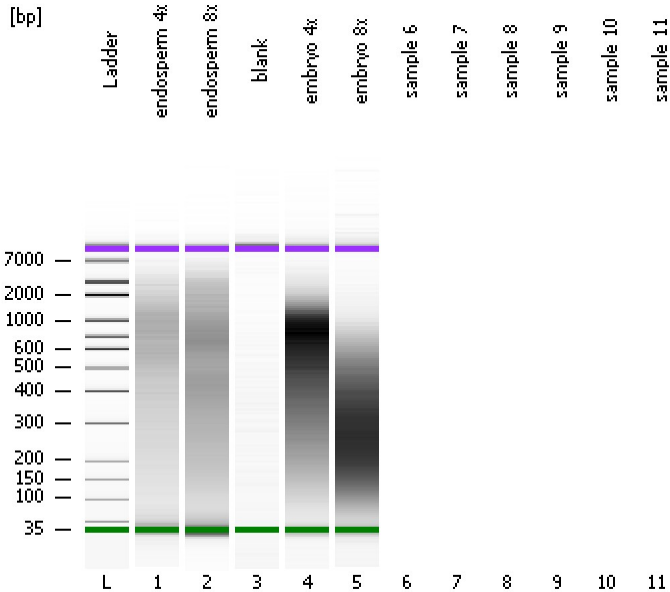


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-09\2015-06-09\_001.xad

Created: 6/9/2015 10:09:11 AM  
Modified: 6/9/2015 10:33:20 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

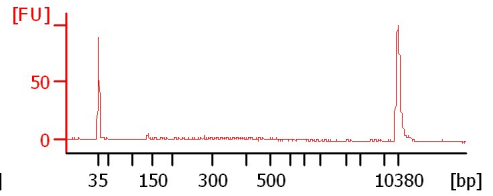
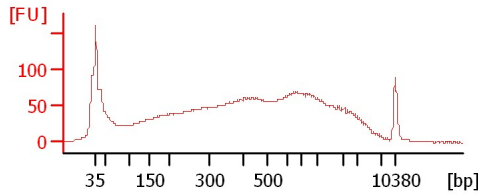
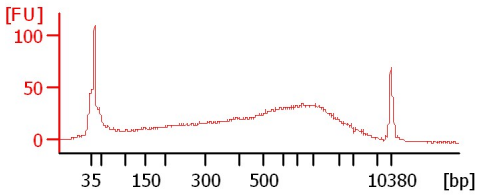
Chip Information:

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

endosperm 4x

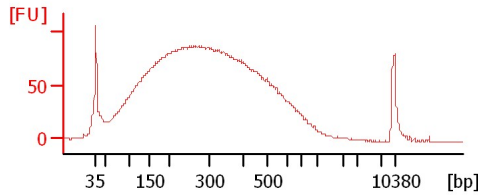
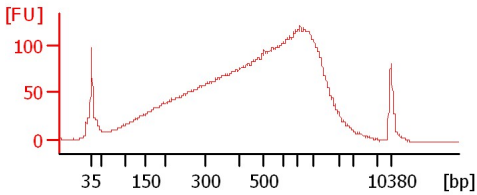
endosperm 8x

blank



embryo 4x

embryo 8x



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-09\2015-06-09\_001.xad

Created: 6/9/2015 10:09:11 AM  
 Modified: 6/9/2015 10:33:20 AM

**Electrophoresis File Run Summary (Chip Summary)**

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
endosperm 4x		<input type="checkbox"/>	✓			
endosperm 8x		<input type="checkbox"/>	✓			
blank		<input type="checkbox"/>	✓			
embryo 4x		<input type="checkbox"/>	✓			
embryo 8x		<input type="checkbox"/>	✓			
sample 6		<input type="checkbox"/>				
sample 7		<input type="checkbox"/>				
sample 8		<input type="checkbox"/>				
sample 9		<input type="checkbox"/>				
sample 10		<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\2015-06-09\2015-06-09\_001.xad

Created: 6/9/2015 10:09:11 AM  
 Modified: 6/9/2015 10:33:20 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] : 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

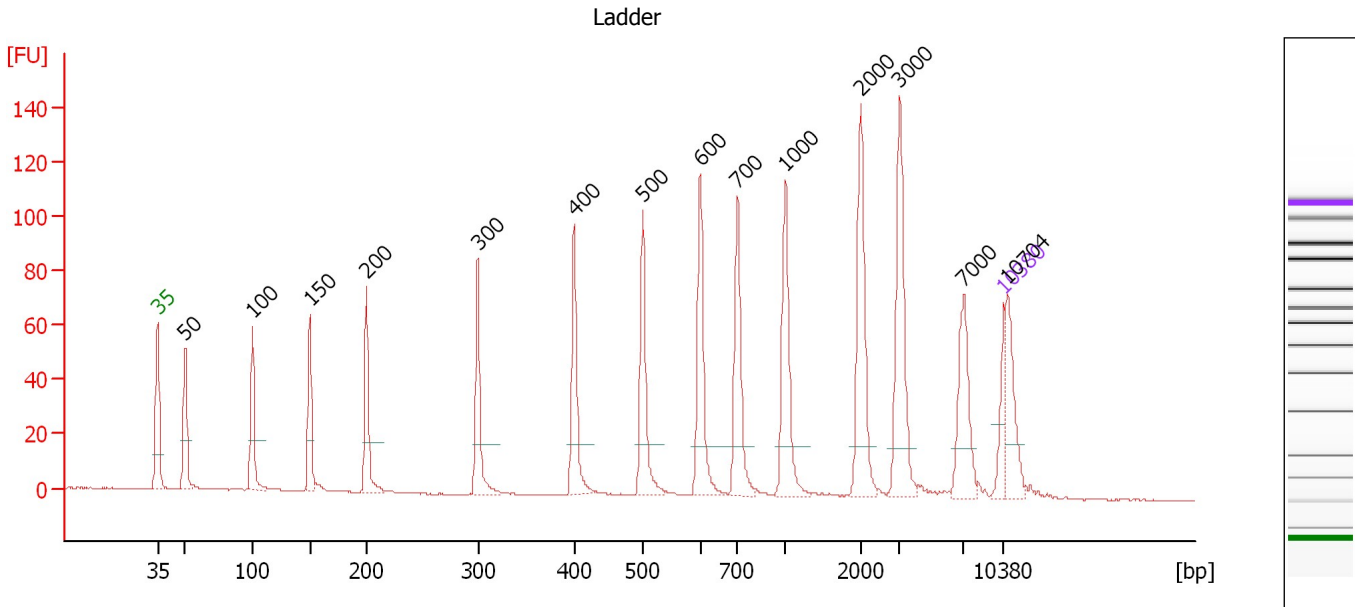
**Ladder**

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

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-09\2015-06-09\_001.xad

Created: 6/9/2015 10:09:11 AM  
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**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

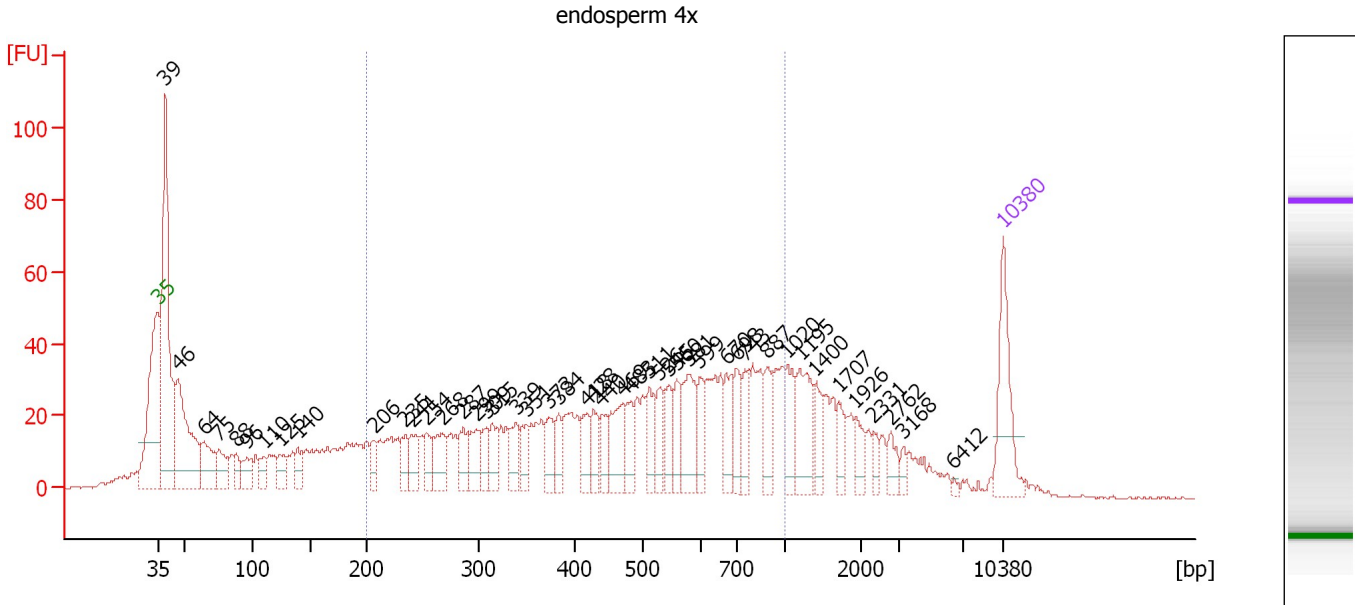
**Peak table for Ladder**

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	45.26
3	100	150.00	2,272.7	Ladder Peak	50.87
4	150	150.00	1,515.2	Ladder Peak	55.58
5	200	150.00	1,136.4	Ladder Peak	60.29
6	300	150.00	757.6	Ladder Peak	69.52
7	400	150.00	568.2	Ladder Peak	77.48
8	500	150.00	454.5	Ladder Peak	83.18
9	600	150.00	378.8	Ladder Peak	87.93
10	700	150.00	324.7	Ladder Peak	91.01
11	1,000	150.00	227.3	Ladder Peak	94.99
12	2,000	150.00	113.6	Ladder Peak	101.19
13	3,000	150.00	75.8	Ladder Peak	104.45
14	7,000	150.00	32.5	Ladder Peak	109.70
15	10,380	75.00	10.9	Upper Marker	113.00
16	10,704	0.00	0.0		113.32

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-09\2015-06-09\_001.xad

Created: 6/9/2015 10:09:11 AM  
 Modified: 6/9/2015 10:33:20 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : endosperm 4x**

Number of peaks found: 46                      Corr. Area 1: 1,072.5  
 Noise: 0.3

**Peak table for sample 1 : endosperm 4x**

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	39	449.84	17,385.8		43.63
3	46	238.70	7,844.2		44.68
4	64	80.55	1,915.0		46.80
5	75	49.56	1,000.9		48.07
6	88	27.20	468.7		49.52
7	96	40.15	633.5		50.43
8	110	25.14	347.4		51.78
9	125	35.86	436.0		53.19
10	140	32.06	348.3		54.59
11	206	30.35	222.7		60.88
12	235	28.67	184.9		63.51
13	241	40.02	251.8		64.05
14	254	36.71	219.3		65.23
15	268	48.13	272.3		66.54
16	287	36.13	190.8		68.31
17	299	45.71	231.5		69.44
18	309	29.59	144.9		70.26
19	315	34.64	166.6		70.71
20	339	39.21	175.0		72.66
21	351	30.36	131.1		73.56
22	373	35.96	146.1		75.33
23	384	27.62	109.0		76.19
24	418	37.30	135.2		78.50
25	428	35.70	126.3		79.09

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-09\2015-06-09\_001.xad

Created: 6/9/2015 10:09:11 AM  
 Modified: 6/9/2015 10:33:20 AM

**Electropherogram Summary Continued ...**

**... Peak table for sample 1 : endosperm 4x**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	440	30.95	106.6		79.77
27	469	60.46	195.1		81.44
28	483	41.18	129.2		82.21
29	511	37.31	110.6		83.71
30	526	39.52	113.8		84.43
31	545	37.15	103.2		85.34
32	560	37.89	102.6		86.01
33	581	76.12	198.6		87.01
34	599	32.21	81.5		87.87
35	670	46.24	104.6		90.09
36	698	39.83	86.4		90.95
37	743	36.53	74.5		91.58
38	887	39.04	66.7		93.49
39	1,020	42.95	63.8		95.12
40	1,195	69.29	87.8		96.20
41	1,400	27.13	29.4		97.47
42	1,707	22.33	19.8		99.37
43	1,926	21.80	17.2		100.73
44	2,331	11.76	7.6		102.27
45	2,762	17.16	9.4		103.67
46	3,168	8.47	4.1		104.67
47	6,412	2.92	0.7		108.92
48	10,380	75.00	10.9	Upper Marker	113.00

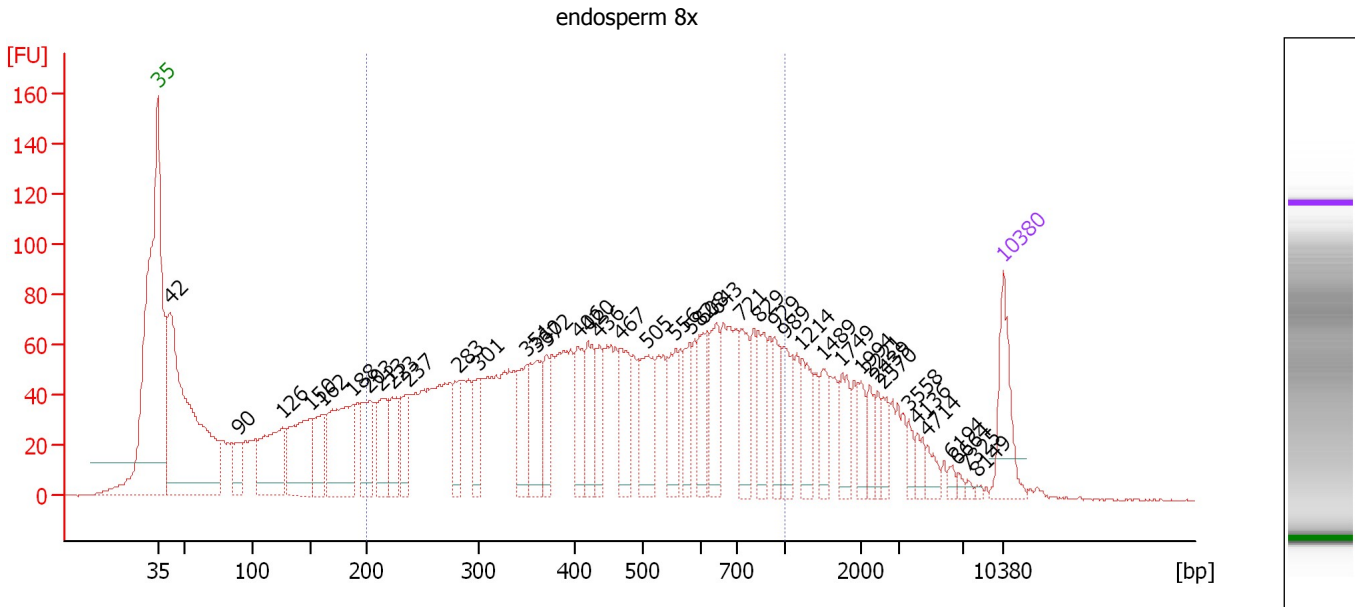
**Region table for sample 1 : endosperm 4x**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
200	508	1,000	1,072.5	6,633.7	54	40.0	1,727.43

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-09\2015-06-09\_001.xad

Created: 6/9/2015 10:09:11 AM  
 Modified: 6/9/2015 10:33:20 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : endosperm 8x**

Number of peaks found: 42                      Corr. Area 1: 2,508.8  
 Noise: 0.4

**Peak table for sample 2 : endosperm 8x**

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	42	738.46	26,695.4		44.04
3	90	67.14	1,127.4		49.78
4	126	196.82	2,364.5		53.33
5	150	193.18	1,947.5		55.61
6	162	99.62	932.4		56.70
7	188	221.30	1,782.9		59.16
8	203	98.04	732.8		60.54
9	213	88.32	626.8		61.53
10	223	82.47	559.7		62.43
11	237	76.88	491.2		63.71
12	283	64.44	345.2		67.93
13	301	58.28	293.5		69.59
14	351	91.73	396.1		73.57
15	360	98.49	414.0		74.33
16	372	58.58	238.8		75.23
17	406	80.57	300.5		77.83
18	420	85.48	308.1		78.64
19	436	61.81	214.7		79.54
20	467	92.66	300.7		81.29
21	505	112.83	338.4		83.43
22	556	70.62	192.4		85.84
23	582	59.89	155.9		87.08
24	608	62.81	156.6		88.17
25	643	78.16	184.2		89.26

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-09\2015-06-09\_001.xad

Created: 6/9/2015 10:09:11 AM  
 Modified: 6/9/2015 10:33:20 AM

**Electropherogram Summary Continued ...**

**... Peak table for sample 2 : endosperm 8x**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	721	75.76	159.1		91.29
27	829	66.61	121.8		92.72
28	929	46.68	76.2		94.04
29	989	63.77	97.7		94.85
30	1,214	59.76	74.6		96.32
31	1,489	42.22	43.0		98.02
32	1,749	46.35	40.2		99.64
33	1,994	28.54	21.7		101.15
34	2,221	25.47	17.4		101.91
35	2,439	22.45	13.9		102.62
36	2,570	21.60	12.7		103.05
37	3,558	17.37	7.4		105.18
38	4,136	18.43	6.8		105.94
39	4,714	17.79	5.7		106.70
40	6,194	7.33	1.8		108.64
41	6,664	5.36	1.2		109.26
42	7,325	3.81	0.8		110.01
43	8,149	3.02	0.6		110.82
44	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 2 : endosperm 8x**

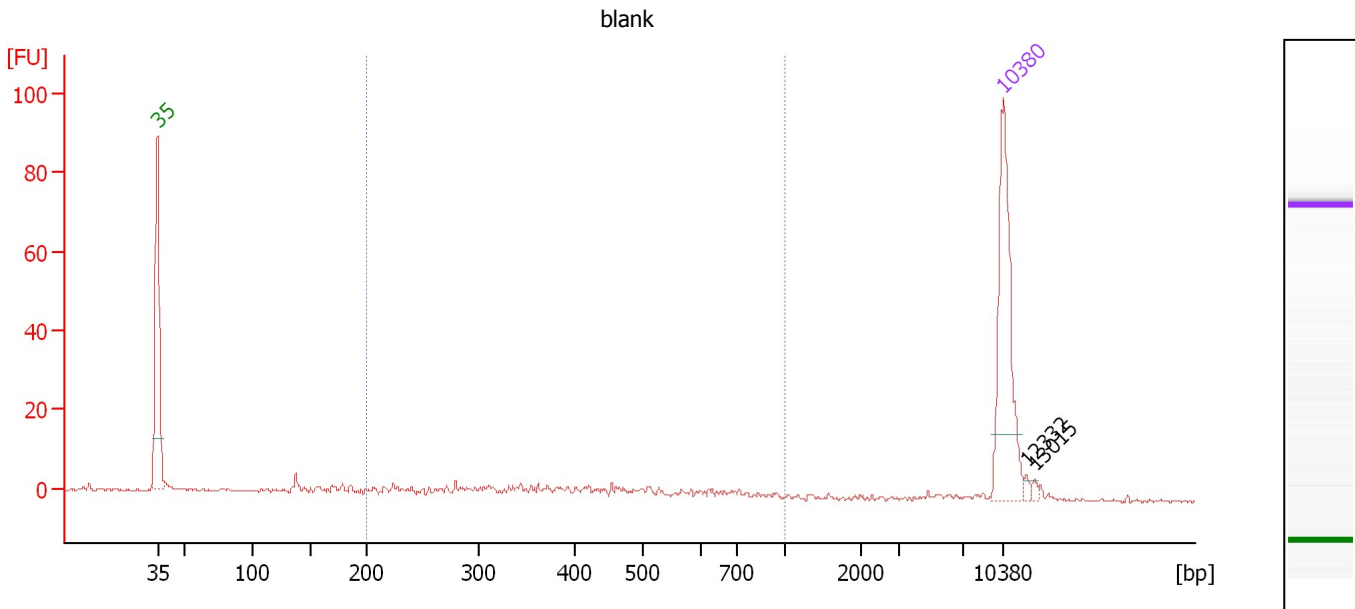
From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
200	478	1,000	2,508.8	12,584.9	60	41.1	3,114.04



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-09\2015-06-09\_001.xad

Created: 6/9/2015 10:09:11 AM  
 Modified: 6/9/2015 10:33:20 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : blank**

Number of peaks found: 2                      Corr. Area 1: 51.0  
 Noise: 0.3

**Peak table for sample 3 : blank**

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	10,380	75.00	10.9	Upper Marker	113.00
3	12,332	0.00	0.0		114.91
4	13,015	0.00	0.0		115.57

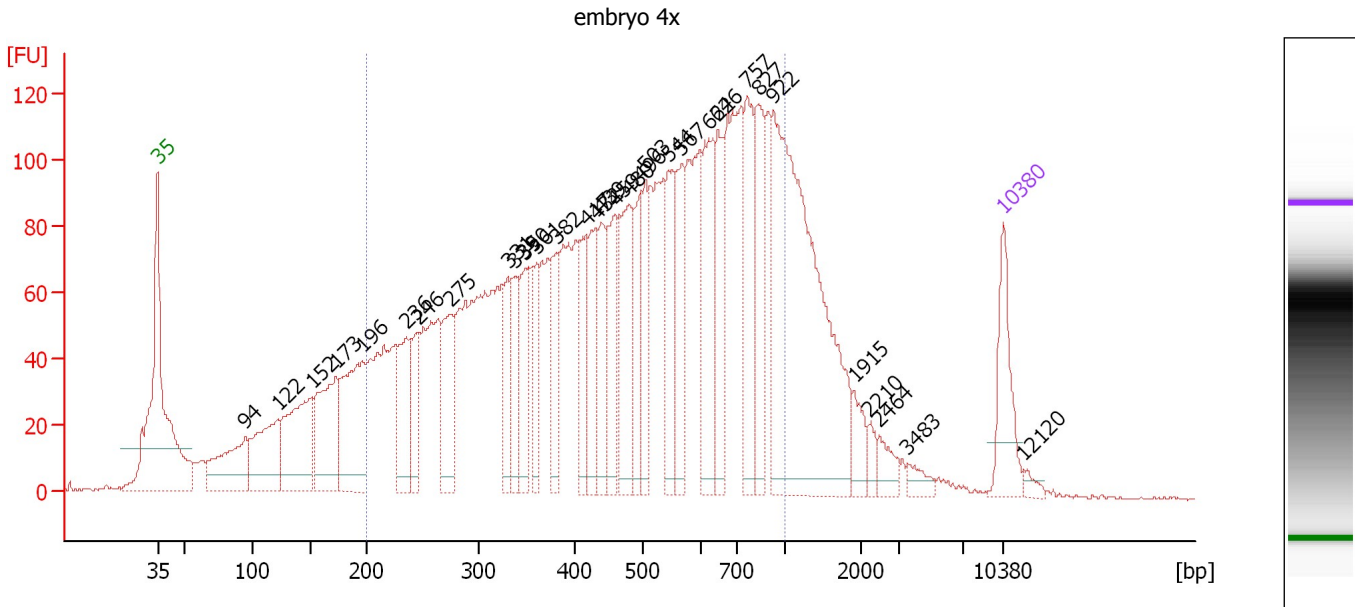
**Region table for sample 3 : blank**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
200	422	1,000	51.0	231.7	59	36.4	54.13

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-09\2015-06-09\_001.xad

Created: 6/9/2015 10:09:11 AM  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : embryo 4x**

Number of peaks found: 32                      Corr. Area 1: 3,547.9  
 Noise: 0.4

**Peak table for sample 4 : embryo 4x**

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	94	155.90	2,503.9		50.24
3	122	163.55	2,028.6		52.96
4	152	216.57	2,157.5		55.78
5	173	194.44	1,700.5		57.77
6	196	214.63	1,655.2		59.95
7	236	126.61	813.3		63.60
8	246	80.59	495.6		64.57
9	275	122.68	675.1		67.24
10	331	76.46	349.8		72.00
11	339	76.35	341.1		72.63
12	350	88.40	383.2		73.46
13	361	76.41	320.6		74.38
14	382	88.18	349.9		76.03
15	417	83.59	303.6		78.46
16	432	102.94	361.3		79.29
17	439	98.13	338.4		79.72
18	459	86.54	285.7		80.84
19	480	163.87	517.0		82.06
20	496	83.75	255.6		82.98
21	503	86.96	262.0		83.32
22	544	118.21	329.3		85.26
23	567	103.27	275.8		86.38
24	622	139.16	338.9		88.61
25	646	108.55	254.7		89.34

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-09\2015-06-09\_001.xad

Created: 6/9/2015 10:09:11 AM  
 Modified: 6/9/2015 10:33:20 AM

**Electropherogram Summary Continued ...**

**... Peak table for sample 4 : embryo 4x**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	757	136.14	272.3		91.77
27	827	122.66	224.7		92.69
28	922	576.23	946.8		93.96
29	1,915	32.48	25.7		100.66
30	2,210	14.96	10.3		101.88
31	2,464	23.17	14.2		102.70
32	3,483	15.95	6.9		105.08
33	10,380	75.00	10.9	Upper Marker	113.00
34	12,120	0.00	0.0		114.70

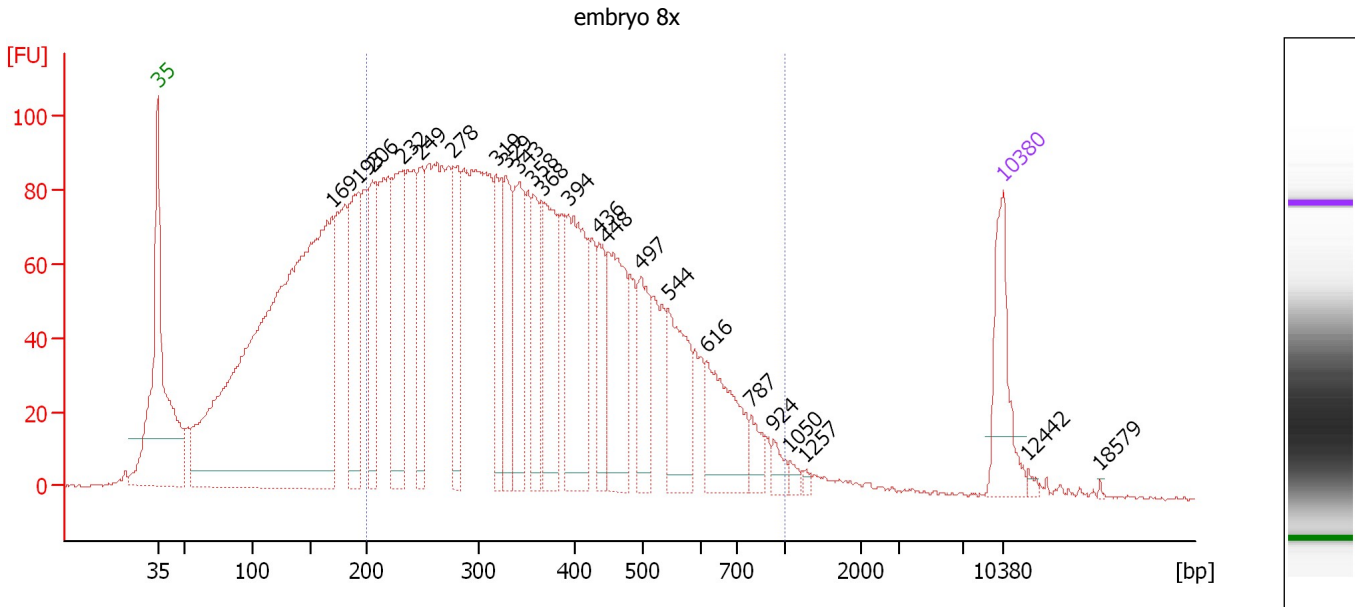
**Region table for sample 4 : embryo 4x**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
200	506	1,000	3,547.9	16,568.8	75	39.6	4,346.37

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-09\2015-06-09\_001.xad

Created: 6/9/2015 10:09:11 AM  
 Modified: 6/9/2015 10:33:20 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : embryo 8x**

Number of peaks found: 23                      Corr. Area 1: 3,121.6  
 Noise: 0.4

**Peak table for sample 5 : embryo 8x**


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	169	1,366.12	12,220.4		57.40
3	193	192.31	1,506.6		59.66
4	206	129.23	952.7		60.79
5	232	195.74	1,277.5		63.25
6	249	121.16	736.7		64.83
7	278	112.94	615.6		67.48
8	319	106.26	504.9		71.02
9	329	115.51	531.4		71.86
10	343	130.06	574.6		72.94
11	358	96.79	409.9		74.12
12	368	154.17	635.4		74.90
13	394	193.06	742.0		77.02
14	436	66.87	232.5		79.52
15	448	154.84	523.7		80.21
16	497	86.19	262.7		83.01
17	544	121.68	338.8		85.28
18	616	114.68	282.1		88.42
19	787	25.73	49.6		92.16
20	924	15.46	25.4		93.98
21	1,050	7.65	11.0		95.30
22	1,257	4.07	4.9		96.58
23	10,380	75.00	10.9	Upper Marker	113.00
24	12,442	0.00	0.0		115.02
25	18,579	0.00	0.0		121.01

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-09\2015-06-09\_001.xad

Created: 6/9/2015 10:09:11 AM  
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**Electropherogram Summary Continued ...**

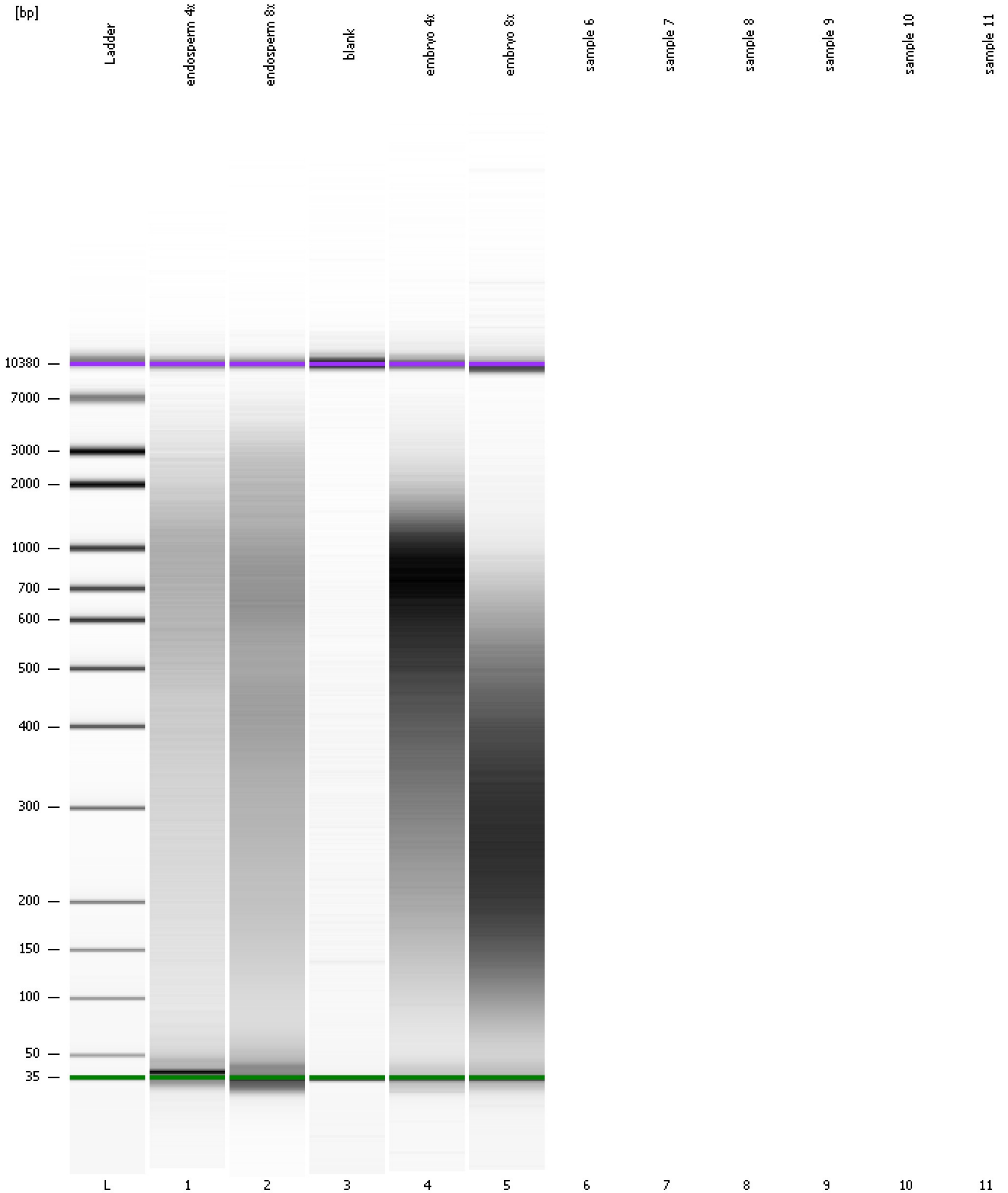
... Region table for sample 5 : embryo 8x

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
200	377	1,000	3,121.6	17,060.3	 67	37.8	3,589.52

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-09\2015-06-09\_001.xad

Created: 6/9/2015 10:09:11 AM  
Modified: 6/9/2015 10:33:20 AM

**Gel Image**

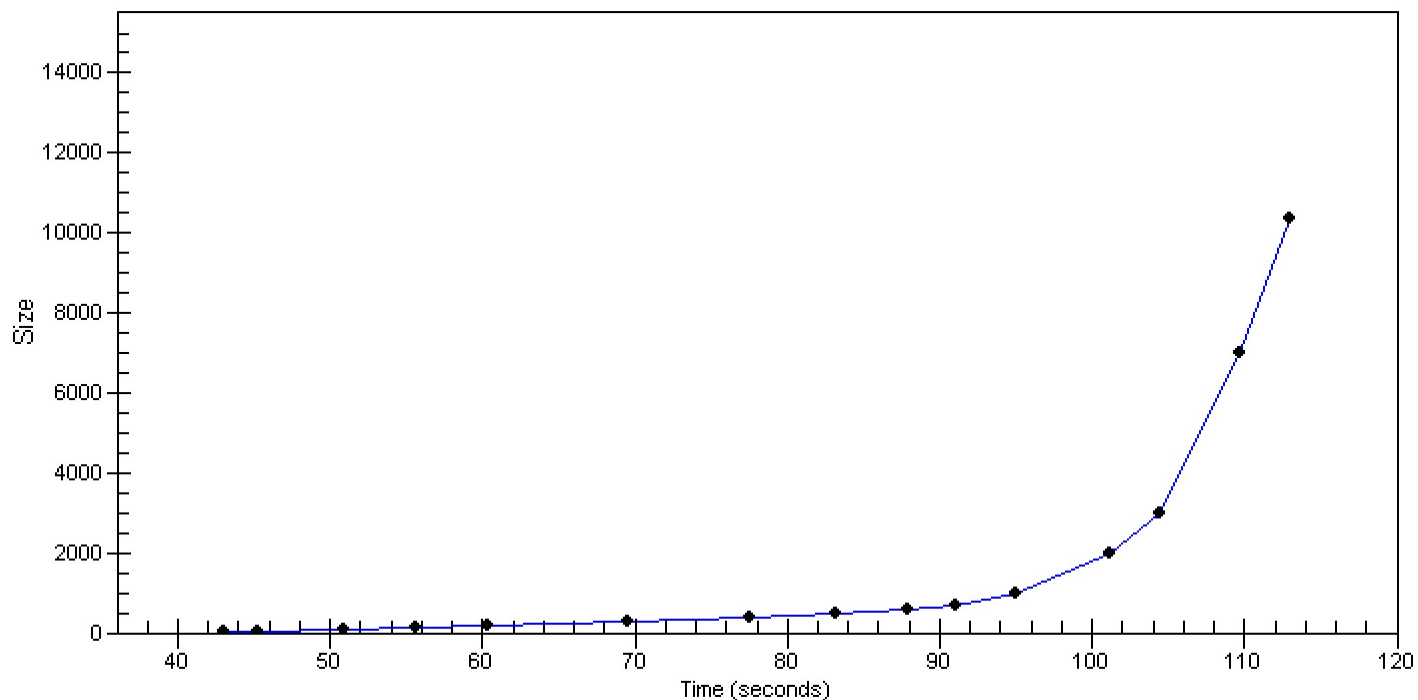


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-09\2015-06-09\_001.xad

Created: 6/9/2015 10:09:11 AM  
Modified: 6/9/2015 10:33:20 AM

**Curves**

**Standard Curve**



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-09\2015-06-09\_001.xad

Created: 6/9/2015 10:09:11 AM  
Modified: 6/9/2015 10:33:20 AM

**Invalid Samples**

Sample 6 has not been run, no results available.

Sample 7 has not been run, no results available.

Sample 8 has not been run, no results available.

Sample 9 has not been run, no results available.

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.