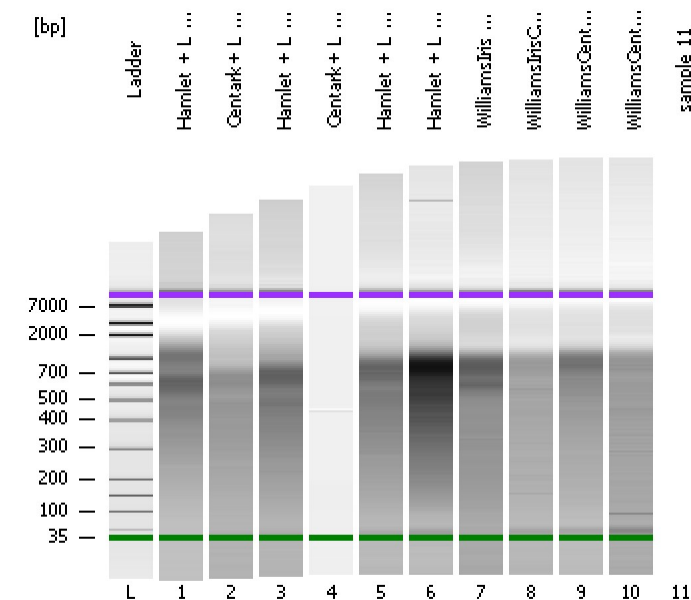


Assay Class: High Sensitivity DNA Assay
Data Path: D:\...gh Sensitivity DNA Assay_DE24802235_2011-10-31_21-34-21.xad

Created: 10/31/2011 9:34:20 PM
Modified: 10/31/2011 10:29:12 PM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: Ann's baby
Serial#: DE24802235
Firmware: C.01.069
Type: G2938B

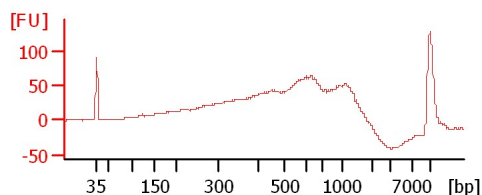
Assay Information:

Assay Origin Path: D:\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

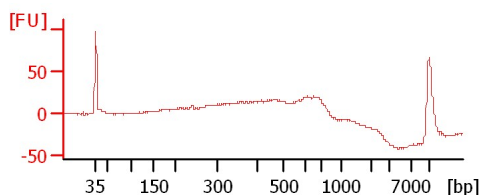
Chip Information:

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

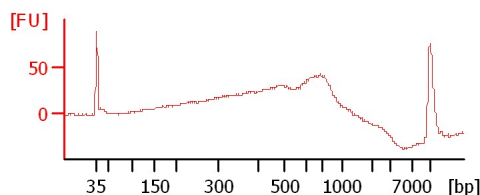
Hamlet + L 24h sonicated, amicon



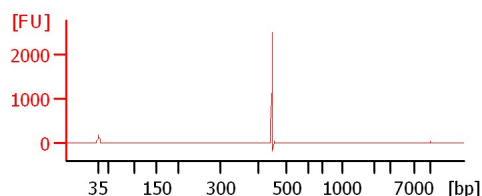
Centark + L 24h sonicated, amicon



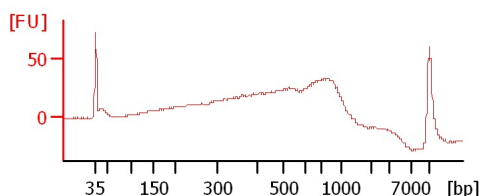
Hamlet + L 12h sonicated, amicon



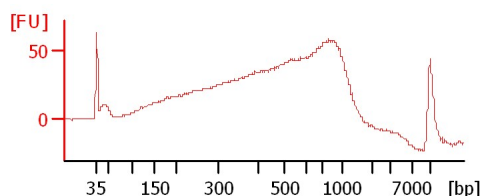
Centark + L 12h sonicated, amicon



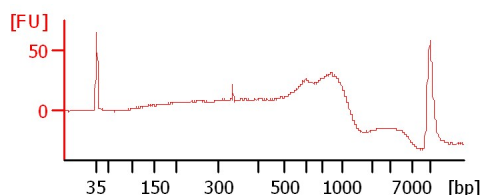
Hamlet + L 6h sonicated, amicon



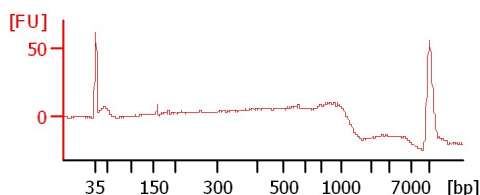
Hamlet + L 3h sonicated, amicon



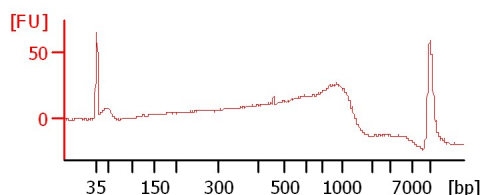
WilliamsIris 3h sonicated, amicon



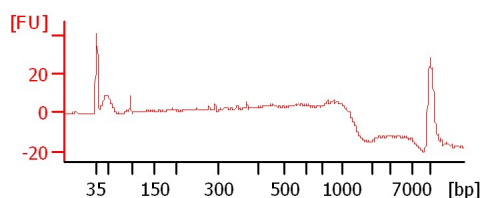
WilliamsIrisControl+ L 24h sonicated,...



WilliamsCentark+ L 3h sonicated, amicon



WilliamsCentark+ L 6h sonicated, amicon



Assay Class: High Sensitivity DNA Assay
Data Path: D:\...gh Sensitivity DNA Assay_DE24802235_2011-10-31_21-34-21.xad

Created: 10/31/2011 9:34:20 PM
Modified: 10/31/2011 10:29:12 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Hamlet + L 24h sonicated, amicon		☐	✓			
Centark+ L 24h sonicated, amicon		☐	✓			
Hamlet + L 12h sonicated, amicon		☐	✓			
Centark+ L 12h sonicated, amicon		☐	✓			
Hamlet + L 6h sonicated, amicon		☐	✓			
Hamlet + L 3h sonicated, amicon		☐	✓			
WilliamsIris 3h sonicated, amicon		☐	✓			
WilliamsIrisControl+ L 24h sonicated, amicon		☐	✓			
WilliamsCentark+ L 3h sonicated, amicon		☐	✓			
WilliamsCentark+ L 6h sonicated, amicon		☐	✓			
sample 11		☐				
Ladder		☐	✓			

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

Assay Class: High Sensitivity DNA Assay
Data Path: D:\...gh Sensitivity DNA Assay_DE24802235_2011-10-31_21-34-21.xad

Created: 10/31/2011 9:34:20 PM
Modified: 10/31/2011 10:29:12 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

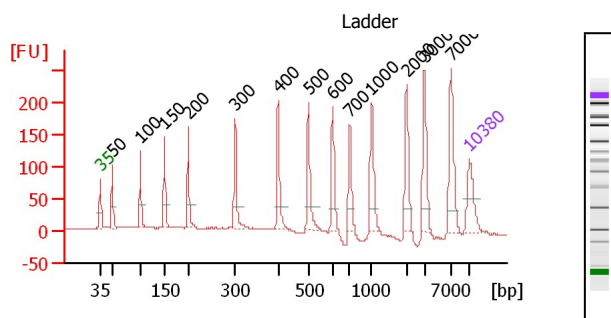
Ladder

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: D:\...gh Sensitivity DNA Assay_DE24802235_2011-10-31_21-34-21.xad

Created: 10/31/2011 9:34:20 PM
 Modified: 10/31/2011 10:29:12 PM

Electropherogram Summary



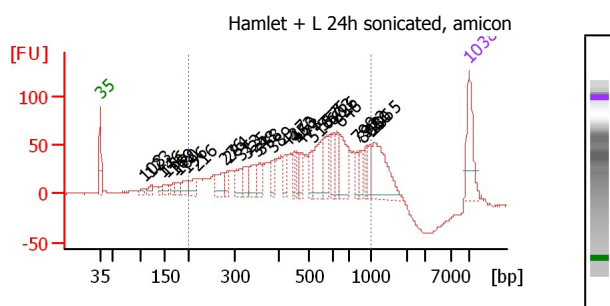
Overall Results for Ladder

Noise: 0.5

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

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



Overall Results for sample 1 : Hamlet + L 24h sonicated, amicon

Number of peaks found: 30
 Noise: 0.6
 Corr. Area 1: 1,792.0

Region table for sample 1 : Hamlet + L 24h sonicated, amicon

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	1,792.0	79	513	37.5	1,187.39	4,367.1	Blue

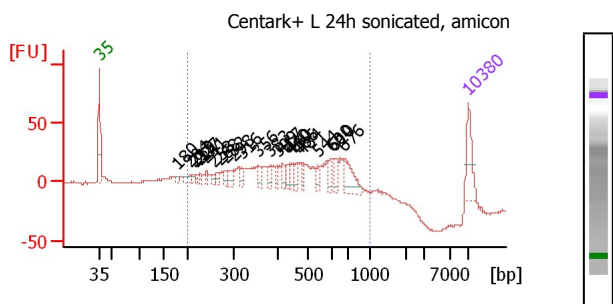
Assay Class: High Sensitivity DNA Assay
 Data Path: D:\...gh Sensitivity DNA Assay_DE24802235_2011-10-31_21-34-21.xad

Created: 10/31/2011 9:34:20 PM
 Modified: 10/31/2011 10:29:12 PM

Electropherogram Summary Continued ...

Peak table for sample 1 : Hamlet + L 24h sonicated, amicon

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker	27	799	20.78	39.4	
2	108	13.56	190.9		28	868	26.31	45.9	
3	123	19.01	235.0		29	922	21.23	34.9	
4	146	14.51	150.7		30	980	26.11	40.4	
5	156	16.43	159.8		31	1,065	114.59	163.0	
6	169	11.37	101.8		32	10,380	75.00	10.9	Upper Marker
7	180	17.71	149.5						
8	196	30.08	232.5						
9	216	38.82	272.2						
10	276	52.74	289.8						
11	284	21.86	116.6						
12	313	40.39	195.7						
13	325	42.62	198.4						
14	348	47.79	208.1						
15	358	25.98	110.0						
16	389	31.36	122.1						
17	427	29.66	105.2						
18	453	25.48	85.3						
19	460	23.56	77.6						
20	473	24.64	78.9						
21	516	32.87	96.6						
22	557	75.83	206.2						
23	576	48.64	127.9						
24	603	34.67	87.2						
25	626	37.15	89.9						
26	646	74.95	175.7						



Overall Results for sample 2 : Centark+ L 24h sonicated, amicon

Number of peaks found: 23
 Noise: 0.7
 Corr. Area 1: 898.8

Region table for sample 2 : Centark+ L 24h sonicated, amicon

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	898.8	84	463	35.1	1,139.93	4,511.5	Blue

Peak table for sample 2 : Centark+ L 24h sonicated, amicon

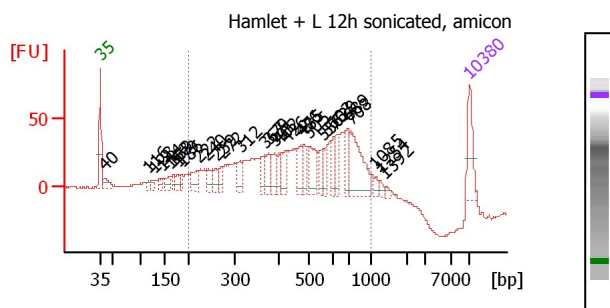
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	180	13.16	111.0	
3	204	21.83	161.9	
4	213	12.85	91.6	
5	219	11.98	82.8	
6	227	12.46	83.0	
7	241	14.77	92.9	
8	258	13.85	81.4	
9	268	17.82	100.8	
10	282	22.00	118.3	
11	298	33.49	170.4	
12	316	19.25	92.2	
13	356	22.23	94.7	
14	383	20.34	80.5	
15	399	19.91	75.6	
16	417	27.49	99.9	
17	440	30.89	106.3	
18	450	23.84	80.3	
19	466	22.08	71.8	
20	484	21.91	68.6	
21	544	18.70	52.1	
22	600	30.03	75.9	
23	610	39.71	98.6	
24	676	79.67	178.6	

Assay Class: High Sensitivity DNA Assay
 Data Path: D:\...gh Sensitivity DNA Assay_DE24802235_2011-10-31_21-34-21.xad

Created: 10/31/2011 9:34:20 PM
 Modified: 10/31/2011 10:29:12 PM

Electropherogram Summary Continued ...

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
25	10,380	75.00	10.9	Upper Marker



Overall Results for sample 3 : Hamlet + L 12h sonicated, amicon

Number of peaks found: 30
 Noise: 0.6
 Corr. Area 1: 1,225.9

Region table for sample 3 : Hamlet + L 12h sonicated, amicon

From To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200 1,000	1,225.9	85	497	36.8	1,553.30	5,864.0	Blue

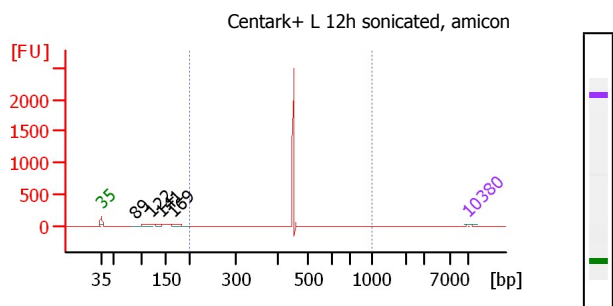
Peak table for sample 3 : Hamlet + L 12h sonicated, amicon

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	40	42.78	1,618.7	
3	116	14.42	188.7	
4	128	18.18	216.0	
5	144	24.20	254.0	
6	163	38.94	362.4	
7	169	20.65	185.1	
8	179	25.70	218.2	
9	186	21.36	174.2	
10	222	64.02	437.9	
11	240	34.59	218.0	
12	259	43.35	253.4	
13	272	35.64	198.2	
14	312	47.09	228.9	
15	367	44.91	185.5	
16	379	46.44	185.8	
17	391	50.27	194.7	
18	402	33.07	124.7	
19	426	53.49	190.3	
20	476	51.29	163.4	
21	485	35.98	112.5	
22	505	78.58	235.7	
23	556	41.65	113.6	
24	576	45.48	119.5	
25	603	38.91	97.9	

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
26	620	40.99	100.2	
27	689	56.70	124.6	
28	708	164.85	352.6	
29	1,085	15.57	21.7	
30	1,254	10.84	13.1	
31	1,392	6.74	7.3	
32	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: D:\...gh Sensitivity DNA Assay_DE24802235_2011-10-31_21-34-21.xad

Created: 10/31/2011 9:34:20 PM
Modified: 10/31/2011 10:29:12 PM

Electropherogram Summary Continued ...**Peak table for sample 4 :**

Peak	Size [bp]	Conc. [pg/ μ l]
1	35	125.00
2	89	32.45
3	122	216.13
4	141	107.44
5	169	203.85
6	10,380	75.00

Centark+ L 12h sonicated, amicon

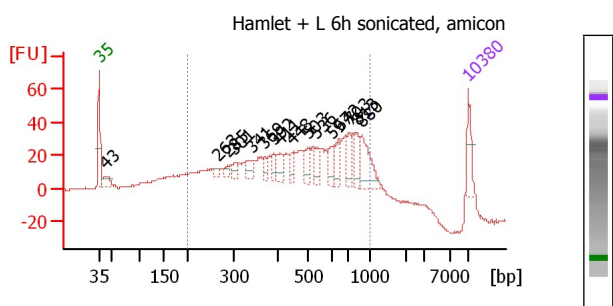
Molarity [pmol/l]	Observations
5,411.3	Lower Marker
554.9	
2,674.6	
1,155.0	
1,830.7	
10.9	Upper Marker

Overall Results for sample 4 : Centark+ L 12h sonicated, amicon

Number of peaks found: 4
Noise: 0.4
Corr. Area 1: 728.6

Region table for sample 4 : Centark+ L 12h sonicated, amicon

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/ μ l]	Molarity [pmol/l]	Color
200	1,000	728.6	71	448	3.9	1,940.90	6,590.6	Blue

**Peak table for sample 5 :**

Peak	Size [bp]	Conc. [pg/ μ l]
1	35	125.00
2	43	70.98
3	263	14.83
4	285	23.63
5	301	29.07
6	341	42.73
7	369	26.94
8	392	35.51
9	411	54.16
10	448	41.43
11	503	40.47
12	536	54.32
13	597	52.93
14	642	77.68
15	703	60.24
16	813	57.92
17	880	138.73
18	10,380	75.00

Hamlet + L 6h sonicated, amicon

Molarity [pmol/l]	Observations
5,411.3	Lower Marker
2,530.1	
85.5	
125.7	
146.6	
189.8	
110.6	
137.3	
199.7	
140.2	
121.8	
153.5	
134.4	
183.2	
129.9	
108.0	
239.0	
10.9	Upper Marker

Overall Results for sample 5 : Hamlet + L 6h sonicated, amicon

Number of peaks found: 16
Noise: 0.6
Corr. Area 1: 1,015.3

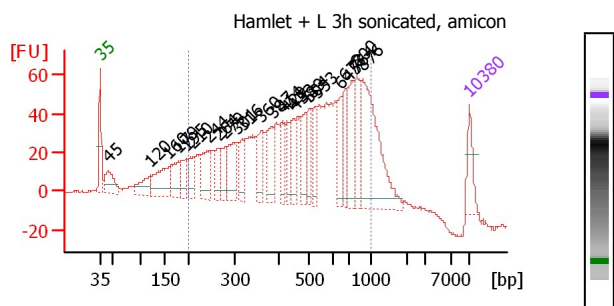
Region table for sample 5 : Hamlet + L 6h sonicated, amicon

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/ μ l]	Molarity [pmol/l]	Color
200	1,000	1,015.3	83	511	38.9	2,086.10	7,808.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: D:\...gh Sensitivity DNA Assay_DE24802235_2011-10-31_21-34-21.xad

Created: 10/31/2011 9:34:20 PM
 Modified: 10/31/2011 10:29:12 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Hamlet + L 3h sonicated, amicon

Number of peaks found: 24
 Noise: 0.6
 Corr. Area 1: 1,704.7

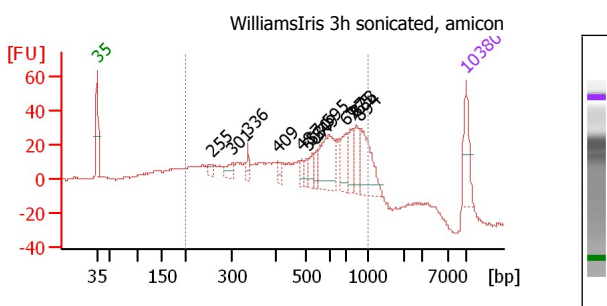
Region table for sample 6 : Hamlet + L 3h sonicated, amicon

From To [bp]	Corr. Area [bp]	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Co lo r
200	1,000	1,704.7	80	515	39.4	3,197.76	11,954.5

Peak table for sample 6 :

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	45	145.76	4,885.8	
3	120	117.06	1,480.1	
4	160	198.16	1,877.7	
5	179	127.19	1,074.7	
6	195	101.82	790.6	
7	210	88.14	636.3	
8	244	168.80	1,048.3	
9	264	96.57	554.7	
10	279	105.27	571.1	
11	301	155.33	781.8	
12	316	88.32	423.5	
13	360	110.31	464.2	
14	387	133.05	521.5	
15	414	90.03	329.8	
16	429	74.16	261.9	
17	453	112.73	376.9	
18	489	96.05	297.7	
19	504	75.25	226.2	
20	533	103.67	294.9	
21	645	115.94	272.3	
22	673	93.02	209.6	
23	764	179.90	356.9	
24	800	124.61	236.1	
25	876	442.45	765.4	

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



Overall Results for sample 7 : WilliamsIris 3h sonicated, amicon

Number of peaks found: 13
 Noise: 0.5
 Corr. Area 1: 783.5

Region table for sample 7 : WilliamsIris 3h sonicated, amicon

From To [bp]	Corr. Area [bp]	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Co lo r
200	1,000	783.5	82	539	39.2	1,111.85	4,055.2

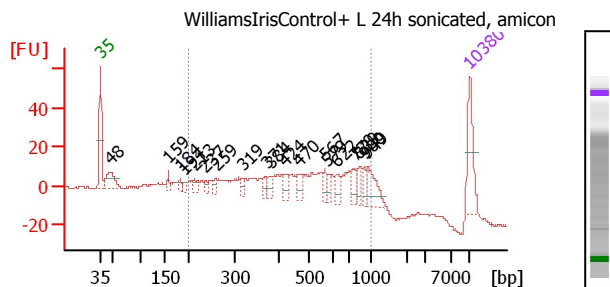
Assay Class: High Sensitivity DNA Assay
 Data Path: D:\...gh Sensitivity DNA Assay_DE24802235_2011-10-31_21-34-21.xad

Created: 10/31/2011 9:34:20 PM
 Modified: 10/31/2011 10:29:12 PM

Electropherogram Summary Continued ...

Peak table for sample 7 : WilliamsIris 3h sonicated, amicon

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	255	20.05	119.2	
3	301	32.72	164.9	
4	336	19.88	89.6	
5	409	18.57	68.8	
6	487	18.44	57.4	
7	507	18.80	56.1	
8	530	26.00	74.3	
9	549	31.57	87.1	
10	595	129.71	330.2	
11	697	68.53	149.1	
12	765	53.70	106.4	
13	838	59.27	107.2	
14	894	122.62	207.8	
15	10,380	75.00	10.9	Upper Marker



Overall Results for sample 8 : WilliamsIrisControl+ L 24h sonicated, amicon

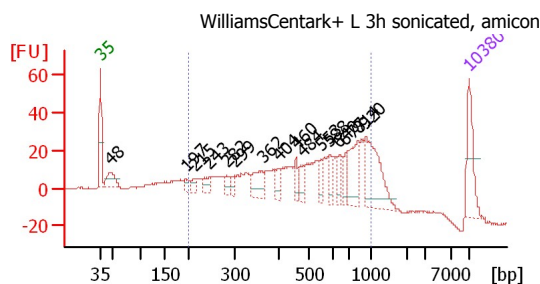
Number of peaks found: 19
 Noise: 0.5
 Corr. Area 1: 454.2

Region table for sample 8 : WilliamsIrisControl+ L 24h sonicated, amicon

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	454.2	77	510	40.2	666.59	2,530.5	Blue

Peak table for sample 8 : WilliamsIrisControl+ L 24h sonicated, amicon

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	48	65.44	2,067.3	
3	159	15.07	143.9	
4	184	11.67	96.1	
5	194	11.03	86.2	
6	213	21.10	149.9	
7	237	12.27	78.6	
8	259	18.22	106.8	
9	319	16.34	77.7	
10	371	17.99	73.4	
11	384	18.28	72.1	
12	424	26.58	95.0	
13	470	22.83	73.6	
14	567	18.49	49.4	
15	579	15.80	41.4	
16	622	22.40	54.6	
17	770	28.18	55.5	
18	839	24.29	43.9	
19	900	19.48	32.8	
20	949	53.42	85.3	
21	10,380	75.00	10.9	Upper Marker



Overall Results for sample 9 : WilliamsCentark+ L 3h sonicated, amicon

Number of peaks found: 16
 Noise: 0.5
 Corr. Area 1: 694.0

Region table for sample 9 : WilliamsCentark+ L 3h sonicated, amicon

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	694.0	77	536	39.2	897.78	3,251.2	Blue

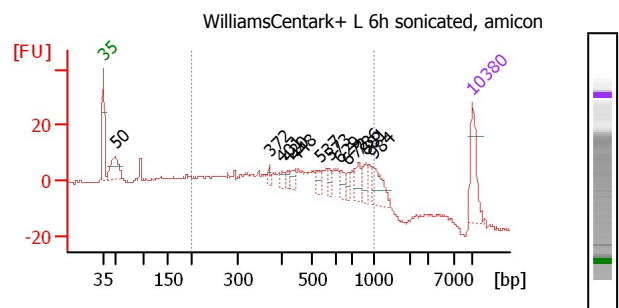
Assay Class: High Sensitivity DNA Assay
 Data Path: D:\...gh Sensitivity DNA Assay_DE24802235_2011-10-31_21-34-21.xad

Created: 10/31/2011 9:34:20 PM
 Modified: 10/31/2011 10:29:12 PM

Electropherogram Summary Continued ...

Peak table for sample 9 : WilliamsCentark+ L 3h sonicated, amicon

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	48	61.00	1,909.2	
3	197	14.50	111.7	
4	215	18.11	127.6	
5	243	24.57	152.9	
6	282	22.37	120.1	
7	299	17.68	89.5	
8	362	56.82	237.6	
9	404	27.68	103.9	
10	460	23.81	78.5	
11	484	32.21	100.8	
12	553	25.10	68.8	
13	588	24.48	63.1	
14	640	35.90	84.9	
15	677	27.50	61.5	
16	814	95.56	177.9	
17	920	145.40	239.3	
18	10,380	75.00	10.9	Upper Marker



Overall Results for sample 10 : WilliamsCentark+ L 6h sonicated, a

Number of peaks found: 12
 Noise: 0.4
 Corr. Area 1: 336.0

Region table for sample 10 : WilliamsCentark+ L 6h sonicated, a

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	336.0	70	507	40.4	716.02	2,728.9	Blue

Peak table for sample 10 : WilliamsCentark+ L 6h sonicated, amicon

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	50	94.73	2,869.9	
3	372	11.13	45.3	
4	401	13.78	52.1	
5	420	11.62	41.9	
6	448	20.89	70.7	
7	537	23.88	67.4	
8	573	16.71	44.2	
9	629	22.95	55.2	
10	672	15.41	34.8	
11	786	36.41	70.2	
12	881	32.29	55.5	
13	984	55.57	85.5	
14	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: D:\...gh Sensitivity DNA Assay_DE24802235_2011-10-31_21-34-21.xad

Created: 10/31/2011 9:34:20 PM
Modified: 10/31/2011 10:29:12 PM

Gel Image