

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-29\2018-06-29\_002.xad

Created: 6/29/2018 3:26:00 PM  
Modified: 6/29/2018 3:53:59 PM

**Electrophoresis File Run Summary**

Instrument Information:

Instrument Name: DE34903152                      Firmware: C.01.069  
Serial#: DE34903152                                Type: G2938C

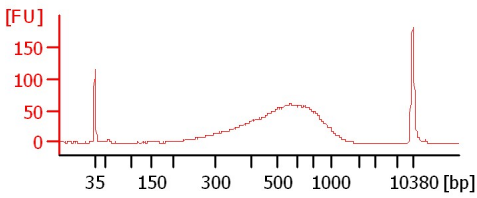
Assay Information:

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

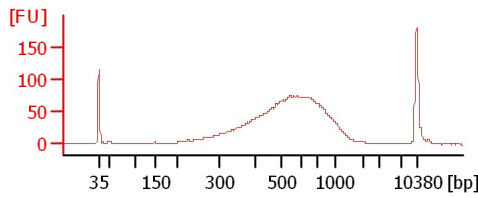
Chip Information:

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

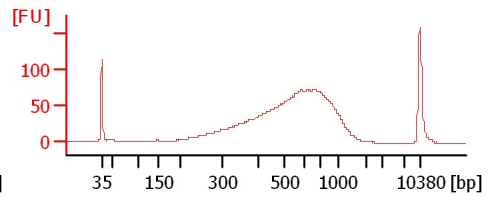
**Nextera Z17**



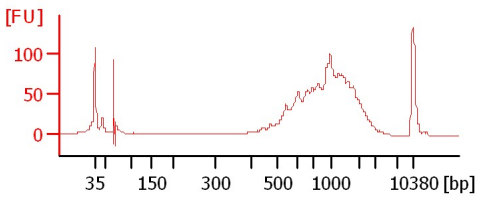
**Nextera Z18**



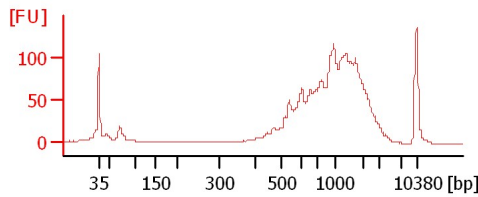
**Nextera Z19**



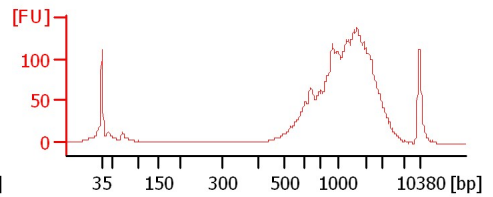
**Superpool Z17**



**Superpool Z18**



**Superpool Z19**



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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Nextera Z17		<input type="checkbox"/>	✓			
Nextera Z18		<input type="checkbox"/>	✓			
Nextera Z19		<input type="checkbox"/>	✓			
Superpool Z17		<input type="checkbox"/>	✓			
Superpool Z18		<input type="checkbox"/>	✓			
Superpool Z19		<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 :**

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**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

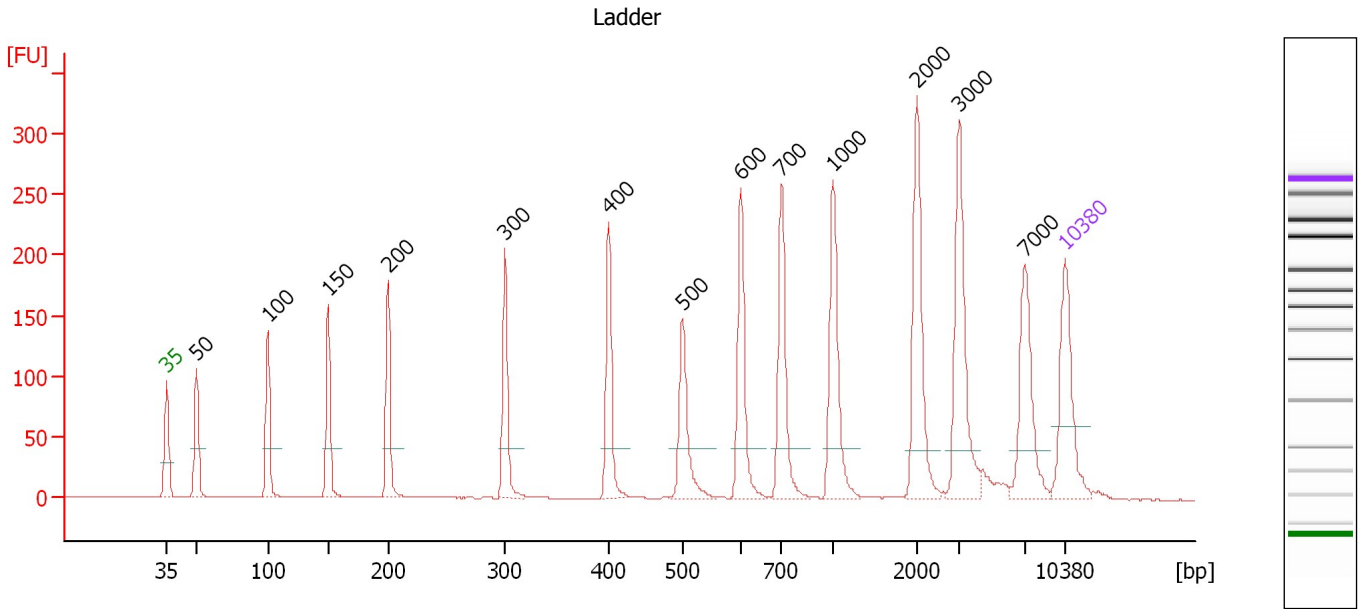
**Ladder**

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

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**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

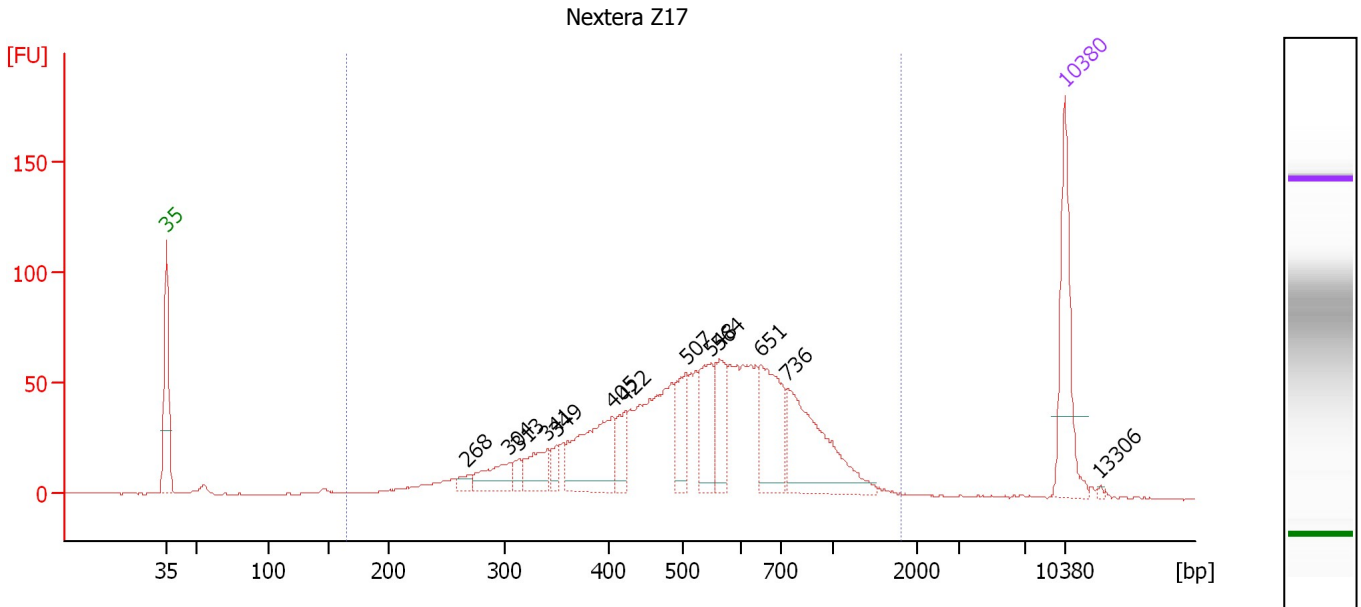
**Peak table for Ladder**

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	45.33
3	100	150.00	2,272.7	Ladder Peak	50.87
4	150	150.00	1,515.2	Ladder Peak	55.57
5	200	150.00	1,136.4	Ladder Peak	60.23
6	300	150.00	757.6	Ladder Peak	69.36
7	400	150.00	568.2	Ladder Peak	77.46
8	500	150.00	454.5	Ladder Peak	83.19
9	600	150.00	378.8	Ladder Peak	87.76
10	700	150.00	324.7	Ladder Peak	90.92
11	1,000	150.00	227.3	Ladder Peak	94.93
12	2,000	150.00	113.6	Ladder Peak	101.45
13	3,000	150.00	75.8	Ladder Peak	104.80
14	7,000	150.00	32.5	Ladder Peak	109.83
15	10,380	75.00	10.9	Upper Marker	113.00

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**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : Nextera Z17**

Number of peaks found: 13                      Corr. Area 1: 1,425.3  
 Noise: 0.3

**Peak table for sample 1 : Nextera Z17**

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	268	10.03	56.7		66.44
3	304	37.57	187.1		69.70
4	313	11.78	57.0		70.41
5	341	39.52	175.6		72.68
6	349	14.38	62.4		73.34
7	405	105.98	396.7		77.74
8	422	28.52	102.4		78.73
9	507	47.95	143.3		83.51
10	548	56.89	157.2		85.40
11	564	48.20	129.5		86.11
12	651	89.04	207.3		89.37
13	736	126.91	261.4		91.40
14	10,380	75.00	10.9	Upper Marker	113.00
15	13,306	0.00	0.0		115.74

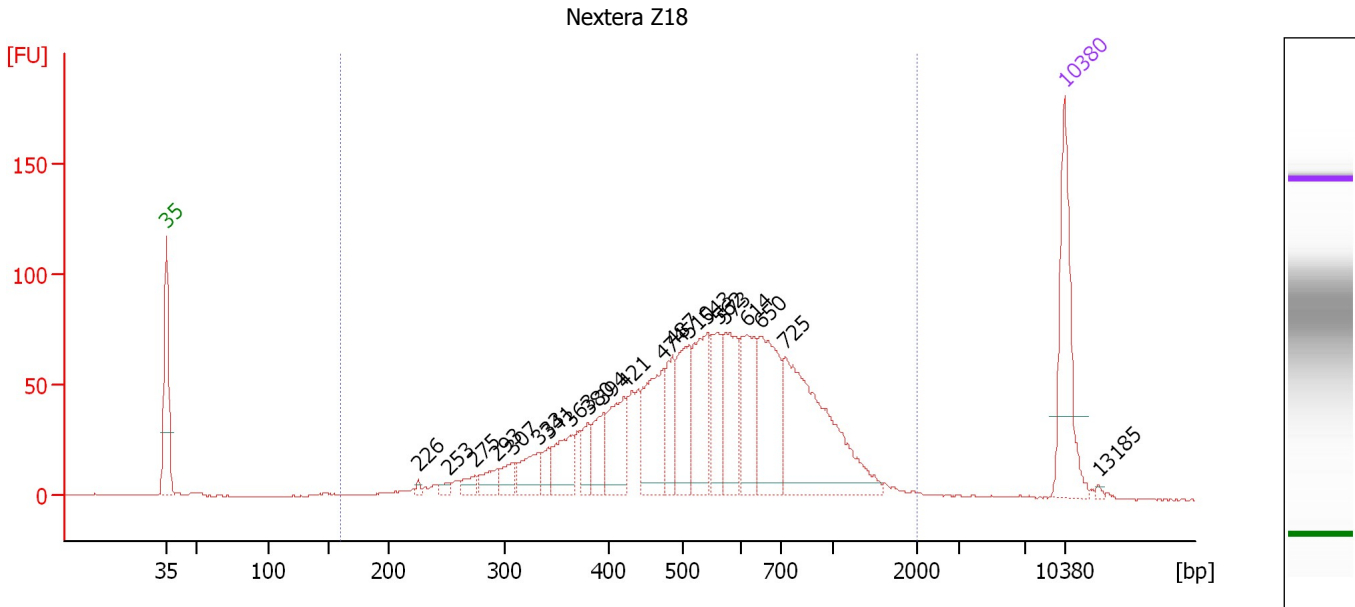
**Region table for sample 1 : Nextera Z17**

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
165	1,810	564	1,030.11	1,425.3	3,345.4	97	39.2

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**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : Nextera Z18**

Number of peaks found: 21                      Corr. Area 1: 1,707.9  
 Noise: 0.3

**Peak table for sample 2 : Nextera Z18**

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	226	3.99	26.8		62.59
3	253	6.62	39.7		65.03
4	275	12.33	68.0		67.03
5	293	19.89	102.9		68.71
6	307	18.39	90.8		69.90
7	333	31.22	142.2		72.00
8	341	17.82	79.1		72.72
9	363	41.02	171.4		74.44
10	380	23.40	93.4		75.83
11	394	36.05	138.7		76.97
12	421	60.11	216.5		78.65
13	474	81.51	260.5		81.70
14	487	43.27	134.8		82.42
15	510	66.14	196.4		83.66
16	543	75.33	210.3		85.14
17	562	44.54	120.2		86.00
18	573	68.93	182.3		86.53
19	614	70.65	174.3		88.20
20	650	92.22	214.9		89.35
21	725	180.36	376.9		91.26
22	10,380	75.00	10.9	Upper Marker	113.00
23	13,185	0.00	0.0		115.63

Assay Class: High Sensitivity DNA Assay  
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**Electropherogram Summary Continued ...**

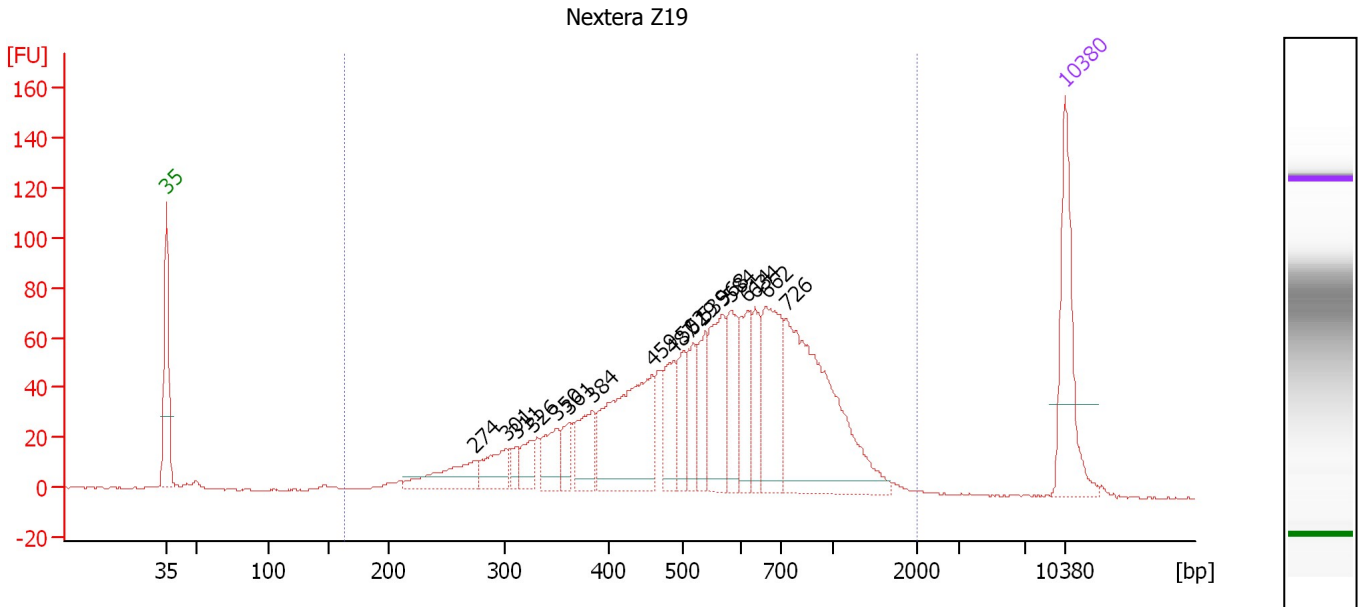
... Region table for sample 2 : Nextera Z18

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ $\mu$ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
160	2,013	591	1,125.38	1,707.9	3,510.9	 98	41.8

Assay Class: High Sensitivity DNA Assay  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : Nextera Z19**

Number of peaks found: 18                      Corr. Area 1: 1,710.5  
 Noise: 0.4

**Peak table for sample 3 : Nextera Z19**

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	274	49.36	272.6		67.02
3	301	38.17	192.0		69.46
4	311	11.91	57.9		70.29
5	326	22.64	105.1		71.51
6	350	35.50	153.7		73.41
7	361	21.55	90.3		74.34
8	384	48.31	190.7		76.15
9	459	155.82	514.6		80.83
10	487	49.29	153.4		82.44
11	502	31.95	96.5		83.27
12	519	32.96	96.3		84.05
13	539	36.19	101.7		84.98
14	568	74.25	198.0		86.30
15	584	49.83	129.3		87.03
16	614	51.31	126.6		88.20
17	634	38.99	93.2		88.84
18	662	91.54	209.6		89.72
19	726	224.74	468.7		91.28
20	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 3 : Nextera Z19**

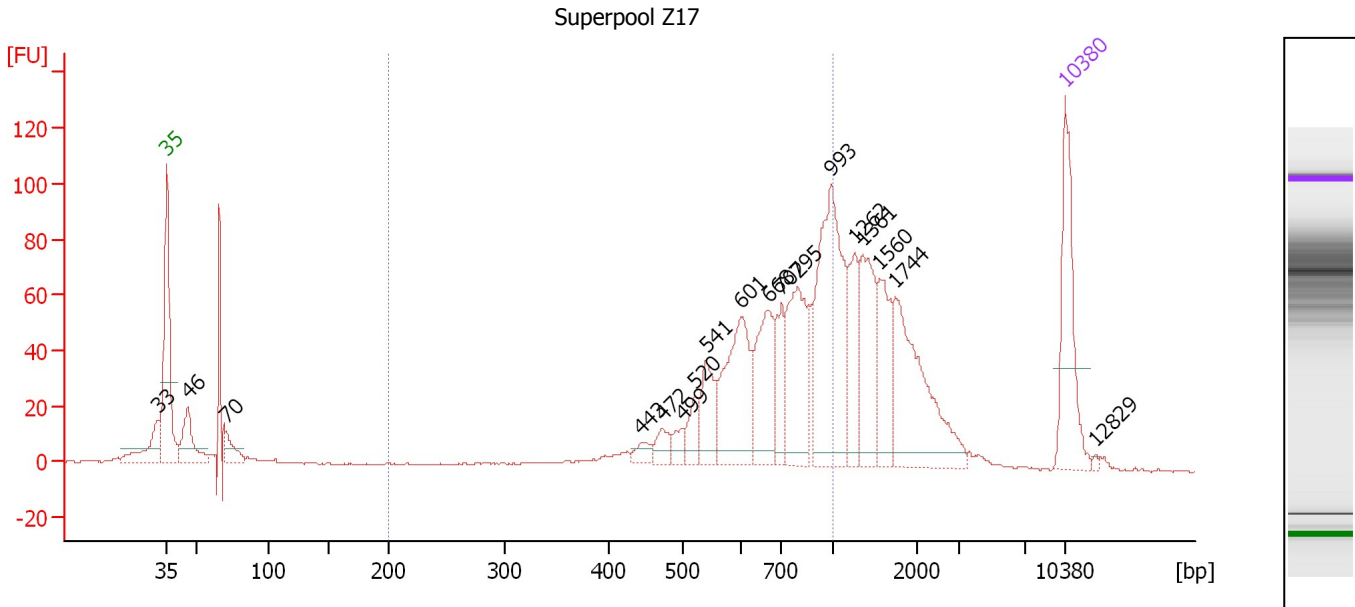
From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
164	2,003	602	1,173.02	1,710.5	3,694.3	98	43.0



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**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : Superpool Z17**

Number of peaks found: 18                      Corr. Area 1: 733.9  
 Noise: 0.2

**Peak table for sample 4 : Superpool Z17**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	33	0.00	0.0		42.30
2	35	125.00	5,411.3	Lower Marker	43.00
3	46	54.93	1,824.8		44.65
4	70	26.45	569.3		47.59
5	443	11.04	37.8		79.92
6	472	16.36	52.5		81.62
7	499	11.89	36.1		83.16
8	520	21.84	63.6		84.11
9	541	42.06	117.8		85.06
10	601	106.18	267.5		87.80
11	668	77.69	176.3		89.90
12	702	42.31	91.4		90.95
13	795	93.10	177.4		92.19
14	993	172.16	262.6		94.84
15	1,262	48.61	58.4		96.64
16	1,361	72.37	80.6		97.28
17	1,560	52.73	51.2		98.58
18	1,744	114.45	99.4		99.78
19	10,380	75.00	10.9	Upper Marker	113.00
20	12,829	0.00	0.0		115.30

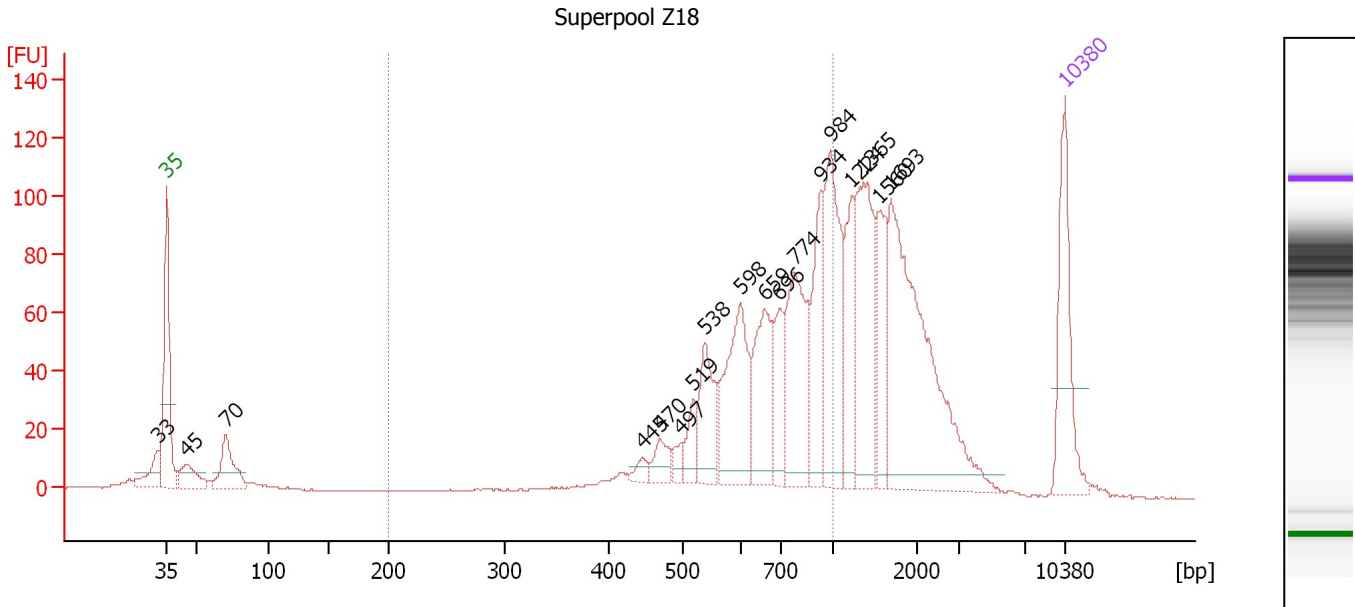
**Region table for sample 4 : Superpool Z17**

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	698	590.28	733.9	1,399.3	51	24.0

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**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : Superpool Z18**

Number of peaks found: 18                      Corr. Area 1: 868.7  
 Noise: 0.2

**Peak table for sample 5 : Superpool Z18**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	33	0.00	0.0		42.29
2	35	125.00	5,411.3	Lower Marker	43.00
3	45	34.33	1,168.4		44.48
4	70	55.19	1,188.6		47.59
5	445	9.64	32.8		80.04
6	470	20.28	65.4		81.46
7	497	12.09	36.8		83.04
8	519	22.70	66.3		84.06
9	538	60.06	169.1		84.93
10	598	107.30	271.7		87.68
11	659	79.38	182.6		89.62
12	696	48.17	104.9		90.79
13	774	112.81	220.9		91.91
14	934	71.32	115.7		94.05
15	984	117.14	180.4		94.71
16	1,224	58.25	72.1		96.39
17	1,365	117.95	130.9		97.31
18	1,560	51.70	50.2		98.58
19	1,693	228.02	204.1		99.45
20	10,380	75.00	10.9	Upper Marker	113.00

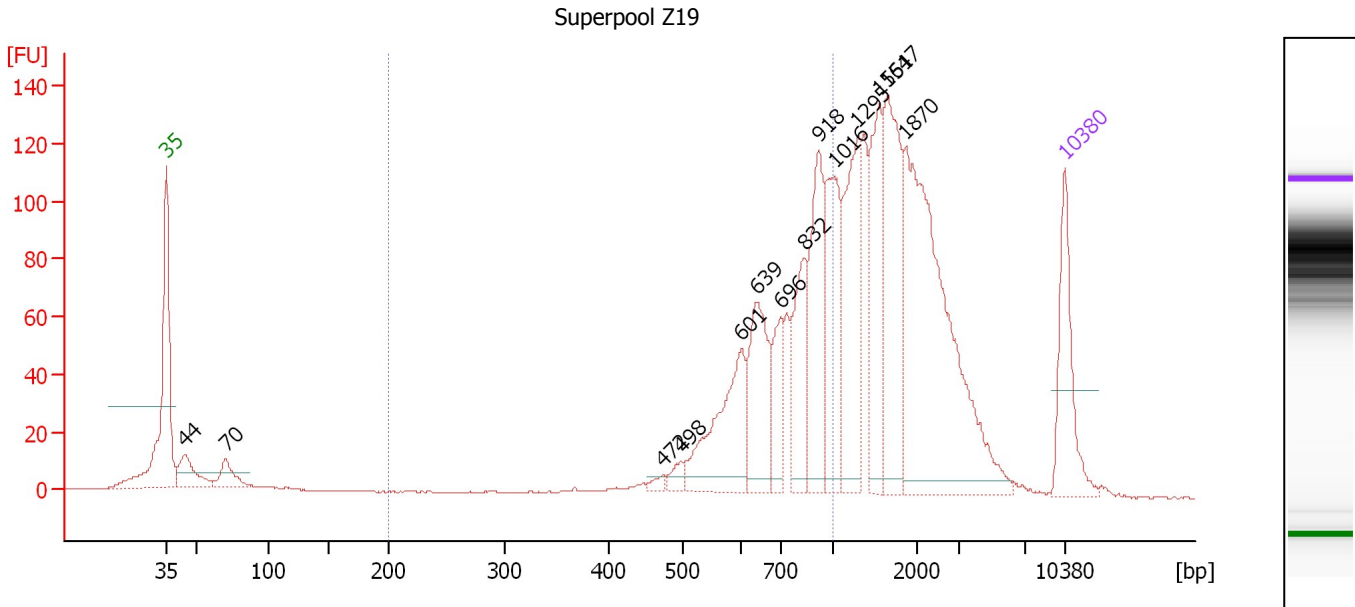
**Region table for sample 5 : Superpool Z18**

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	696	682.05	868.7	1,609.9	48	23.9

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**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : Superpool Z19**

Number of peaks found: 14                      Corr. Area 1: 755.2  
 Noise: 0.1

**Peak table for sample 6 : Superpool Z19**

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	44	51.33	1,765.2		44.41
3	70	34.44	741.9		47.58
4	472	6.56	21.0		81.59
5	498	13.10	39.9		83.05
6	601	127.41	321.1		87.79
7	639	109.44	259.5		88.99
8	696	53.12	115.6		90.81
9	832	79.71	145.1		92.69
10	918	129.84	214.3		93.83
11	1,016	116.10	173.2		95.03
12	1,295	134.60	157.5		96.85
13	1,551	109.63	107.1		98.52
14	1,647	149.44	137.5		99.15
15	1,870	330.45	267.7		100.60
16	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 6 : Superpool Z19**

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	735	654.03	755.2	1,445.9	37	21.5

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**Gel Image**

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**Invalid Samples**

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.