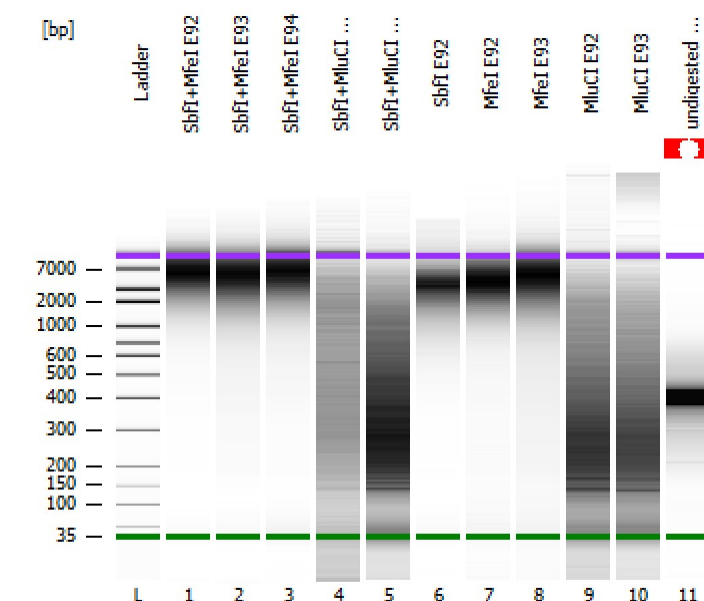


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ENR\Desktop\2014-04-07\_surflam HS DNA Assay\_DE72901330.xad

Created: 4/7/2014 2:22:30 PM  
Modified: 4/8/2014 2:53:53 PM

### Electrophoresis File Run Summary



#### Instrument Information:

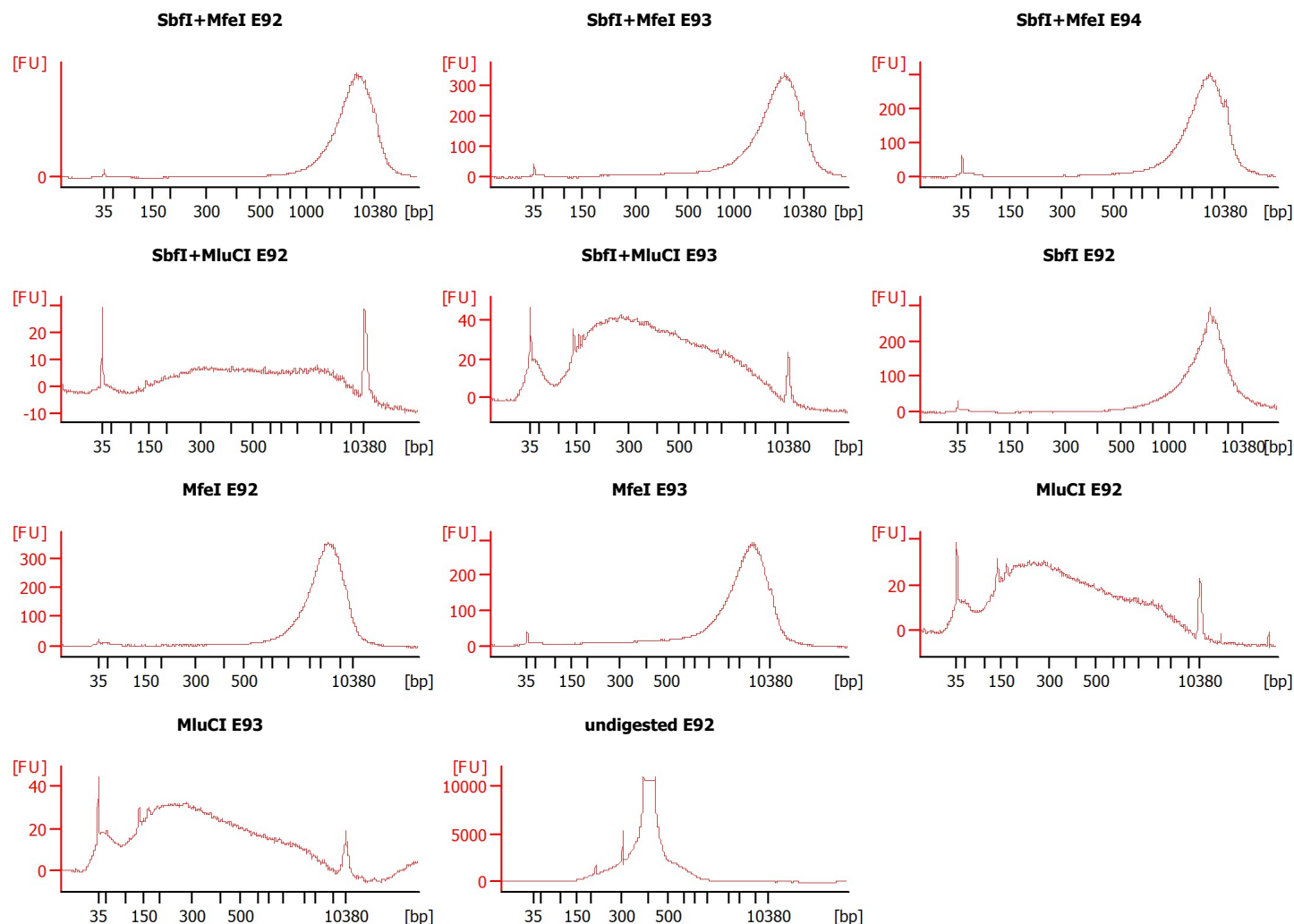
Instrument Name: DE72901330  
Serial#: DE72901330  
Firmware: C.01.069  
Type: G2939A

#### 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 #: 1349  
Reagent Kit Lot #: 1349  
Chip Comments:



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ENR\Desktop\2014-04-07\_surflam HS DNA Assay\_DE72901330.xad

Created: 4/7/2014 2:22:30 PM  
Modified: 4/8/2014 2:53:53 PM

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

Sample Name	Sample Comment	Rest. Digest	Status Observation	Result Label	Result Color
SbfI+MfeI E92		<input type="checkbox"/>	✓		
SbfI+MfeI E93		<input type="checkbox"/>	✓		
SbfI+MfeI E94		<input type="checkbox"/>	✓		
SbfI+MluCI E92		<input type="checkbox"/>	✓		
SbfI+MluCI E93		<input type="checkbox"/>	✓		
SbfI E92		<input type="checkbox"/>	✓		
MfeI E92		<input type="checkbox"/>	✓		
MfeI E93		<input type="checkbox"/>	✓		
MluCI E92		<input type="checkbox"/>	✓		
MluCI E93		<input checked="" type="checkbox"/>	✓		
undigested E92		<input type="checkbox"/>	⚠		
Ladder		<input type="checkbox"/>	✓		

**Chip Lot #****Reagent Kit Lot #**

1349

**Chip Comments :**

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ENR\Desktop\2014-04-07\_surflam HS DNA Assay\_DE72901330.xad

Created: 4/7/2014 2:22:30 PM  
Modified: 4/8/2014 2:53:53 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/ $\mu$ l] : 1950  
Uses Standard Area for Ladder Fragments  
Lower Marker Concentration [pg/ $\mu$ l] : 125  
Upper Marker Concentration [pg/ $\mu$ l] : 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

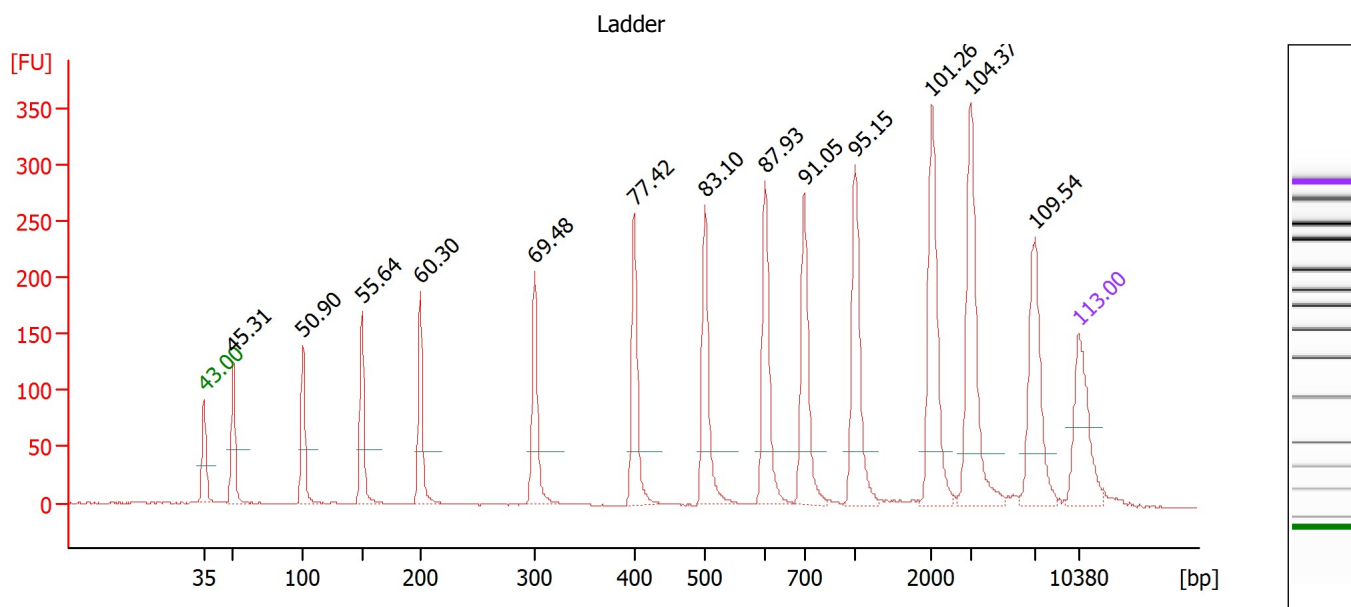
### Ladder

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:\...ENR\Desktop\2014-04-07\_surflam HS DNA Assay\_DE72901330.xad

Created: 4/7/2014 2:22:30 PM  
 Modified: 4/8/2014 2:53:53 PM

### Electropherogram Summary



### Overall Results for Ladder

Noise: 0.2

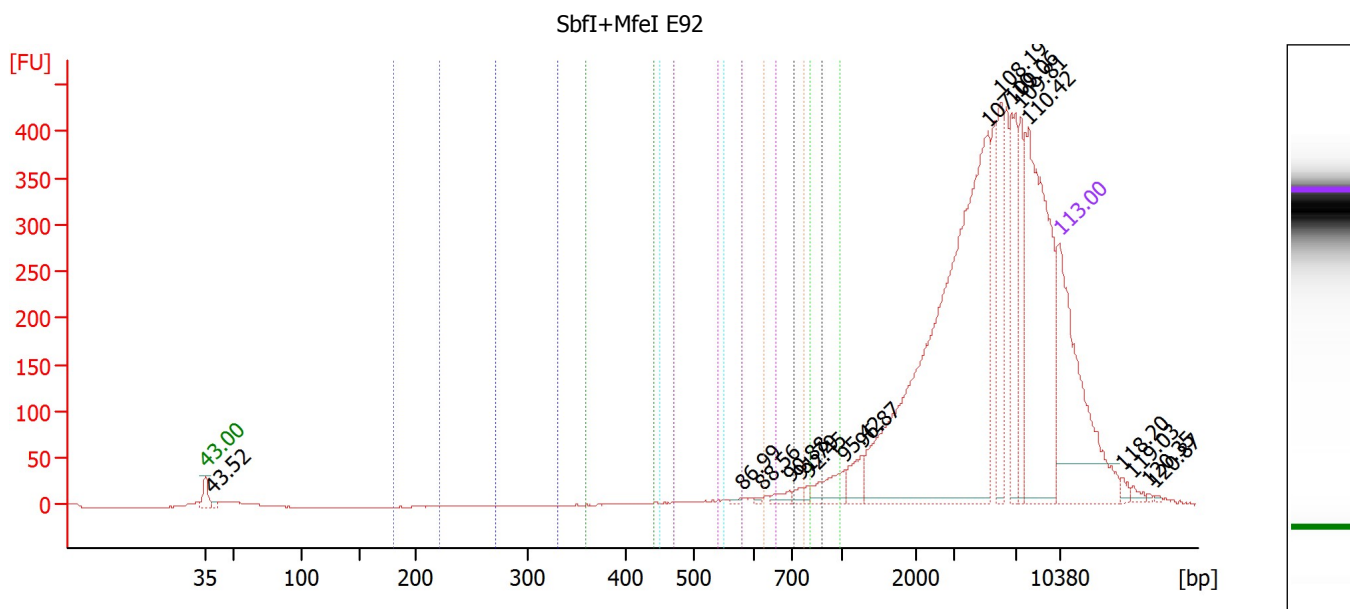
### Peak table for Ladder

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:\...ENR\Desktop\2014-04-07\_surflam HS DNA Assay\_DE72901330.xad

Created: 4/7/2014 2:22:30 PM  
 Modified: 4/8/2014 2:53:53 PM

### Electropherogram Summary Continued ...



### Overall Results for sample 1 : SbfI+MfeI E92

Number of peaks found:	17	Corr. Area 5:	34.8
Noise:	0.3	Corr. Area 6:	43.1
Corr. Area 1:	0.0	Corr. Area 7:	45.5
Corr. Area 2:	0.0	Corr. Area 8:	69.6
Corr. Area 3:	1.6	Corr. Area 9:	21.7
Corr. Area 4:	15.2		

### Peak table for sample 1 : SbfI+MfeI E92

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	38	2.42	95.3	
3	580	0.95	2.5	
4	620	0.88	2.2	
5	695	4.02	8.8	
6	755	2.52	5.1	
7	803	1.83	3.5	
8	1,045	12.40	18.0	
9	1,281	10.05	11.9	
10	5,109	263.86	78.3	
11	5,955	38.06	9.7	
12	6,632	37.32	8.5	
13	7,262	29.32	6.1	
14	7,860	108.11	20.8	
15	10,380	75.00	10.9	Upper Marker
16	15,464	0.00	0.0	
17	16,275	0.00	0.0	
18	17,557	0.00	0.0	
19	18,069	0.00	0.0	










Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ENR\Desktop\2014-04-07\_surfciam HS DNA Assay\_DE72901330.xad

Created: 4/7/2014 2:22:30 PM  
 Modified: 4/8/2014 2:53:53 PM

**Electropherogram Summary Continued ...**

... Region table for sample 1 :

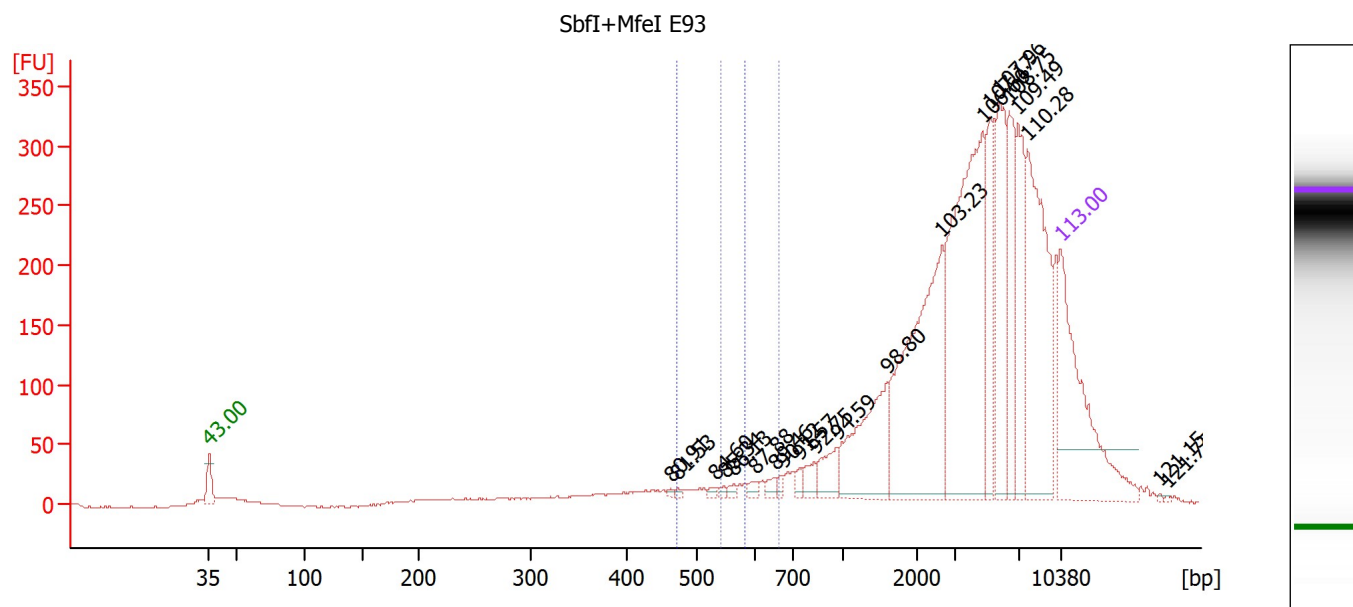
**SbfI+MfeI E92**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
180	220	0.0	0	0	0.0	0.00	0.0	
270	330	0.0	0	0	0.0	0.00	0.0	
360	440	1.6	0	425	2.3	0.28	1.0	
450	550	15.2	0	507	5.5	2.68	8.0	
471	581	21.7	1	535	6.0	3.73	10.6	
540	660	34.8	1	602	5.6	5.76	14.6	
630	770	43.1	1	694	5.6	7.21	15.8	
720	880	45.5	1	802	5.9	7.39	14.0	
810	990	69.6	2	906	5.8	10.80	18.1	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ENR\Desktop\2014-04-07\_surflam HS DNA Assay\_DE72901330.xad

Created: 4/7/2014 2:22:30 PM  
 Modified: 4/8/2014 2:53:53 PM

### Electropherogram Summary Continued ...



### Overall Results for sample 2 : SbfI+MfeI E93

Number of peaks found: 21      Corr. Area 1: 103.0  
 Noise: 0.7      Corr. Area 2: 96.3



### Peak table for sample 2 : SbfI+MfeI E93

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	461	1.18	3.9	
3	472	1.52	4.9	
4	531	1.80	5.1	
5	546	1.77	4.9	
6	563	2.16	5.8	
7	599	2.96	7.5	
8	649	3.76	8.8	
9	670	2.69	6.1	
10	738	3.74	7.7	
11	825	8.24	15.1	
12	959	14.27	22.5	
13	1,598	55.28	52.4	
14	2,632	122.28	70.4	
15	4,724	159.16	51.0	
16	5,165	33.73	9.9	
17	5,776	54.56	14.3	
18	6,387	41.09	9.7	
19	6,964	41.46	9.0	
20	7,725	97.07	19.0	
21	10,380	75.00	10.9	Upper Marker
22	18,346	0.00	0.0	
23	18,945	0.00	0.0	

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ENR\Desktop\2014-04-07\_surfclam HS DNA Assay\_DE72901330.xad

Created: 4/7/2014 2:22:30 PM  
Modified: 4/8/2014 2:53:53 PM

**Electropherogram Summary Continued ...****... Region table for sample 2 :****SbfI+MfeI E93**

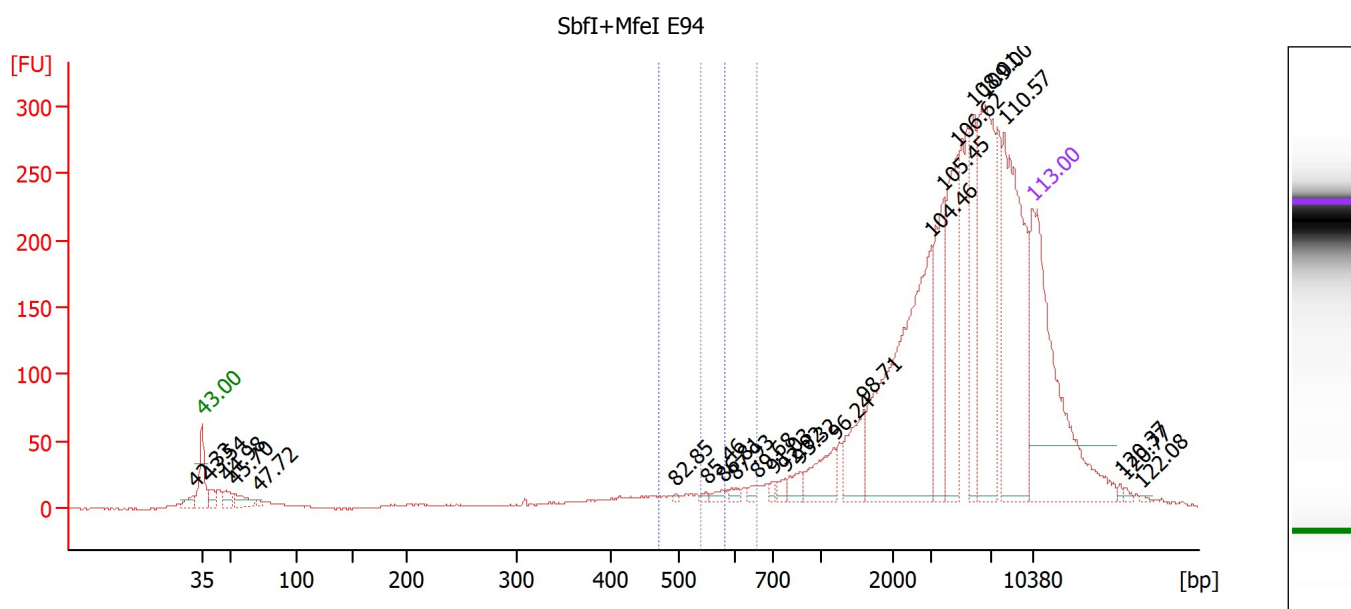
From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Co lor
471	581	96.3	2	526	6.2	22.43	64.9	
540	660	103.0	2	597	5.8	22.96	58.5	



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ENR\Desktop\2014-04-07\_surflam HS DNA Assay\_DE72901330.xad

Created: 4/7/2014 2:22:30 PM  
 Modified: 4/8/2014 2:53:53 PM

### Electropherogram Summary Continued ...



### Overall Results for sample 3 : SbfI+MfeI E94

Number of peaks found: 24      Corr. Area 1: 64.7  
 Noise: 0.5      Corr. Area 2: 57.8

### Peak table for sample 3 : SbfI+MfeI E94

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	33	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	39	6.14	241.5	
4	48	6.37	201.5	
5	53	8.94	253.2	
6	72	1.86	39.4	
7	496	0.77	2.4	
8	549	1.12	3.1	
9	577	2.20	5.8	
10	600	2.04	5.2	
11	656	2.22	5.1	
12	699	1.78	3.9	
13	771	2.97	5.8	
14	866	4.87	8.5	
15	1,179	14.96	19.2	
16	1,584	17.50	16.7	
17	3,070	99.23	49.0	
18	3,835	32.63	12.9	
19	4,739	41.06	13.1	
20	5,817	23.59	6.1	
21	6,583	66.21	15.2	
22	8,010	74.76	14.1	
23	10,380	75.00	10.9	Upper Marker
24	17,579	0.00	0.0	
25	17,974	0.00	0.0	
26	19,247	0.00	0.0	



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ENR\Desktop\2014-04-07\_surfclam HS DNA Assay\_DE72901330.xad

Created: 4/7/2014 2:22:30 PM  
Modified: 4/8/2014 2:53:53 PM

**Electropherogram Summary Continued ...**

... Region table for sample 3 :

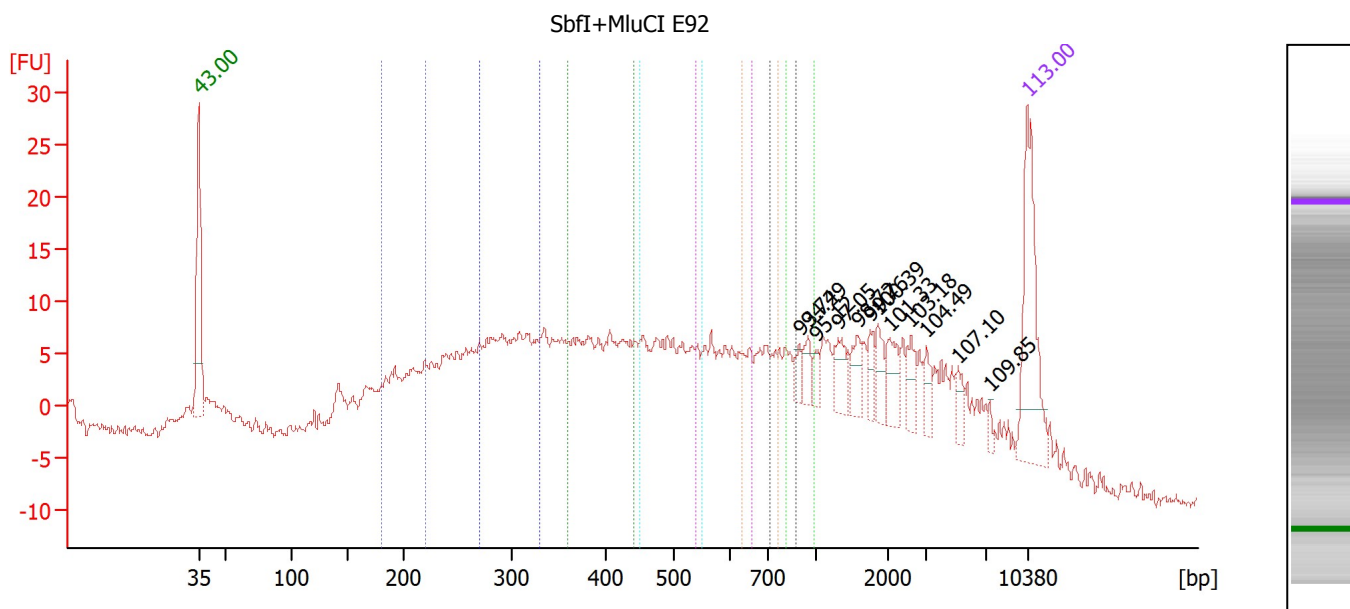
**SbfI+MfeI E94**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Co lor
471	581	57.8	2	528	6.2	11.08	32.0	
540	660	64.7	2	598	5.8	11.87	30.2	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ENR\Desktop\2014-04-07\_surflam HS DNA Assay\_DE72901330.xad

Created: 4/7/2014 2:22:30 PM  
 Modified: 4/8/2014 2:53:53 PM

### Electropherogram Summary Continued ...



### Overall Results for sample 4 : SbfI+MluCI E92

Number of peaks found:	12	Corr. Area 4:	77.8
Noise:	0.6	Corr. Area 5:	65.9
Corr. Area 1:	45.1	Corr. Area 6:	42.3
Corr. Area 2:	86.6	Corr. Area 7:	28.6
Corr. Area 3:	85.7	Corr. Area 8:	33.3

### Peak table for sample 4 : SbfI+MluCI E92

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	896	9.37	15.9	
3	952	11.97	19.1	
4	998	7.73	11.7	
5	1,312	20.48	23.6	
6	1,585	16.00	15.3	
7	1,755	11.42	9.9	
8	1,858	15.51	12.6	
9	2,025	19.75	14.8	
10	2,617	14.58	8.4	
11	3,088	11.49	5.6	
12	5,110	10.81	3.2	
13	7,299	4.16	0.9	
14	10,380	75.00	10.9	Upper Marker




### Region table for sample 4 : SbfI+MluCI E92

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
180	220	45.1	5	200	5.8	163.11	1,238.4	Blue
270	330	86.6	10	299	5.8	280.11	1,426.0	Green
360	440	85.7	10	397	5.8	249.03	955.3	Cyan
450	550	77.8	9	497	5.8	219.91	673.5	Magenta
540	660	65.9	8	592	5.8	175.28	450.3	Yellow

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ENR\Desktop\2014-04-07\_surfciam HS DNA Assay\_DE72901330.xad

Created: 4/7/2014 2:22:30 PM  
Modified: 4/8/2014 2:53:53 PM

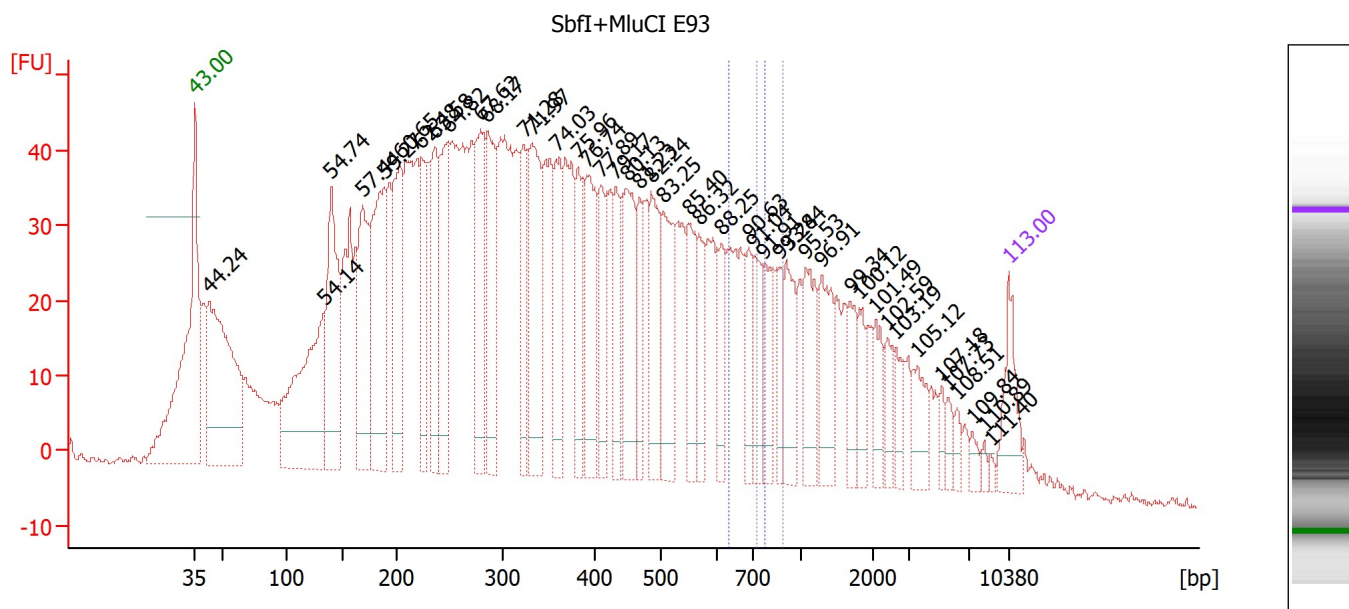
**Electropherogram Summary Continued ...****... Region table for sample 4 :****SbfI+MluCI E92**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Co lor
630	770	42.3	5	685	5.6	113.30	251.5	
720	880	28.6	3	797	5.8	74.50	142.3	
810	990	33.3	4	898	5.9	82.96	140.5	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ENR\Desktop\2014-04-07\_surflam HS DNA Assay\_DE72901330.xad

Created: 4/7/2014 2:22:30 PM  
 Modified: 4/8/2014 2:53:53 PM

### Electropherogram Summary Continued ...



### Overall Results for sample 5 : SbfI+MluCI E93

Number of peaks found: 44      Corr. Area 1: 72.2  
 Noise: 0.6      Corr. Area 2: 109.8

### Peak table for sample 5 : SbfI+MluCI E93

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	43	680.06	23,934.8	
3	134	513.10	5,794.9	
4	140	369.28	3,984.0	
5	169	306.55	2,743.2	
6	189	389.60	3,123.1	
7	204	273.33	2,031.8	
8	224	190.41	1,289.1	
9	236	215.46	1,384.6	
10	249	252.49	1,534.8	
11	280	243.35	1,318.1	
12	286	249.18	1,321.5	
13	323	144.57	678.8	
14	331	269.59	1,232.7	
15	357	167.30	709.4	
16	382	125.56	498.6	
17	391	196.94	762.4	
18	408	122.67	455.4	
19	431	103.53	364.2	
20	448	210.51	712.5	
21	467	97.39	315.9	
22	485	154.65	483.3	
23	503	178.12	536.5	
24	548	129.45	358.1	
25	567	74.99	200.5	
26	610	74.50	185.0	



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ENR\Desktop\2014-04-07\_surfcclam HS DNA Assay\_DE72901330.xad

Created: 4/7/2014 2:22:30 PM  
 Modified: 4/8/2014 2:53:53 PM

**Electropherogram Summary Continued ...****... Peak table for sample 5 : SbfI+MluCI E93**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	687	68.52	151.2	
28	700	92.04	199.3	
29	763	85.68	170.1	
30	861	58.13	102.3	
31	904	105.74	177.2	
32	1,063	109.93	156.6	
33	1,288	107.91	126.9	
34	1,686	54.76	49.2	
35	1,814	45.18	37.7	
36	2,077	49.49	36.1	
37	2,429	36.36	22.7	
38	2,621	37.29	21.6	
39	3,575	53.88	22.8	
40	5,171	18.97	5.6	
41	5,597	20.91	5.7	
42	6,200	16.83	4.1	
43	7,290	14.84	3.1	
44	8,320	8.56	1.6	
45	8,812	6.25	1.1	
46	10,380	75.00	10.9	Upper Marker

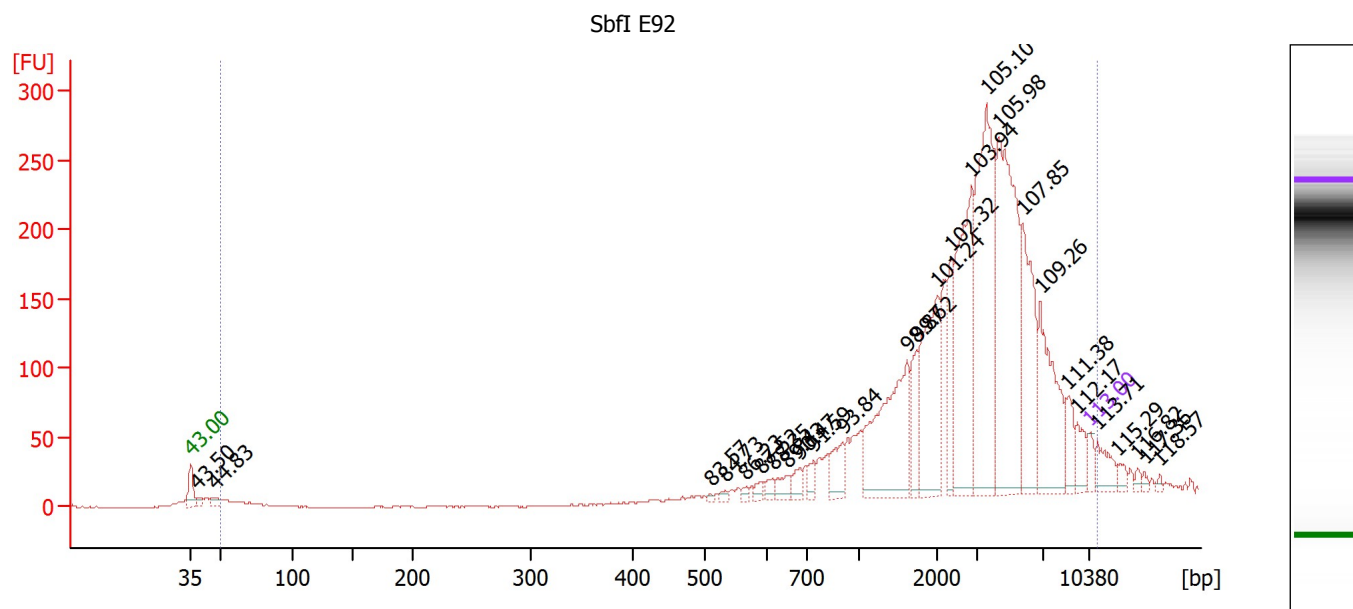
**Region table for sample 5 : SbfI+MluCI E93**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
630	770	109.8	4	684	5.5	356.92	792.5	
720	880	72.2	3	796	6.0	228.62	436.4	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ENR\Desktop\2014-04-07\_surflam HS DNA Assay\_DE72901330.xad

Created: 4/7/2014 2:22:30 PM  
 Modified: 4/8/2014 2:53:53 PM

### Electropherogram Summary Continued ...



### Overall Results for sample 6 : SbfI E92

Number of peaks found: 27      Corr. Area 1: 2,621.5  
 Noise: 0.3

### Peak table for sample 6 : SbfI E92

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	38	68.10	2,697.9	
3	47	86.76	2,803.2	
4	510	17.32	51.5	
5	534	31.41	89.2	
6	565	30.78	82.6	
7	591	53.68	137.5	
8	613	65.47	161.7	
9	648	114.16	266.9	
10	681	89.29	198.5	
11	740	79.88	163.6	
12	904	215.82	361.7	
13	1,609	1,037.23	976.7	
14	1,732	248.05	217.1	
15	1,997	809.38	614.1	
16	2,341	355.36	230.0	
17	2,861	1,091.46	578.1	
18	3,565	1,511.38	642.4	
19	4,240	1,636.54	584.8	
20	5,688	786.57	209.5	
21	6,782	712.45	159.2	
22	8,796	175.31	30.2	
23	9,568	137.50	21.8	
24	10,380	75.00	10.9	Upper Marker
25	11,070	0.00	0.0	
26	12,614	0.00	0.0	

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ENR\Desktop\2014-04-07\_surfciam HS DNA Assay\_DE72901330.xad

Created: 4/7/2014 2:22:30 PM  
Modified: 4/8/2014 2:53:53 PM

**Electropherogram Summary Continued ...****... Peak table for sample 6 : SbfI E92**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	14,116	0.00	0.0	
28	14,644	0.00	0.0	
29	15,822	0.00	0.0	

**Region table for sample 6 : SbfI E92**

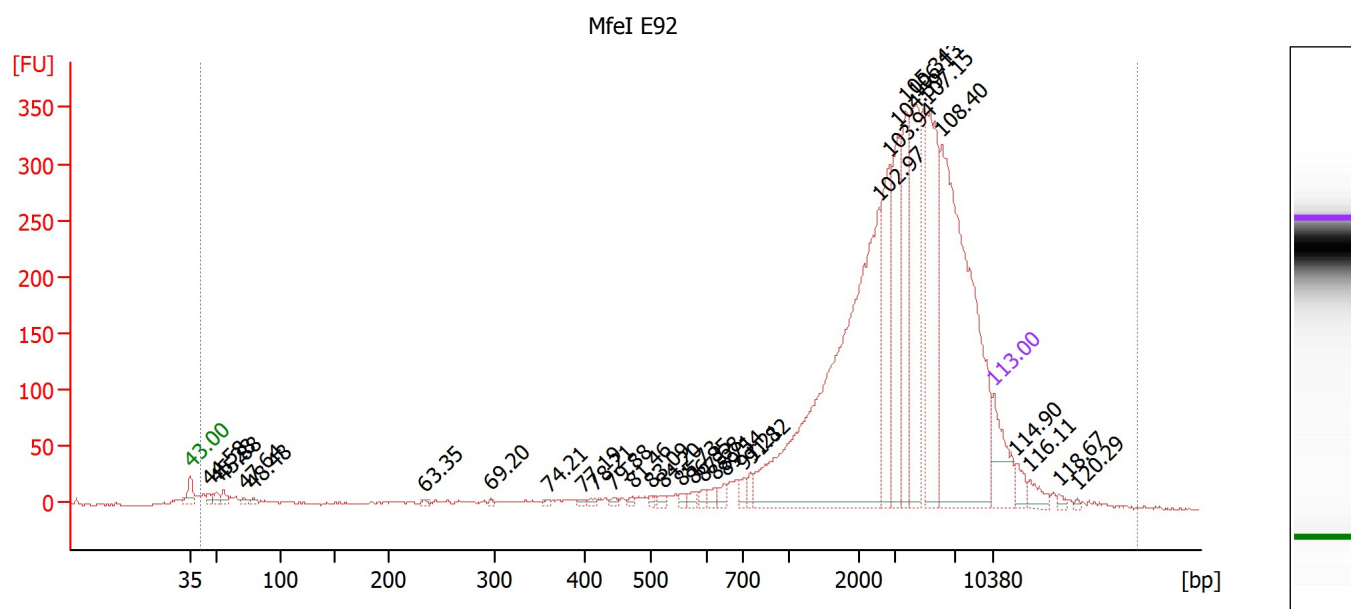
From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
50	11,000	2,621.5	97	3,739	60.7	9,590.07	8,392.4	



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ENR\Desktop\2014-04-07\_surflam HS DNA Assay\_DE72901330.xad

Created: 4/7/2014 2:22:30 PM  
 Modified: 4/8/2014 2:53:53 PM

### Electropherogram Summary Continued ...



### Overall Results for sample 7 : MfeI E92

Number of peaks found: 32      Corr. Area 1: 4,435.0  
 Noise: 1.0

### Peak table for sample 7 : MfeI E92

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	45	16.71	559.3	
3	50	17.84	542.7	
4	55	17.68	485.9	
5	71	10.11	216.1	
6	78	9.07	175.3	
7	233	5.28	34.3	
8	297	4.10	20.9	
9	360	4.82	20.3	
10	397	4.94	18.9	
11	414	6.73	24.6	
12	443	6.09	20.8	
13	471	6.91	22.2	
14	500	6.12	18.5	
15	523	9.06	26.3	
16	554	7.70	21.0	
17	578	10.59	27.8	
18	595	10.01	25.5	
19	625	13.59	32.9	
20	652	14.26	33.2	
21	712	16.03	34.1	
22	756	15.38	30.8	
23	2,549	788.99	469.0	
24	2,862	157.85	83.6	
25	3,170	173.43	82.9	
26	3,745	157.05	63.5	

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ENR\Desktop\2014-04-07\_surfciam HS DNA Assay\_DE72901330.xad

Created: 4/7/2014 2:22:30 PM  
Modified: 4/8/2014 2:53:53 PM

**Electropherogram Summary Continued ...****... Peak table for sample 7 : MfeI E92**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	4,357	212.18	73.8	
28	5,148	251.63	74.1	
29	6,118	613.72	152.0	
30	10,380	75.00	10.9	Upper Marker
31	12,241	0.00	0.0	
32	13,421	0.00	0.0	
33	15,917	0.00	0.0	
34	17,505	0.00	0.0	

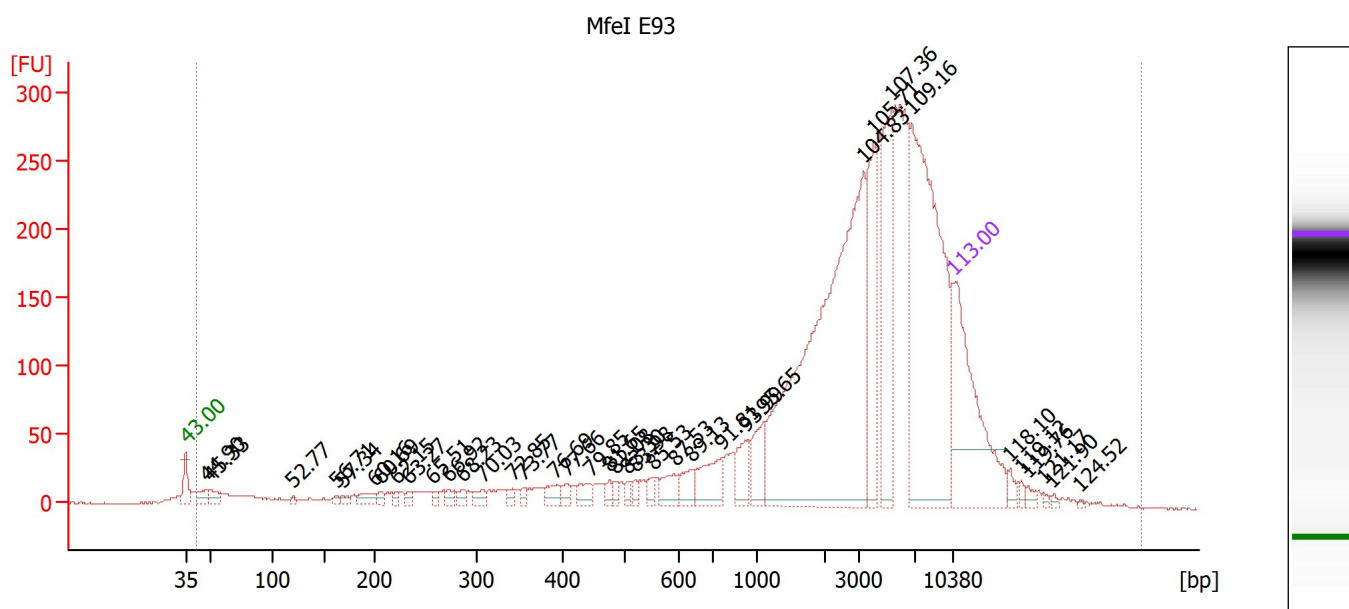
**Region table for sample 7 : MfeI E92**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
41	22,660	4,435.0	99	4,483	71.8	2,982.51	5,778.7	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ENR\Desktop\2014-04-07\_surflam HS DNA Assay\_DE72901330.xad

Created: 4/7/2014 2:22:30 PM  
 Modified: 4/8/2014 2:53:53 PM

### Electropherogram Summary Continued ...



### Overall Results for sample 8 : MfeI E93

Number of peaks found: 38      Corr. Area 1: 4,224.9  
 Noise: 0.7

### Peak table for sample 8 : MfeI E93

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	47	10.50	336.1	
3	50	8.30	250.3	
4	120	2.23	28.2	
5	161	2.37	22.2	
6	168	3.52	31.7	
7	199	8.02	61.2	
8	204	3.50	26.0	
9	220	3.29	22.7	
10	232	3.48	22.7	
11	257	3.49	20.6	
12	272	3.96	22.1	
13	286	4.09	21.7	
14	307	5.71	28.2	
15	342	3.73	16.5	
16	354	3.15	13.5	
17	391	7.41	28.7	
18	404	4.53	17.0	
19	443	8.40	28.8	
20	474	4.24	13.5	
21	482	3.76	11.8	
22	504	3.64	10.9	
23	518	3.74	10.9	
24	550	5.08	14.0	
25	592	10.48	26.8	
26	639	10.12	24.0	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ENR\Desktop\2014-04-07\_surfciam HS DNA Assay\_DE72901330.xad

Created: 4/7/2014 2:22:30 PM  
 Modified: 4/8/2014 2:53:53 PM

**Electropherogram Summary Continued ...****... Peak table for sample 8 : MfeI E93**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	755	22.56	45.3	
28	916	13.88	23.0	
29	1,082	17.15	24.0	
30	3,356	254.31	114.8	
31	4,034	43.88	16.5	
32	5,313	61.17	17.4	
33	6,705	168.69	38.1	
34	10,380	75.00	10.9	Upper Marker
35	15,367	0.00	0.0	
36	16,364	0.00	0.0	
37	16,982	0.00	0.0	
38	18,359	0.00	0.0	
39	19,072	0.00	0.0	
40	21,636	0.00	0.0	

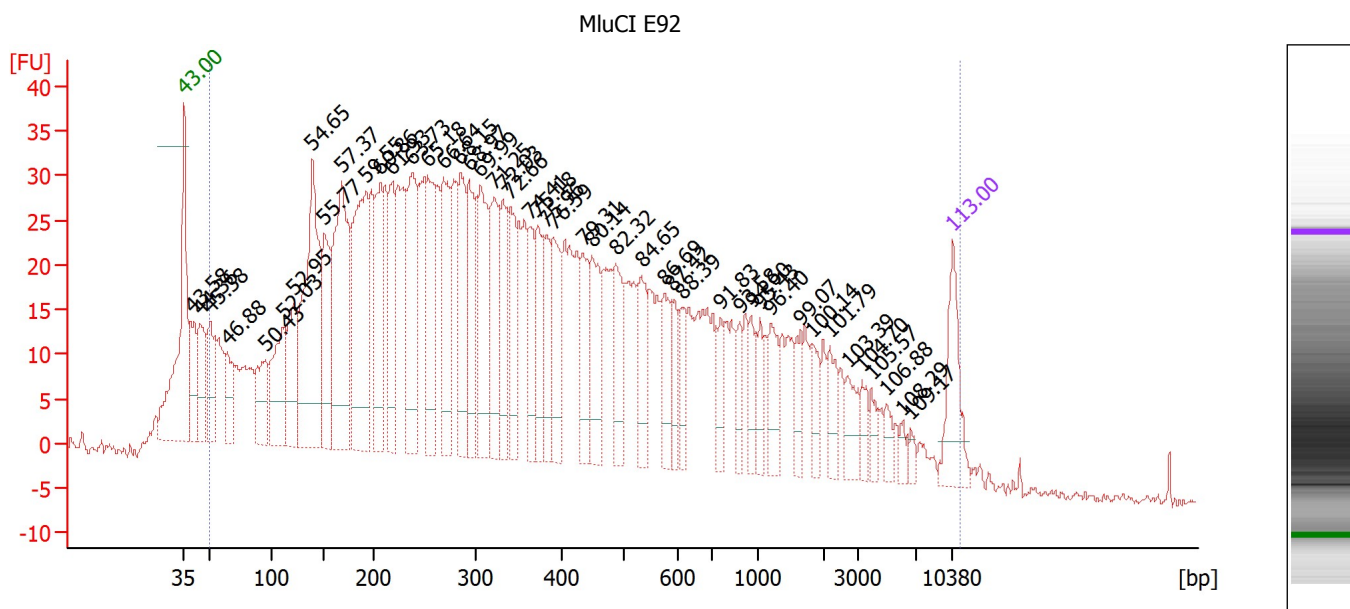
**Region table for sample 8 : MfeI E93**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
41	27,131	4,224.9	99	5,041	81.7	957.04	2,436.3	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ENR\Desktop\2014-04-07\_surflam HS DNA Assay\_DE72901330.xad

Created: 4/7/2014 2:22:30 PM  
 Modified: 4/8/2014 2:53:53 PM

### Electropherogram Summary Continued ...



### Overall Results for sample 9 : MluCI E92

Number of peaks found: 47      Corr. Area 1: 1,895.8  
 Noise: 0.7

### Peak table for sample 9 : MluCI E92

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	39	117.30	4,582.0	
3	44	117.55	4,062.6	
4	51	96.63	2,890.7	
5	64	79.12	1,870.4	
6	96	106.10	1,678.7	
7	112	166.67	2,256.9	
8	122	141.23	1,759.3	
9	140	427.58	4,642.6	
10	151	164.03	1,642.1	
11	169	368.97	3,316.8	
12	192	330.16	2,605.3	
13	206	163.29	1,200.0	
14	218	140.39	976.6	
15	237	216.05	1,379.1	
16	253	179.64	1,074.9	
17	269	171.38	965.0	
18	285	149.76	794.8	
19	294	149.72	770.4	
20	306	181.45	897.2	
21	322	134.86	633.9	
22	332	94.19	429.7	
23	340	103.35	460.5	
24	362	80.11	335.3	
25	372	83.76	341.3	
26	382	74.23	294.8	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ENR\Desktop\2014-04-07\_surfciam HS DNA Assay\_DE72901330.xad

Created: 4/7/2014 2:22:30 PM  
 Modified: 4/8/2014 2:53:53 PM

**Electropherogram Summary Continued ...****... Peak table for sample 9 : MluCI E92**

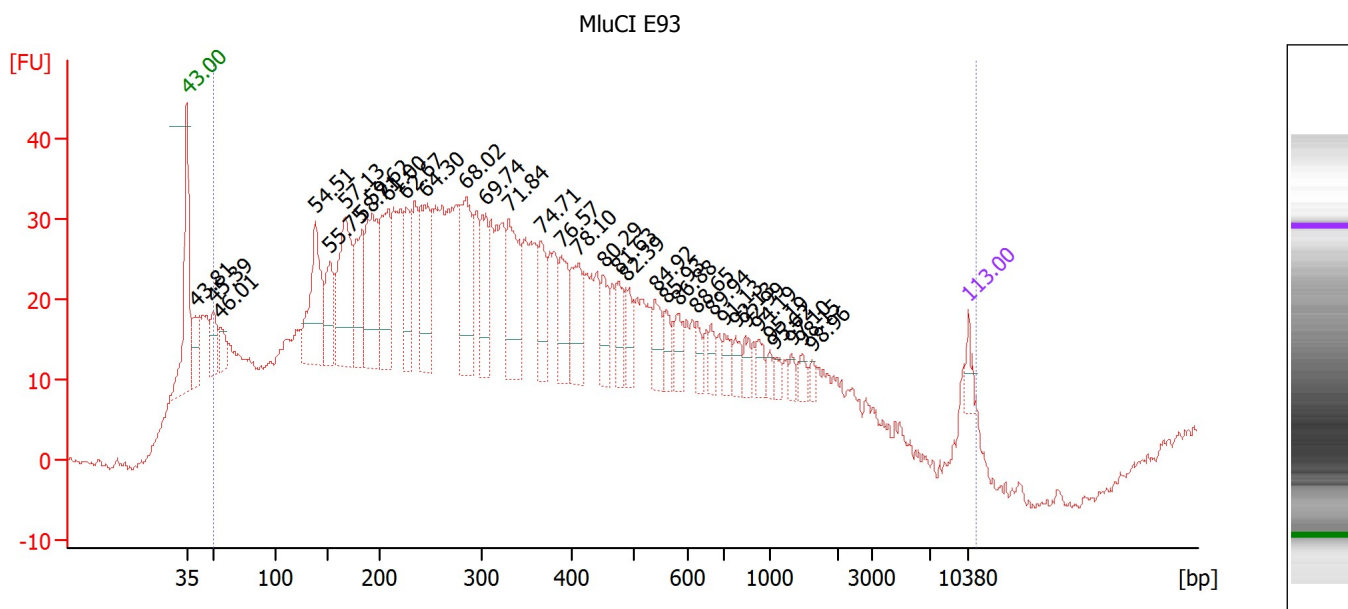
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	390	103.64	403.1	
28	433	83.67	292.6	
29	448	99.70	337.4	
30	486	84.44	263.1	
31	532	79.61	226.7	
32	574	68.89	181.7	
33	589	42.33	108.8	
34	615	43.82	108.0	
35	758	36.61	73.2	
36	885	33.55	57.4	
37	960	37.58	59.3	
38	1,046	30.57	44.3	
39	1,205	49.97	62.8	
40	1,642	26.50	24.5	
41	1,817	30.68	25.6	
42	2,170	34.47	24.1	
43	2,684	34.70	19.6	
44	3,253	20.69	9.6	
45	3,929	16.98	6.5	
46	4,943	16.29	5.0	
47	6,033	11.13	2.8	
48	6,709	10.49	2.4	
49	10,380	75.00	10.9	Upper Marker

**Region table for sample 9 : MluCI E92**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
50	11,000	1,895.8	96	886	100.0	7,328.20	52,001.9	

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ENR\Desktop\2014-04-07\_surflam HS DNA Assay\_DE72901330.xad

Created: 4/7/2014 2:22:30 PM  
Modified: 4/8/2014 2:53:53 PM

**Electropherogram Summary Continued ...****Overall Results for sample 10 : MluCI E93**

Number of peaks found: 34      Corr. Area 1: 1,730.0  
Noise: 0.5


**Peak table for sample 10 : MluCI E93**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	40	355.77	13,382.7	
3	51	268.49	8,019.7	
4	56	181.55	4,888.2	
5	138	957.44	10,509.3	
6	151	459.42	4,605.3	
7	166	1,051.09	9,592.3	
8	183	561.88	4,653.4	
9	193	877.44	6,899.4	
10	208	717.36	5,233.9	
11	226	419.59	2,814.6	
12	244	757.24	4,710.9	
13	284	793.84	4,233.5	
14	303	444.33	2,219.9	
15	330	635.00	2,918.0	
16	366	323.56	1,340.3	
17	389	344.01	1,339.1	
18	412	351.11	1,291.8	
19	450	224.00	753.4	
20	474	178.53	570.6	
21	487	151.24	470.1	
22	538	201.13	566.7	
23	558	141.83	384.8	
24	578	150.22	393.6	
25	623	102.16	248.4	
26	664	105.67	241.0	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ENR\Desktop\2014-04-07\_surflam HS DNA Assay\_DE72901330.xad

Created: 4/7/2014 2:22:30 PM  
 Modified: 4/8/2014 2:53:53 PM

**Electropherogram Summary Continued ...****... Peak table for sample 10 : MluCI E93**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	706	113.95	244.5	
28	779	98.38	191.2	
29	842	88.28	158.8	
30	930	95.39	155.5	
31	1,007	50.11	75.4	
32	1,077	49.41	69.5	
33	1,320	50.24	57.7	
34	1,492	65.99	67.0	
35	1,625	41.34	38.6	
36	 10,380	75.00	10.9	Upper Marker

**Region table for sample 10 : MluCI E93**

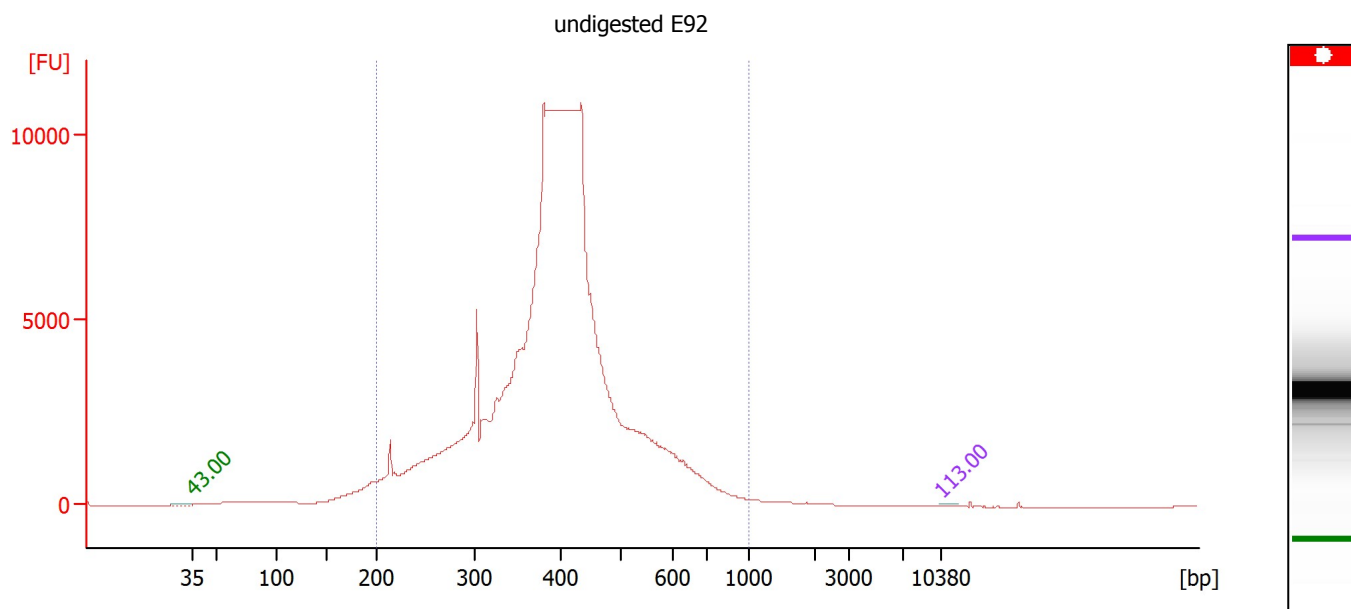
From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
50	11,000	1,730.0	95	560	100.0	33,880.71	265,990.5	



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ENR\Desktop\2014-04-07\_surflam HS DNA Assay\_DE72901330.xad

Created: 4/7/2014 2:22:30 PM  
 Modified: 4/8/2014 2:53:53 PM

### Electropherogram Summary Continued ...



### Overall Results for sample 11 : undigested E92

Number of peaks found: 0      Corr. Area 1: 140,160.1  
 Noise: 1.5

### Peak table for sample 11 : undigested E92

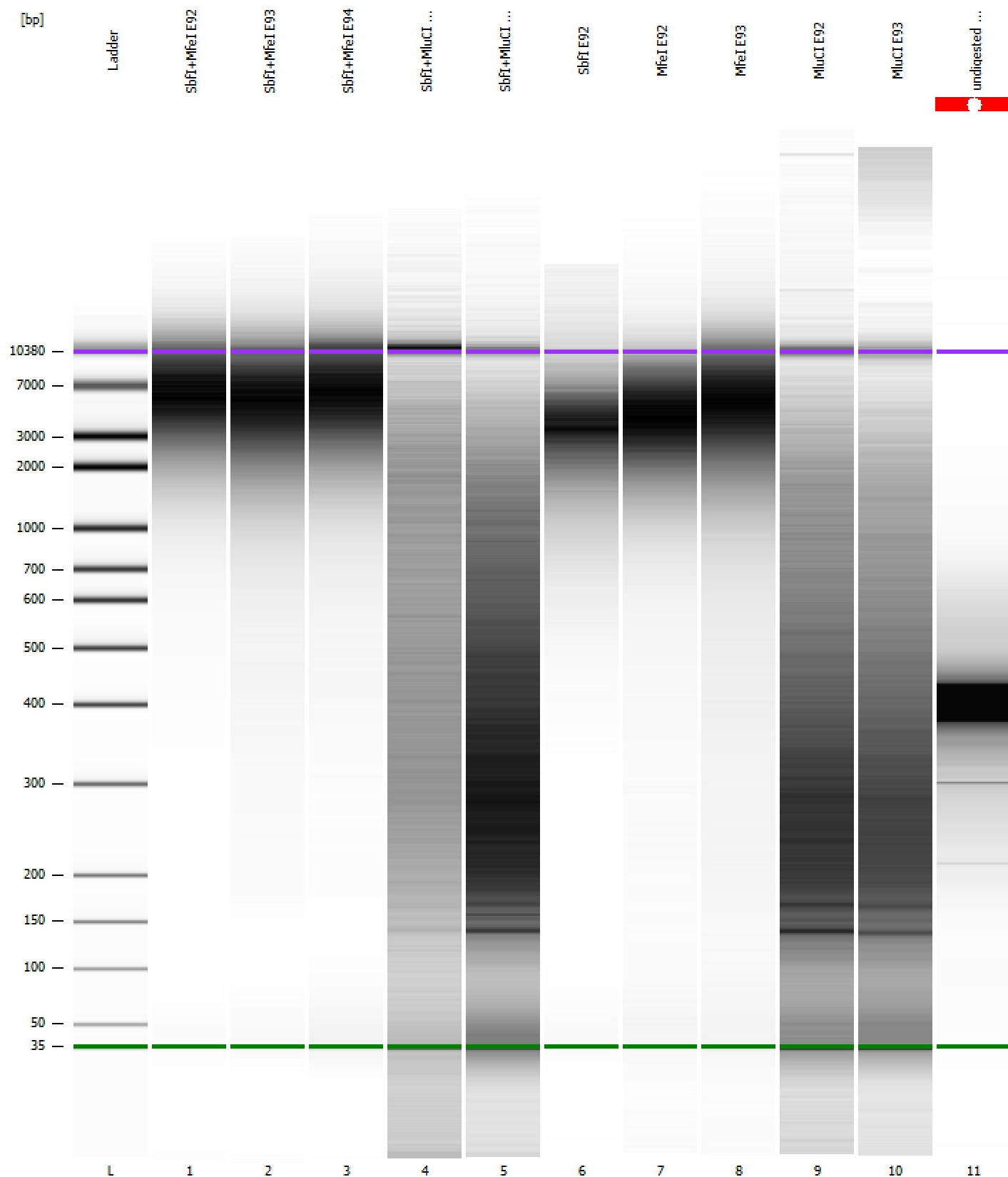
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	10,380	75.00	10.9	Upper Marker

### Region table for sample 11 : undigested E92

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	140,160.1	96	408	24.5	120,186,832.0	484,540,768.0	Blue

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ENR\Desktop\2014-04-07\_surflam HS DNA Assay\_DE72901330.xad

Created: 4/7/2014 2:22:30 PM  
Modified: 4/8/2014 2:53:53 PM

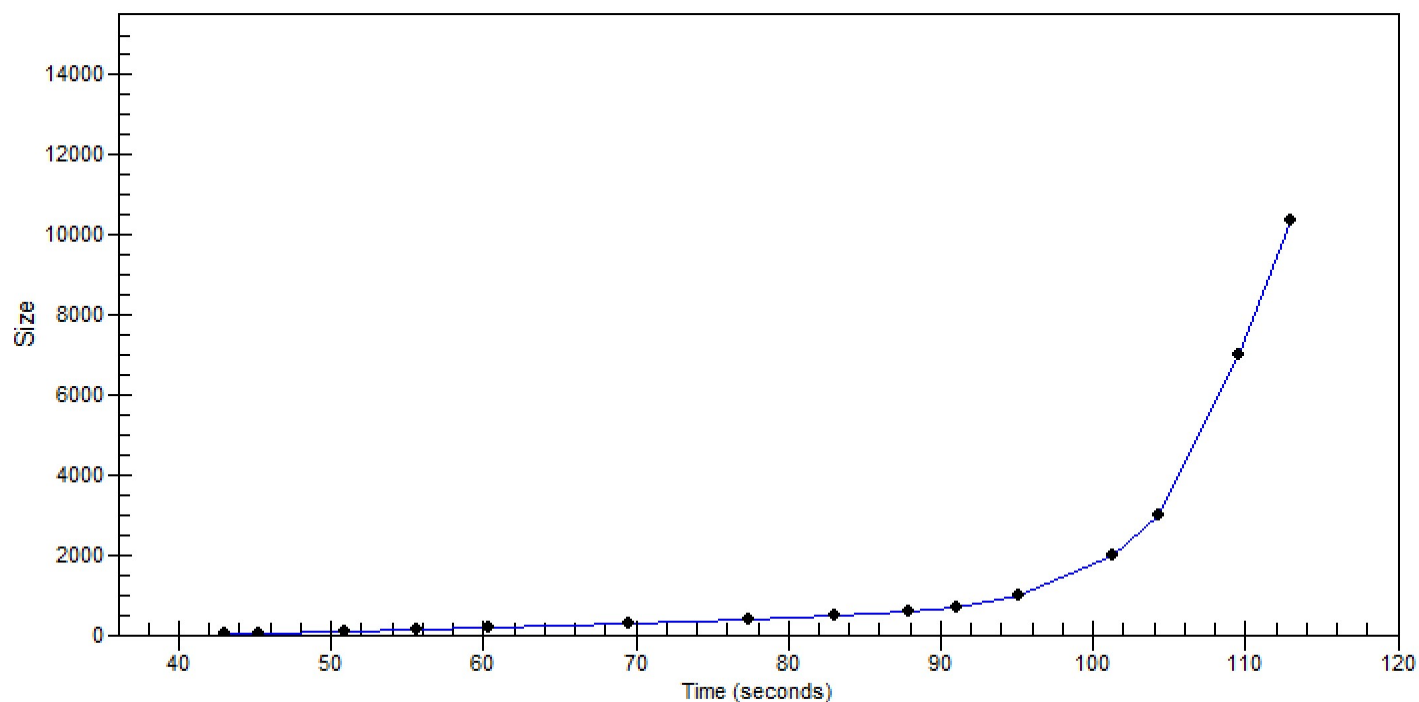
**Gel Image**

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ENR\Desktop\2014-04-07\_surflam HS DNA Assay\_DE72901330.xad

Created: 4/7/2014 2:22:30 PM  
Modified: 4/8/2014 2:53:53 PM

## Curves

### Standard Curve



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ENR\Desktop\2014-04-07\_surfciam HS DNA Assay\_DE72901330.xad

Created: 4/7/2014 2:22:30 PM  
 Modified: 4/8/2014 2:53:53 PM

**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		4/7/2014 3:01:52 PM	(GMT --04:00) Eastern Standard Time	foran103	RUTGERS-4341 E48
Instrument error occurred on port 1, Optical signal too high (1605h)	559	Instrument	Run	Sample 11	4/7/2014 3:01:52 PM	(GMT --04:00) Eastern Standard Time	foran103	RUTGERS-4341 E48
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\Data\2014-04-07\Pinsky_High Sensitivity DNA Assay_DE72901330_2014-04-07_14-19-53.xad)		Instrument	Run		4/7/2014 2:22:30 PM	(GMT --04:00) Eastern Standard Time	foran103	RUTGERS-4341 E48
Product Number : G2939A		Instrument	Run		4/7/2014 2:22:30 PM	(GMT --04:00) Eastern Standard Time	foran103	RUTGERS-4341 E48
Name :		Instrument	Run		4/7/2014 2:22:30 PM	(GMT --04:00) Eastern Standard Time	foran103	RUTGERS-4341 E48
Vendor : Agilent Technologies		Instrument	Run		4/7/2014 2:22:30 PM	(GMT --04:00) Eastern Standard Time	foran103	RUTGERS-4341 E48
Serial# : DE72901330		Instrument	Run		4/7/2014 2:22:30 PM	(GMT --04:00) Eastern Standard Time	foran103	RUTGERS-4341 E48
Firmware : C.01.069		Instrument	Run		4/7/2014 2:22:30 PM	(GMT --04:00) Eastern Standard Time	foran103	RUTGERS-4341 E48
Cartridge : Electrode		Instrument	Run		4/7/2014 2:22:30 PM	(GMT --04:00) Eastern Standard Time	foran103	RUTGERS-4341 E48