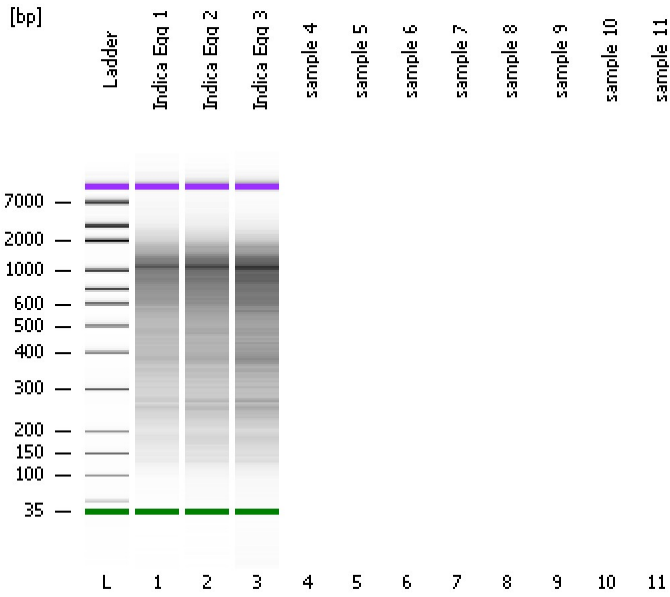


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-23\2014-07-23\_005.xad

Created: 7/23/2014 2:38:20 PM  
Modified: 7/23/2014 2:58:00 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

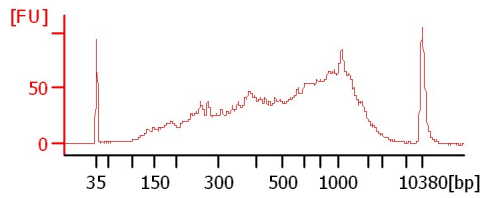
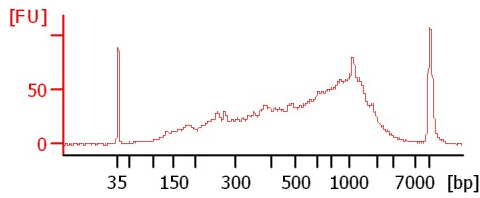
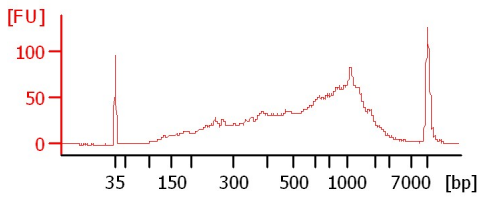
Chip Information:

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

**Indica Egg 1**

**Indica Egg 2**

**Indica Egg 3**



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-23\2014-07-23\_005.xad

Created: 7/23/2014 2:38:20 PM  
 Modified: 7/23/2014 2:58:00 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Indica Egg 1		<input type="checkbox"/>	✓			
Indica Egg 2		<input type="checkbox"/>	✓			
Indica Egg 3		<input type="checkbox"/>	✓			
sample 4		<input type="checkbox"/>				
sample 5		<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:\... bioanalyzer\2100 expert\Data\2014-07-23\2014-07-23\_005.xad

Created: 7/23/2014 2:38:20 PM  
Modified: 7/23/2014 2:58:00 PM

**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

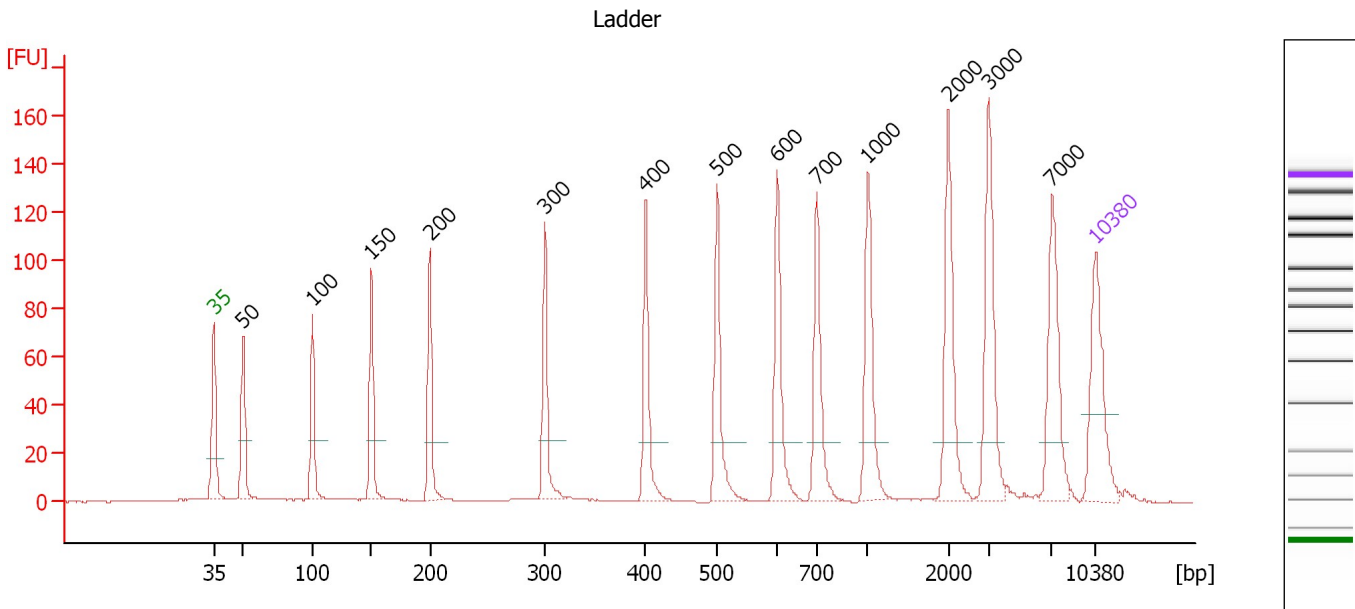
**Ladder**

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:\... bioanalyzer\2100 expert\Data\2014-07-23\2014-07-23\_005.xad

Created: 7/23/2014 2:38:20 PM  
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**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.1

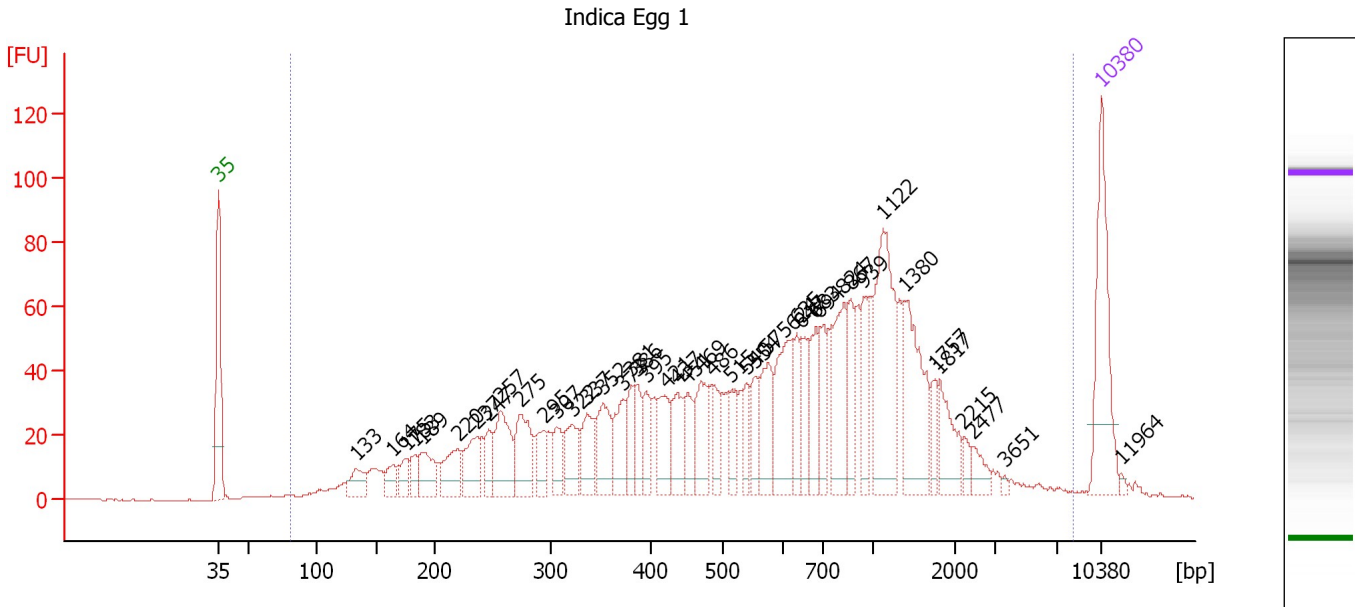
**Peak table for Ladder**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	50	150.00	4,545.5	Ladder Peak
3	100	150.00	2,272.7	Ladder Peak
4	150	150.00	1,515.2	Ladder Peak
5	200	150.00	1,136.4	Ladder Peak
6	300	150.00	757.6	Ladder Peak
7	400	150.00	568.2	Ladder Peak
8	500	150.00	454.5	Ladder Peak
9	600	150.00	378.8	Ladder Peak
10	700	150.00	324.7	Ladder Peak
11	1,000	150.00	227.3	Ladder Peak
12	2,000	150.00	113.6	Ladder Peak
13	3,000	150.00	75.8	Ladder Peak
14	7,000	150.00	32.5	Ladder Peak
15	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-23\2014-07-23\_005.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : Indica Egg 1**

Number of peaks found: 44                      Corr. Area 1: 2,041.9  
 Noise: 0.2

**Peak table for sample 1 : Indica Egg 1**


Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	133	27.16	310.1	
3	164	18.35	169.0	
4	175	18.34	158.3	
5	183	16.92	140.2	
6	189	38.39	307.4	
7	220	38.58	265.5	
8	237	42.58	272.5	
9	247	22.52	138.2	
10	257	64.17	378.1	
11	275	58.25	321.3	
12	295	25.26	129.7	
13	307	25.51	125.9	
14	322	38.46	180.8	
15	337	40.41	181.9	
16	352	46.49	199.9	
17	373	38.37	156.1	
18	381	25.19	100.2	
19	386	26.85	105.4	
20	395	24.99	95.8	
21	421	37.81	136.1	
22	437	39.21	136.1	
23	451	29.51	99.0	
24	469	43.21	139.5	
25	486	29.32	91.3	
26	515	26.07	76.7	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-23\2014-07-23\_005.xad

Created: 7/23/2014 2:38:20 PM  
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**Electropherogram Summary Continued ...**

**... Peak table for sample 1 : Indica Egg 1**

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
27	540	21.83	61.3	
28	554	24.21	66.2	
29	575	45.74	120.5	
30	624	70.03	170.1	
31	635	26.68	63.7	
32	647	30.75	72.0	
33	683	37.95	84.2	
34	694	35.05	76.5	
35	824	63.62	117.0	
36	867	34.14	59.6	
37	939	33.46	54.0	
38	1,122	114.54	154.6	
39	1,380	80.62	88.5	
40	1,757	15.19	13.1	
41	1,817	33.59	28.0	
42	2,215	8.28	5.7	
43	2,477	11.79	7.2	
44	3,651	1.92	0.8	
45	 10,380	75.00	10.9	Upper Marker
46	11,964	0.00	0.0	

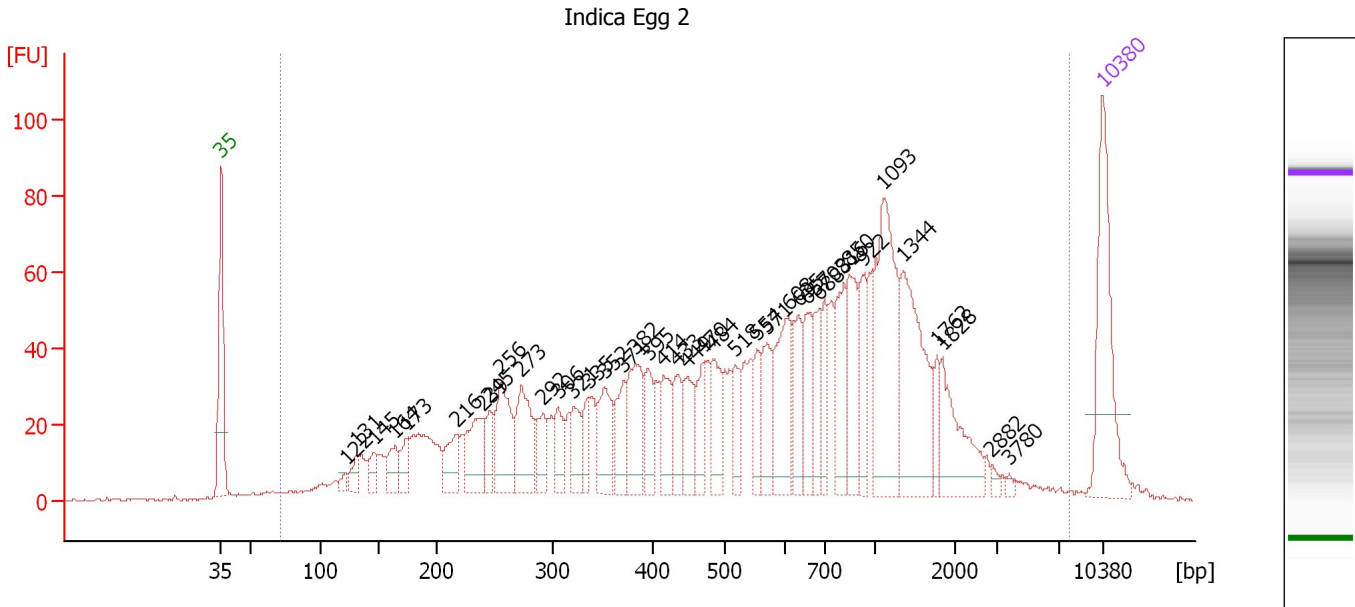
**Region table for sample 1 : Indica Egg 1**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
80	8,279	798	7,144.1	1,843.99	 2,041.9	99	88.9

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-23\2014-07-23\_005.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : Indica Egg 2**

Number of peaks found: 40                      Corr. Area 1: 2,116.4  
 Noise: 0.4

**Peak table for sample 2 : Indica Egg 2**


Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	122	7.52	93.3	
3	131	16.75	193.7	
4	145	16.68	173.7	
5	164	26.32	243.5	
6	173	22.72	199.0	
7	216	32.87	230.4	
8	239	52.65	333.3	
9	245	21.99	135.8	
10	256	66.30	392.4	
11	273	64.27	357.1	
12	292	29.39	152.4	
13	306	28.24	139.9	
14	321	28.59	134.9	
15	335	20.03	90.5	
16	352	47.70	205.4	
17	371	34.40	140.5	
18	382	56.53	224.2	
19	395	33.09	126.9	
20	414	35.65	130.4	
21	433	29.43	103.0	
22	449	34.35	116.0	
23	470	26.75	86.2	
24	484	33.28	104.3	
25	518	26.42	77.3	
26	554	23.10	63.2	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-23\2014-07-23\_005.xad

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**Electropherogram Summary Continued ...**

**... Peak table for sample 2 : Indica Egg 2**

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
27	571	36.73	97.5	
28	608	62.28	155.2	
29	635	36.40	86.8	
30	657	35.35	81.6	
31	688	28.21	62.1	
32	703	27.21	58.6	
33	816	45.56	84.6	
34	850	49.70	88.6	
35	922	31.36	51.5	
36	1,093	116.95	162.2	
37	1,344	96.77	109.1	
38	1,762	13.90	12.0	
39	1,828	48.65	40.3	
40	2,882	3.76	2.0	
41	3,780	2.43	1.0	
42	 10,380	75.00	10.9	Upper Marker

**Region table for sample 2 : Indica Egg 2**

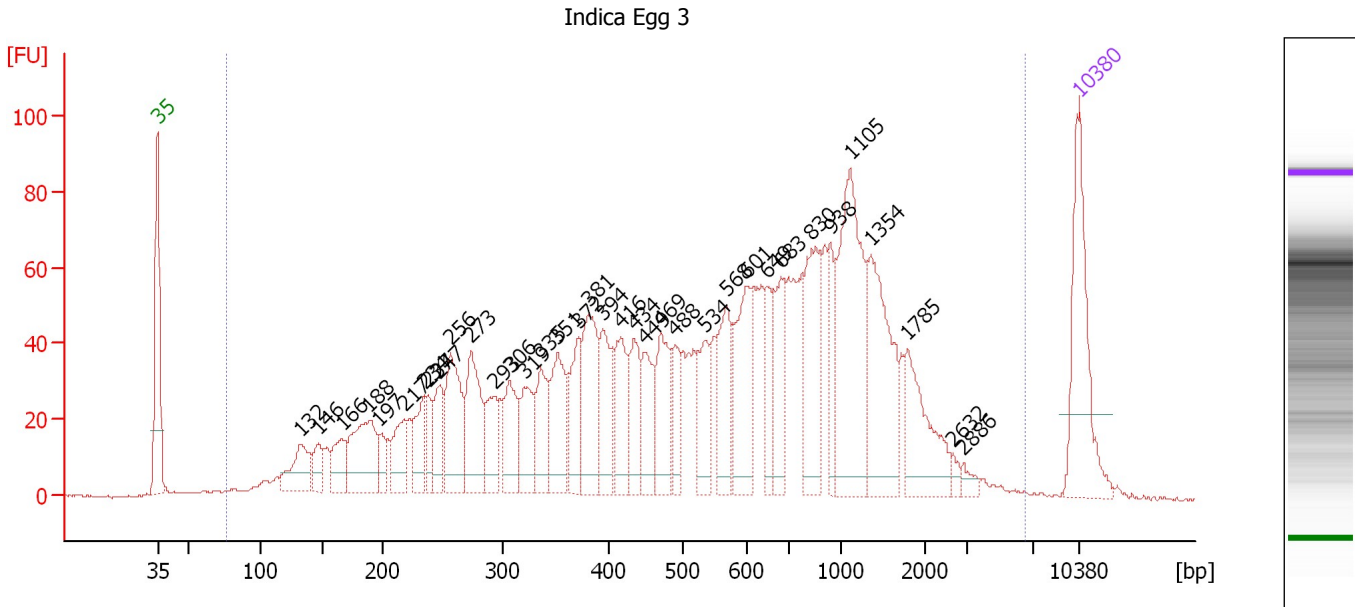
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Co Corr. for Area	% of Total	Size distribution in CV [%]
72	7,697	771	8,141.9	1,928.96	 2,116.4	99	90.9



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-23\2014-07-23\_005.xad

Created: 7/23/2014 2:38:20 PM  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : Indica Egg 3**

Number of peaks found: 36      Corr. Area 1: 2,439.0  
 Noise: 0.4

**Peak table for sample 3 : Indica Egg 3**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	132	49.33	567.3	
3	146	23.57	243.9	
4	166	33.02	301.4	
5	188	82.93	667.0	
6	197	16.40	126.2	
7	217	35.95	251.0	
8	234	38.72	250.7	
9	237	24.66	157.5	
10	247	35.73	219.4	
11	256	80.78	478.7	
12	273	73.82	409.6	
13	293	41.04	212.3	
14	306	48.11	238.3	
15	319	43.44	206.1	
16	335	45.11	203.7	
17	351	57.73	249.1	
18	372	46.27	188.7	
19	381	76.14	303.0	
20	394	52.80	203.0	
21	416	47.72	173.8	
22	434	40.49	141.5	
23	449	42.44	143.3	
24	469	49.56	160.0	
25	488	27.68	85.9	
26	534	39.09	111.0	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-23\2014-07-23\_005.xad


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**Electropherogram Summary Continued ...**

**... Peak table for sample 3 : Indica Egg 3**

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
27	568	51.34	136.9	
28	601	78.71	198.5	
29	649	33.52	78.3	
30	683	48.17	106.8	
31	830	74.63	136.2	
32	938	29.89	48.3	
33	1,105	133.77	183.5	
34	1,354	93.10	104.2	
35	1,785	56.08	47.6	
36	2,632	4.60	2.6	
37	2,886	5.86	3.1	
38	10,380	75.00	10.9	Upper Marker

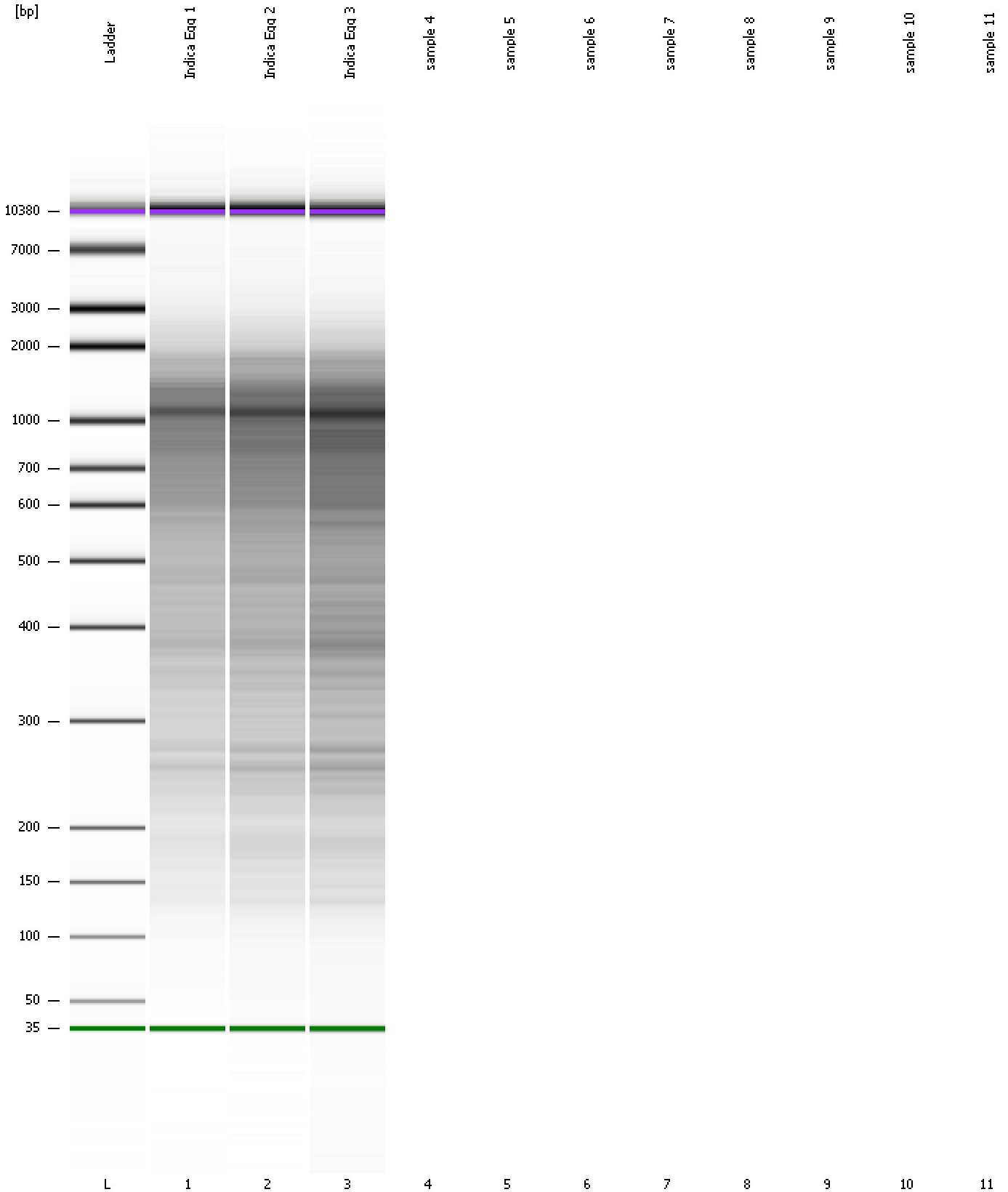
**Region table for sample 3 : Indica Egg 3**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
77	6,460	726	9,111.1	2,174.49	 2,439.0	99	83.1

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-23\2014-07-23\_005.xad

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**Gel Image**



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-23\2014-07-23\_005.xad

Created: 7/23/2014 2:38:20 PM  
Modified: 7/23/2014 2:58:00 PM

**Invalid Samples**

Sample 4 has not been run, no results available.

Sample 5 has not been run, no results available.

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.

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-23\2014-07-23\_005.xad

Created: 7/23/2014 2:38:20 PM  
 Modified: 7/23/2014 2:58:00 PM

**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 4)		Instrument	Run		7/23/2014 2:56:47 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\2014-07-23\2014-07-23_005.xad)		Instrument	Run		7/23/2014 2:38:26 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		7/23/2014 2:38:26 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		7/23/2014 2:38:26 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		7/23/2014 2:38:26 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		7/23/2014 2:38:26 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		7/23/2014 2:38:26 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		7/23/2014 2:38:26 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1