

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-19\2017-05-19_002.xad

Created: 5/19/2017 11:53:20 AM
Modified: 5/19/2017 12:31:46 PM

Electrophoresis File Run Summary

Instrument Information:

Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

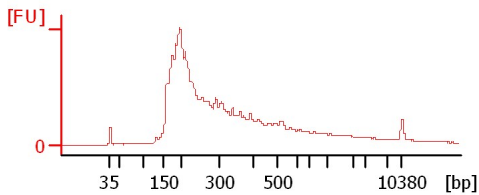
Assay Information:

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

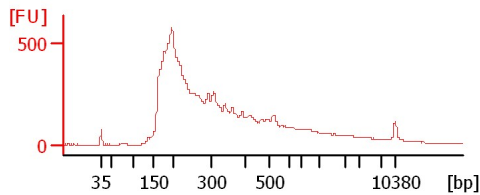
Chip Information:

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

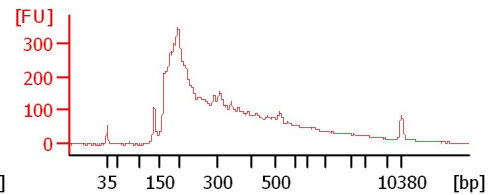
GBS_UC02202



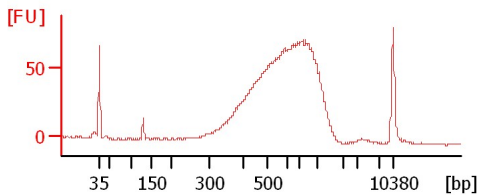
GBS_UC07105



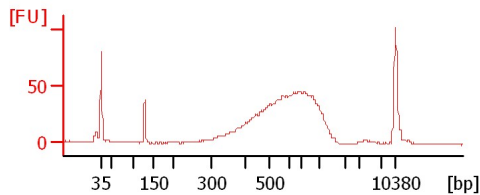
GBS_UC12100



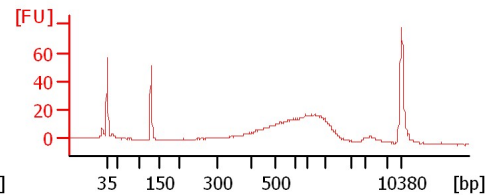
Keri_1_3



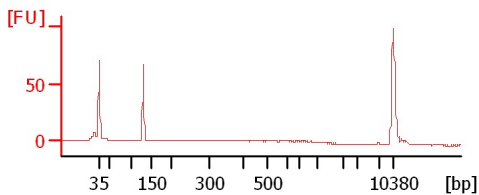
Keri_1_5



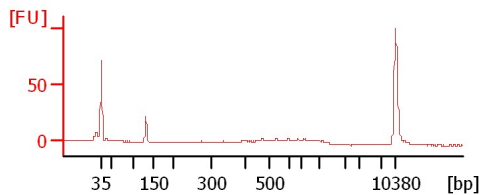
Keri_1_7



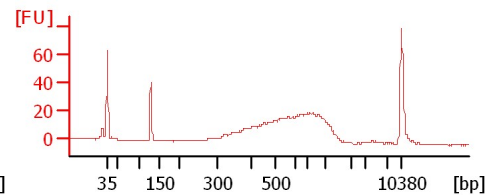
Keri_4_3



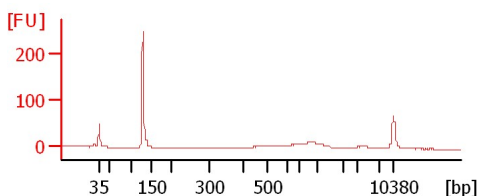
Keri_4_5



Keri_4_7



Keri_5



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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
GBS_UC02202		<input type="checkbox"/>	✓			
GBS_UC07105		<input type="checkbox"/>	✓			
GBS_UC12100		<input type="checkbox"/>	✓			
Keri_1_3		<input type="checkbox"/>	✓			
Keri_1_5		<input type="checkbox"/>	✓			
Keri_1_7		<input type="checkbox"/>	✓			
Keri_4_3		<input type="checkbox"/>	✓			
Keri_4_5		<input type="checkbox"/>	✓			
Keri_4_7		<input type="checkbox"/>	✓			
Keri_5		<input type="checkbox"/>	✓			
sample 11		<input type="checkbox"/>				
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

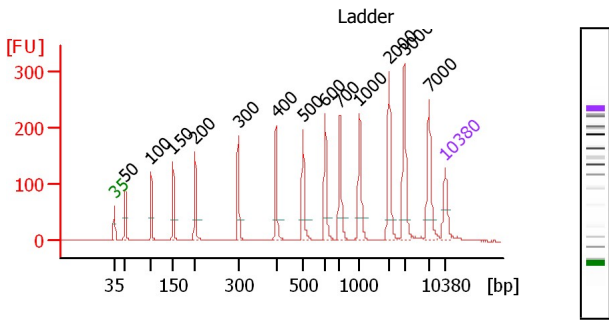
Reagent Kit Lot #

Chip Comments :

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Electropherogram Summary



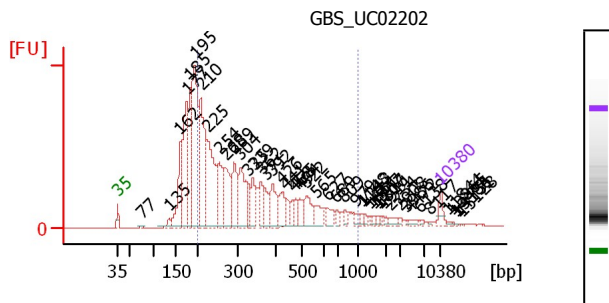
Peak table for Ladder

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time
1	35	125.00	5,411.3	Lower Marker	43.00
2	50	150.00	4,545.5	Ladder Peak	45.34
3	100	150.00	2,272.7	Ladder Peak	50.82
4	150	150.00	1,515.2	Ladder Peak	55.51
5	200	150.00	1,136.4	Ladder Peak	60.15
6	300	150.00	757.6	Ladder Peak	69.21
7	400	150.00	568.2	Ladder Peak	77.20
8	500	150.00	454.5	Ladder Peak	82.91
9	600	150.00	378.8	Ladder Peak	87.63
10	700	150.00	324.7	Ladder Peak	90.73
11	1,000	150.00	227.3	Ladder Peak	94.88
12	2,000	150.00	113.6	Ladder Peak	101.11
13	3,000	150.00	75.8	Ladder Peak	104.34

Overall Results for Ladder

Noise: 0.2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time
14	7,000	150.00	32.5	Ladder Peak	109.55
15	10,380	75.00	10.9	Upper Marker	113.00



Overall Results for sample 1 : GBS_UC02202

Number of peaks found: 46
 Noise: 0.3
 Corr. Area 1: 6,390.1

Region table for sample 1 : GBS_UC02202

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Conc. [pg/μl]	% of Total	Size distribution CV [%]
200	1,000	355	6,390.1	38,216.6	7,375.5	66	44.2

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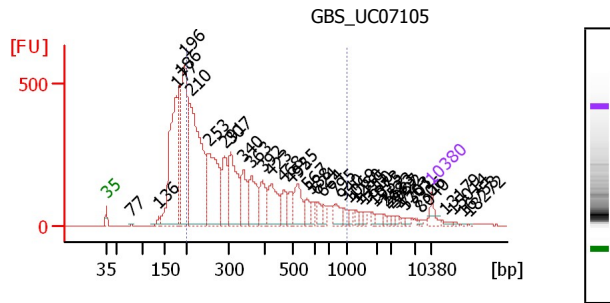
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Electropherogram Summary Continued ...

Peak table for sample 1 : GBS_UC02202

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time	Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time
1	35	125.00	5,411.3	Lower Marker	43.00	23	494	125.63	385.5		82.55
2	77	16.31	322.9		48.25	24	522	223.80	649.5		83.95
3	135	67.90	760.2		54.13	25	565	152.93	410.0		85.99
4	162	627.10	5,882.9		56.57	26	627	91.54	221.1		88.48
5	177	1,221.23	10,476.0		57.98	27	689	45.84	100.9		90.38
6	185	659.10	5,386.3		58.79	28	809	39.61	74.2		92.23
7	195	1,670.17	12,966.9		59.70	29	979	43.27	67.0		94.58
8	210	1,175.88	8,503.3		61.01	30	1,148	21.44	28.3		95.81
9	225	1,070.72	7,226.1		62.37	31	1,243	27.49	33.5		96.39
10	254	552.52	3,296.2		65.04	32	1,461	16.98	17.6		97.75
11	268	542.37	3,066.8		66.30	33	1,577	22.23	21.4		98.48
12	289	441.80	2,312.8		68.25	34	1,707	18.71	16.6		99.29
13	304	558.71	2,780.6		69.56	35	1,816	15.37	12.8		99.97
14	325	134.31	625.4		71.24	36	1,911	25.45	20.2		100.56
15	339	267.52	1,195.8		72.32	37	2,234	42.26	28.7		101.87
16	362	218.52	915.7		74.13	38	2,908	15.63	8.1		104.04
17	371	169.18	690.5		74.90	39	3,986	8.99	3.4		105.62
18	392	303.16	1,173.1		76.53	40	4,472	25.00	8.5		106.26
19	426	218.14	775.4		78.70	41	6,138	13.17	3.3		108.43
20	441	110.16	378.9		79.52	42	8,117	7.94	1.5		110.69
21	468	92.74	300.1		81.10	43	10,380	75.00	10.9	Upper Marker	113.00
22	475	78.62	250.9		81.46	44	11,844	0.00	0.0		114.49
						45	12,865	0.00	0.0		115.53

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time
46	13,486	0.00	0.0		116.17
47	14,151	0.00	0.0		116.85
48	15,128	0.00	0.0		117.84



Overall Results for sample 2 : GBS_UC07105

Number of peaks found: 40
 Noise: 0.7
 Corr. Area 1: 8,227.3

Region table for sample 2 : GBS_UC07105

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Conc. [pg/μl]	% of Total in CV	Size distribution [%]
200	1,000	364	8,227.3	37,871.9	7,425.8	68	44.5
			3		6		

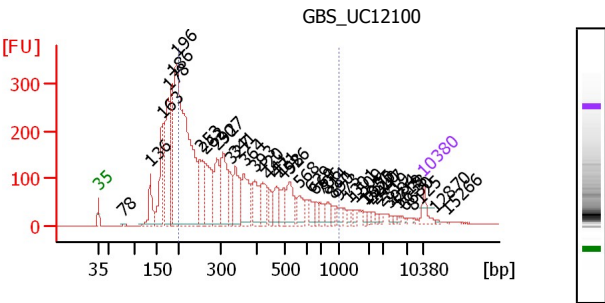
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Electropherogram Summary Continued ...

Peak table for sample 2 : GBS UC07105

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time	Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time
1	35	125.00	5,411.3	Lower Marker	43.00	23	940	55.90	90.1		94.05
2	77	12.69	248.8		48.33	24	1,069	29.47	41.8		95.31
3	136	58.14	645.9		54.23	25	1,280	23.08	27.3		96.62
4	177	1,675.85	14,338.5		58.02	26	1,415	32.41	34.7		97.47
5	186	655.77	5,337.2		58.86	27	1,610	24.53	23.1		98.68
6	196	1,516.77	11,710.5		59.80	28	1,873	20.64	16.7		100.32
7	210	2,090.97	15,116.3		61.01	29	1,955	45.14	35.0		100.83
8	253	1,147.95	6,875.6		64.95	30	2,523	13.76	8.3		102.80
9	291	426.48	2,219.1		68.41	31	2,683	17.90	10.1		103.31
10	307	760.94	3,755.7		69.76	32	2,987	20.33	10.3		104.30
11	340	349.00	1,553.7		72.43	33	3,722	14.02	5.7		105.28
12	363	412.72	1,724.8		74.21	34	4,763	10.93	3.5		106.64
13	392	288.47	1,113.9		76.60	35	5,301	21.07	6.0		107.34
14	423	356.35	1,276.5		78.51	36	7,306	8.48	1.8		109.86
15	468	182.36	590.2		81.09	37	8,040	10.06	1.9		110.61
16	495	148.28	453.7		82.63	38	10,380	75.00	10.9	Upper Marker	113.00
17	525	261.75	755.6		84.08	39	13,179	0.00	0.0		115.85
18	567	119.37	318.7		86.09	40	15,014	0.00	0.0		117.73
19	588	50.22	129.3		87.08	41	16,758	0.00	0.0		119.50
20	624	91.19	221.3		88.39	42	18,272	0.00	0.0		121.05
21	664	58.14	132.7		89.60						
22	795	128.71	245.4		92.04						



Peak table for sample 3 : GBS UC12100

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time
1	35	125.00	5,411.3	Lower Marker	43.00
2	78	11.08	216.3		48.37
3	136	253.87	2,835.2		54.16
4	163	459.84	4,277.2		56.70
5	178	676.04	5,758.8		58.09
6	186	527.83	4,308.7		58.81
7	196	2,725.54	21,020.8		59.82
8	253	350.70	2,100.6		64.94
9	262	495.86	2,862.4		65.81
10	292	327.64	1,699.5		68.49
11	307	466.48	2,300.6		69.78
12	327	129.31	599.2		71.36
13	341	314.66	1,399.1		72.47
14	364	312.86	1,304.0		74.29
15	393	218.85	844.0		76.63
16	420	193.76	698.6		78.36
17	441	92.60	317.9		79.56
18	471	137.07	441.2		81.23
19	498	133.09	405.2		82.77
20	526	204.98	589.9		84.16
21	568	117.95	314.6		86.12
22	629	67.70	163.2		88.52
23	669	35.64	80.7		89.76
24	706	60.10	128.9		90.82

Overall Results for sample 3 : GBS UC12100

Number of peaks found: 40
 Noise: 0.6
 Corr. Area 1: 4,899.8

Region table for sample 3 : GBS UC12100

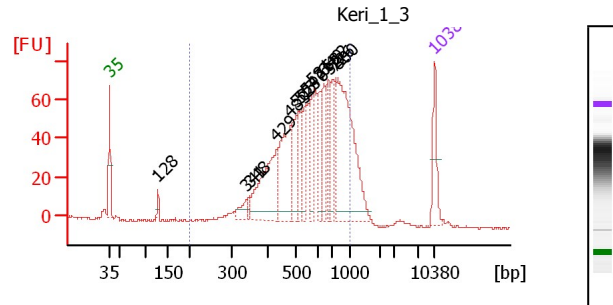
From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Conc. [pg/μl]	% of Total in CV [%]	Size distribution
200	1,000	372	4,899.8	29,084.6	5,800.4	66	44.2

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Electropherogram Summary Continued ...

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time
25	814	71.05	132.3		92.30
26	890	35.07	59.7		93.36
27	973	41.87	65.2		94.51
28	1,301	21.19	24.7		96.76
29	1,509	19.02	19.1		98.05
30	1,855	17.60	14.4		100.21
31	1,970	13.58	10.4		100.93
32	2,210	17.94	12.3		101.79
33	2,447	18.14	11.2		102.56
34	2,819	11.96	6.4		103.75
35	3,984	14.48	5.5		105.62
36	4,719	11.77	3.8		106.58
37	5,638	9.46	2.5		107.78
38	6,630	7.02	1.6		109.07
39	8,125	5.90	1.1		110.70
40	10,380	75.00	10.9	Upper Marker	113.00
41	12,870	0.00	0.0		115.54
42	15,266	0.00	0.0		117.98



Overall Results for sample 4 : Keri_1_3

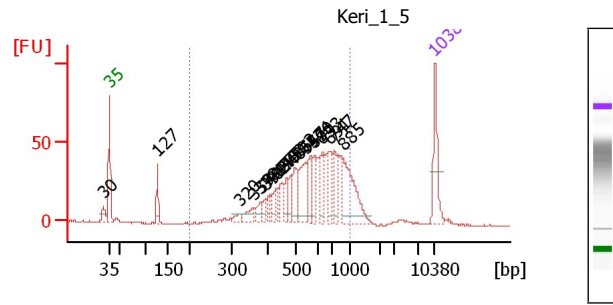
Number of peaks found: 14
 Noise: 0.5
 Corr. Area 1: 1,349.7

Region table for sample 4 : Keri_1_3

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Conc. [pg/μl]	% of Total	Size distribution CV [%]
200	1,000	603	1,349.7	5,409.4	1,929.9	90	28.0

Peak table for sample 4 : Keri_1_3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time
1	35	125.00	5,411.3	Lower Marker	43.00
2	128	22.90	271.1		53.44
3	341	43.03	191.2		72.49
4	348	16.19	70.5		73.02
5	429	263.82	932.1		78.85
6	483	240.83	756.2		81.91
7	505	109.55	328.9		83.12
8	525	85.49	246.6		84.10
9	547	95.69	265.2		85.12
10	581	99.13	258.7		86.72
11	632	91.78	220.1		88.61
12	649	95.18	222.2		89.15
13	682	70.95	157.6		90.17
14	726	98.40	205.3		91.09
15	800	453.76	859.4		92.11
16	10,380	75.00	10.9	Upper Marker	113.00



Overall Results for sample 5 : Keri_1_5

Number of peaks found: 19
 Noise: 0.3
 Corr. Area 1: 844.6

Region table for sample 5 : Keri_1_5

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Conc. [pg/μl]	% of Total	Size distribution CV [%]
200	1,000	599	844.6	2,631.1	930.03	85	28.0

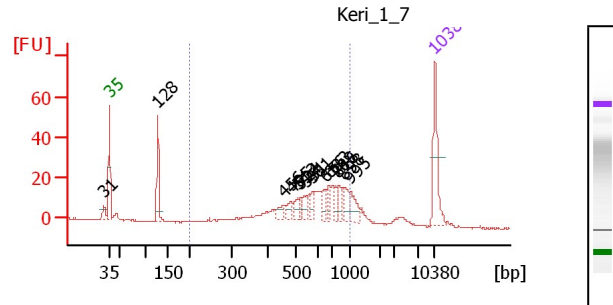
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Electropherogram Summary Continued ...

Peak table for sample 5 : Keri_1_5

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time
1	30	0.00	0.0		41.67
2	35	125.00	5,411.3	Lower Marker	43.00
3	127	51.27	612.0		53.34
4	320	14.37	68.0		70.83
5	359	29.46	124.5		73.89
6	378	21.09	84.6		75.41
7	391	22.15	85.8		76.50
8	405	20.60	77.1		77.48
9	427	35.45	125.7		78.76
10	443	28.17	96.4		79.65
11	468	34.08	110.4		81.08
12	486	38.57	120.2		82.11
13	502	52.79	159.3		83.00
14	547	93.53	259.2		85.12
15	574	58.00	153.1		86.40
16	590	37.59	96.6		87.14
17	633	46.25	110.6		88.67
18	691	46.16	101.3		90.44
19	747	47.05	95.5		91.37
20	885	137.97	236.1		93.30
21	10,380	75.00	10.9	Upper Marker	113.00



Overall Results for sample 6 : Keri_1_7

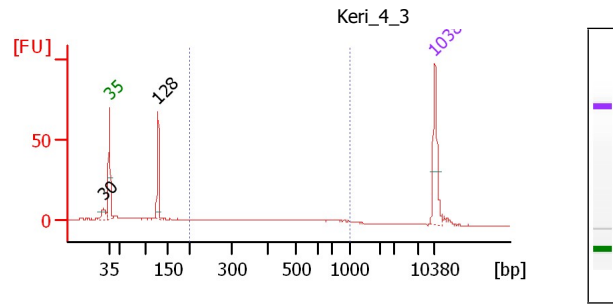
Number of peaks found: 14
 Noise: 0.2
 Corr. Area 1: 315.0

Region table for sample 6 : Keri_1_7

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Conc. [pg/μl]	% of Total	Size distribution CV [%]
200	1,000	616	315.0	1,135.1	407.09	72	28.6

Peak table for sample 6 : Keri_1_7

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time
1	31	0.00	0.0		41.81
2	35	125.00	5,411.3	Lower Marker	43.00
3	128	88.79	1,054.0		53.41
4	456	18.21	60.5		80.38
5	485	20.11	62.8		82.07
6	512	20.20	59.8		83.45
7	524	11.22	32.4		84.05
8	551	20.15	55.4		85.34
9	581	14.67	38.3		86.73
10	656	22.49	52.0		89.35
11	683	16.62	36.9		90.20
12	769	15.17	29.9		91.68
13	816	23.79	44.2		92.33
14	898	26.51	44.7		93.47
15	995	32.10	48.9		94.81
16	10,380	75.00	10.9	Upper Marker	113.00



Overall Results for sample 7 : Keri_4_3

Number of peaks found: 2
 Noise: 0.2
 Corr. Area 1: 66.5

Region table for sample 7 : Keri_4_3

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Conc. [pg/μl]	% of Total	Size distribution CV [%]
200	1,000	471	66.5	329.5	80.68	33	41.1

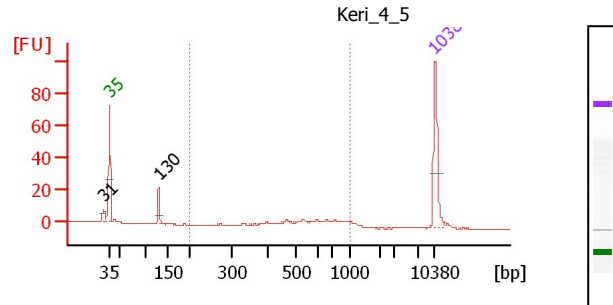
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Electropherogram Summary Continued ...

Peak table for sample 7 : Keri_4_3

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time
1	30	0.00	0.0		41.70
2	35	125.00	5,411.3	Lower Marker	43.00
3	128	89.45	1,056.6		53.47
4	10,380	75.00	10.9	Upper Marker	113.00



Overall Results for sample 8 : Keri_4_5

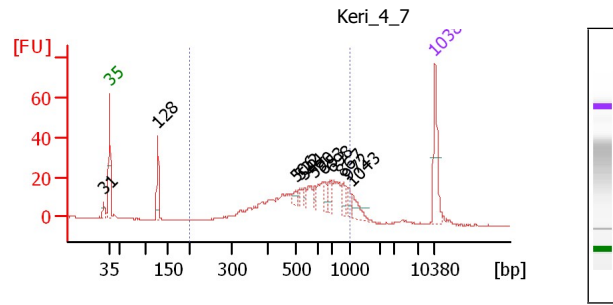
Number of peaks found: 2
 Noise: 0.2
 Corr. Area 1: 48.1

Region table for sample 8 : Keri_4_5

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Conc. [pg/ μ l]	% of Total	Size distribution in CV [%]
200	1,000	627	48.1	135.0	51.54	53	25.1

Peak table for sample 8 : Keri_4_5

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time
1	31	0.00	0.0		41.75
2	35	125.00	5,411.3	Lower Marker	43.00
3	130	30.45	356.1		53.59
4	10,380	75.00	10.9	Upper Marker	113.00



Overall Results for sample 9 : Keri_4_7

Number of peaks found: 11
 Noise: 0.2
 Corr. Area 1: 398.0

Region table for sample 9 : Keri_4_7

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Conc. [pg/ μ l]	% of Total	Size distribution in CV [%]
200	1,000	587	398.0	1,711.8	584.47	82	29.9

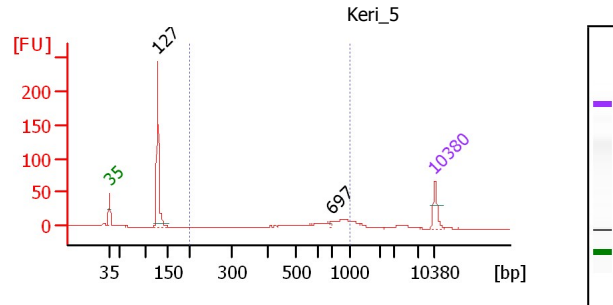
Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-19\2017-05-19_002.xad

Created: 5/19/2017 11:53:20 AM
 Modified: 5/19/2017 12:31:46 PM

Electropherogram Summary Continued ...

Peak table for sample 9 : Keri 4 7

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time
1	31	0.00	0.0		41.79
2	35	125.00	5,411.3	Lower Marker	43.00
3	128	75.96	901.8		53.41
4	506	12.77	38.3		83.18
5	522	9.95	28.9		83.93
6	544	11.24	31.3		84.99
7	590	12.31	31.6		87.15
8	653	14.77	34.3		89.26
9	698	28.32	61.5		90.67
10	867	20.62	36.0		93.04
11	972	12.93	20.2		94.49
12	1,043	29.10	42.3		95.15
13	10,380	75.00	10.9	Upper Marker	113.00



Overall Results for sample 10 : Keri 5

Number of peaks found: 2
 Noise: 0.2
 Corr. Area 1: 117.5

Region table for sample 10 : Keri 5

From [bp]	To [bp]	Average Size [bp]	Corrected Area [bp]	Molarity [pmol/l]	Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	682	117.5	464.0	187.29	28	26.1

Peak table for sample 10 : Keri 5

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time
1	35	125.00	5,411.3	Lower Marker	43.00
2	127	598.30	7,144.6		53.34
3	697	9.55	20.8		90.65
4	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-19\2017-05-19_002.xad

Created: 5/19/2017 11:53:20 AM
Modified: 5/19/2017 12:31:46 PM

Gel Image

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-19\2017-05-19_002.xad

Created: 5/19/2017 11:53:20 AM
Modified: 5/19/2017 12:31:46 PM

Invalid Samples

Sample 11 has not been run, no results available.