electropherogram Summary Continued ...

Peak	Aligned Migration Time	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
26	▶ 113.00	10,380	75.00	10.9	Upper Marker

1h input 6/25/13



Peak table for sample 8 : 1h input 6/25/13

Peak	Aligned Migration Time	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	◀ 43.00	35	125.00	5,411.3	Lower Marker
2	44.46	44	32.66	1,115.7	
3	53.19	125	18.84	228.5	
4	65.96	263	1,482.55	8,535.2	
5	74.41	363	38.79	161.7	
6	77.51	403	39.76	149.6	
7	79.20	433	53.99	189.1	
8	79.85	444	44.41	151.5	
9	81.64	476	34.72	110.6	
10	82.34	488	45.45	141.1	
11	83.05	501	37.19	112.5	
12	83.70	515	48.63	143.2	
13	84.69	535	46.63	132.0	
14	87.08	586	27.51	71.2	
15	87.84	602	63.21	159.0	
16	91.12	718	29.17	61.5	
17	93.61	902	21.18	35.6	
18	94.22	947	20.75	33.2	
19	95.49	1,087	28.24	39.4	
20	97.41	1,392	29.38	32.0	
21	98.16	1,511	20.56	20.6	
22	99.15	1,668	41.61	37.8	
23	101.08	1,973	37.08	28.5	
24	104.03	2,860	10.81	5.7	

Overall Results for sample 8 : 1h input 6/25/13

Number of peaks found: 31
 Noise: 0.1
 Corr. Area 1: 2,410.2

Region table for sample 8 : 1h input 6/25/13

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]
200	1,000	423	10,927.49	2,456.32	2,410.81	43.2	

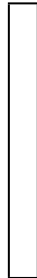
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Electropherogram Summary Continued ...

Peak	Aligned Migration Time	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
25	105.91	4,146	16.41	6.0	
26	106.80	4,864	8.90	2.8	
27	108.21	5,997	14.95	3.8	
28	109.53	7,066	19.40	4.2	
29	111.54	8,992	5.22	0.9	
30	▶ 113.00	10,380	75.00	10.9	Upper Marker
31	116.19	13,425	0.00	0.0	
32	118.12	15,262	0.00	0.0	
33	118.92	16,023	0.00	0.0	

1h chip 2/28/14



Peak table for sample 9 : 1h chip 2/28/14

Peak	Aligned Migration Time	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	◀ 43.00	35	125.00	5,411.3	Lower Marker
2	44.31	43	60.08	2,094.9	
3	53.00	123	172.31	2,124.5	
4	▶ 113.00	10,380	75.00	10.9	Upper Marker

Overall Results for sample 9 : 1h chip 2/28/14

Number of peaks found: 2
 Noise: 0.2
 Corr. Area 1: 0.1

Region table for sample 9 : 1h chip 2/28/14

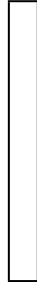
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]
200	1,000	610	0.4	0.16	0.1	0	0.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-04\2014-03-04_004.xad

Created: 3/4/2014 1:21:03 PM
 Modified: 3/4/2014 2:01:35 PM

Electropherogram Summary Continued ...

0h chip 2/28/14



Peak table for sample 10 : 0h chip 2/28/14

Peak	Aligned Migration Time	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	44.37	44	66.07	2,283.9	
3	53.14	124	476.35	5,804.9	
4	113.00	10,380	75.00	10.9	Upper Marker

Overall Results for sample 10 : 0h chip 2/28/14

Number of peaks found: 2
 Noise: 0.1
 Corr. Area 1: 148.3

Region table for sample 10 : 0h chip 2/28/14

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]
200	1,000	519	1,027.2	281.27	148.3	35	38.5

48h chip 2/28/14



Peak table for sample 11 : 48h chip 2/28/14

Peak	Aligned Migration Time	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	44.28	43	40.68	1,424.7	
3	52.95	122	395.13	4,895.1	
4	70.08	309	33.47	163.9	
5	72.50	340	53.08	236.8	
6	74.79	368	66.36	273.2	
7	75.50	377	25.94	104.3	
8	76.55	390	17.97	69.8	
9	77.50	403	27.47	103.4	
10	78.64	423	22.30	79.9	
11	80.88	462	15.38	50.4	
12	81.64	476	17.45	55.6	
13	82.73	495	16.25	49.7	
14	84.50	531	10.06	28.7	
15	85.54	553	8.28	22.7	
16	87.11	586	7.27	18.8	
17	103.86	2,807	6.82	3.7	
18	105.53	3,838	15.57	6.1	
19	113.00	10,380	75.00	10.9	Upper Marker

Overall Results for sample 11 : 48h chip 2/28/14

Number of peaks found: 17
 Noise: 0.1
 Corr. Area 1: 548.4

Region table for sample 11 : 48h chip 2/28/14

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]
200	1,000	483	3,649.0	991.07	548.4	58	35.2

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-04\2014-03-04_004.xad

Created: 3/4/2014 1:21:03 PM
Modified: 3/4/2014 2:01:35 PM

Gel Image