

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-05-21\2018-05-21\_003.xad

Created: 5/21/2018 3:08:15 PM  
Modified: 5/21/2018 3:49:33 PM

**Electrophoresis File Run Summary**

Instrument Information:

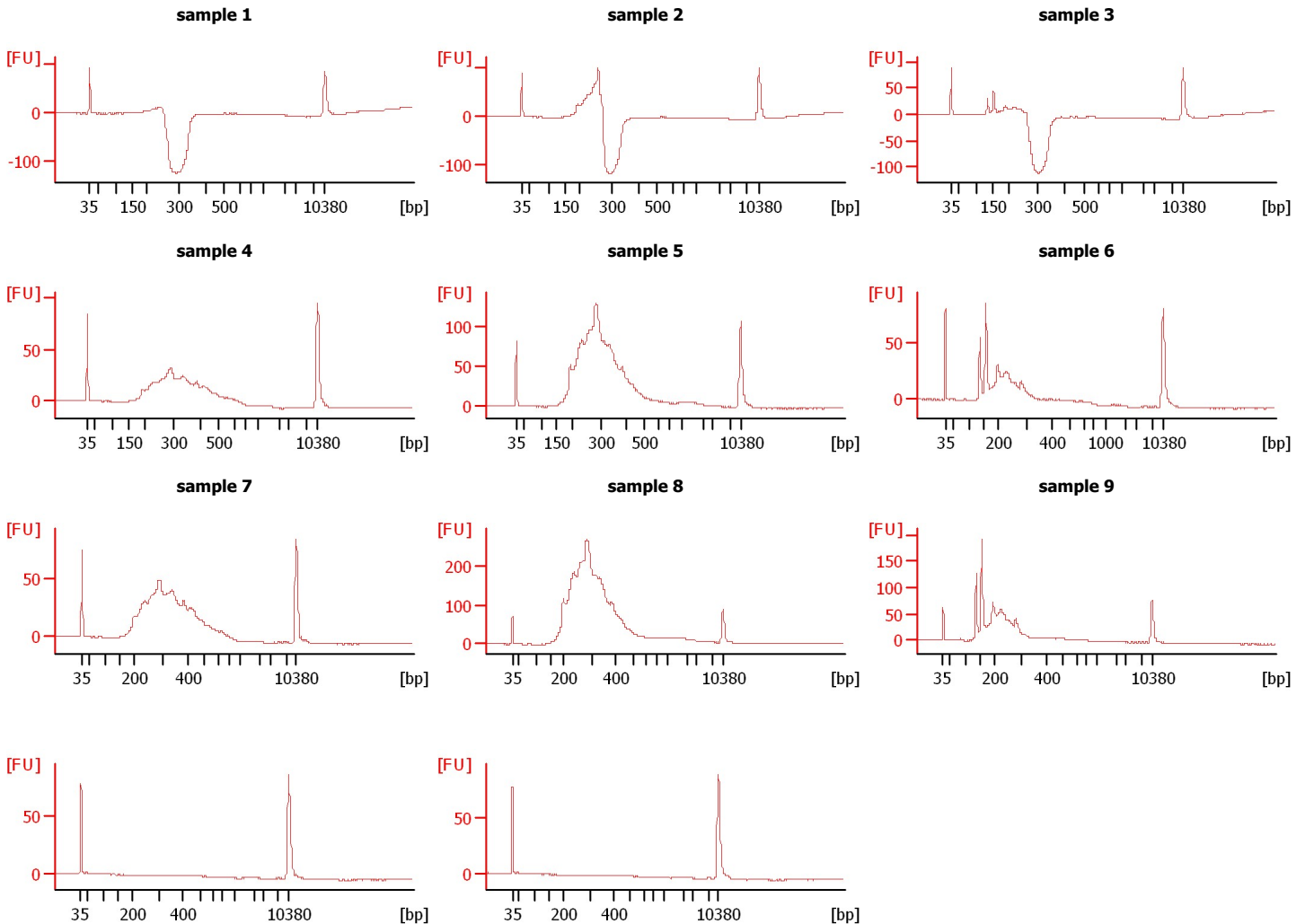
Instrument Name: DE34903152                      Firmware: C.01.069  
Serial#: DE34903152                                Type: G2938C

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:



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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
sample 1		<input type="checkbox"/>	✓			
sample 2		<input type="checkbox"/>	✓			
sample 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"/>	✓			
		<input type="checkbox"/>	✓			
		<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

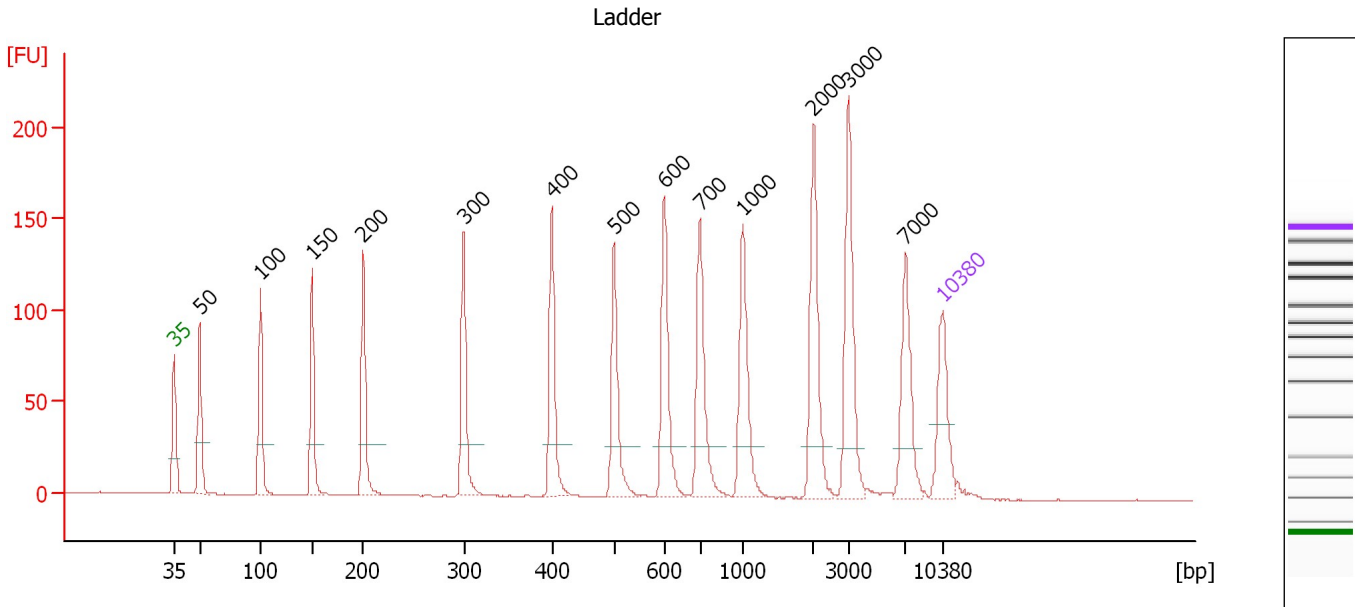
**Ladder**

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: 0.3

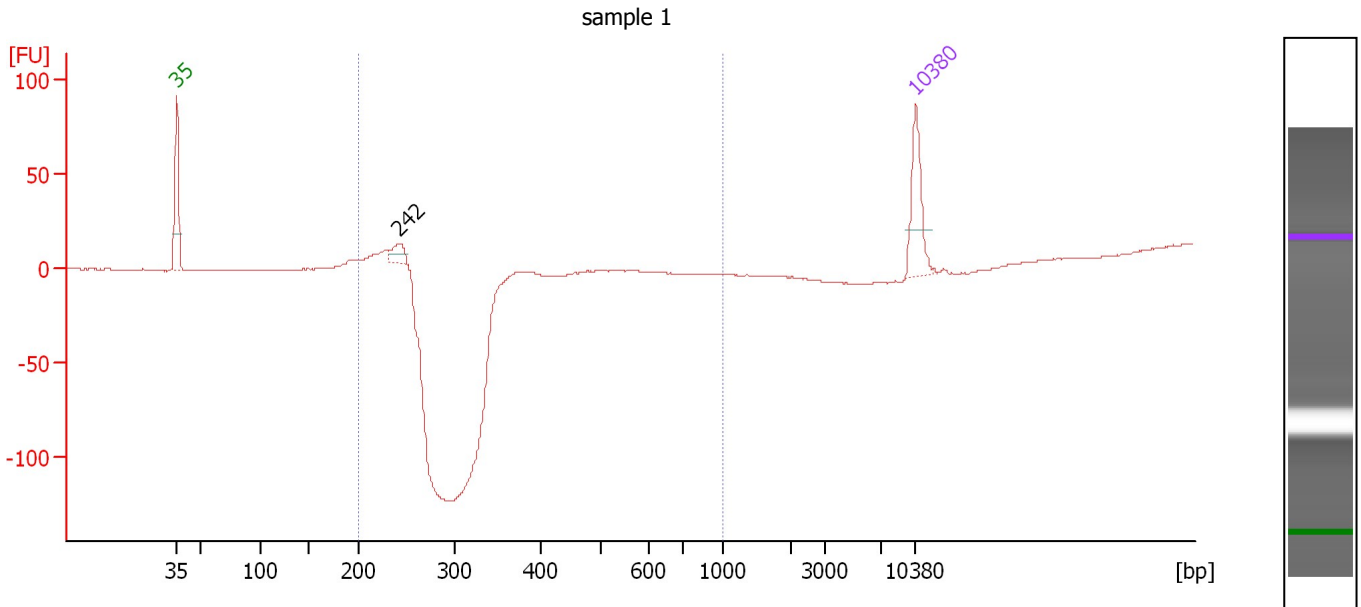
**Peak table for Ladder**

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	55.58
5	200	150.00	1,136.4	Ladder Peak	60.24
6	300	150.00	757.6	Ladder Peak	69.38
7	400	150.00	568.2	Ladder Peak	77.39
8	500	150.00	454.5	Ladder Peak	83.08
9	600	150.00	378.8	Ladder Peak	87.64
10	700	150.00	324.7	Ladder Peak	90.90
11	1,000	150.00	227.3	Ladder Peak	94.78
12	2,000	150.00	113.6	Ladder Peak	101.24
13	3,000	150.00	75.8	Ladder Peak	104.45
14	7,000	150.00	32.5	Ladder Peak	109.65
15	10,380	75.00	10.9	Upper Marker	113.00

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**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : sample 1**

Number of peaks found: 1                      Corr. Area 1: 37.1  
 Noise: 0.3

**Peak table for sample 1 : sample 1**

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	242	34.18	214.1		64.07
3	10,380	75.00	10.9	Upper Marker	113.00

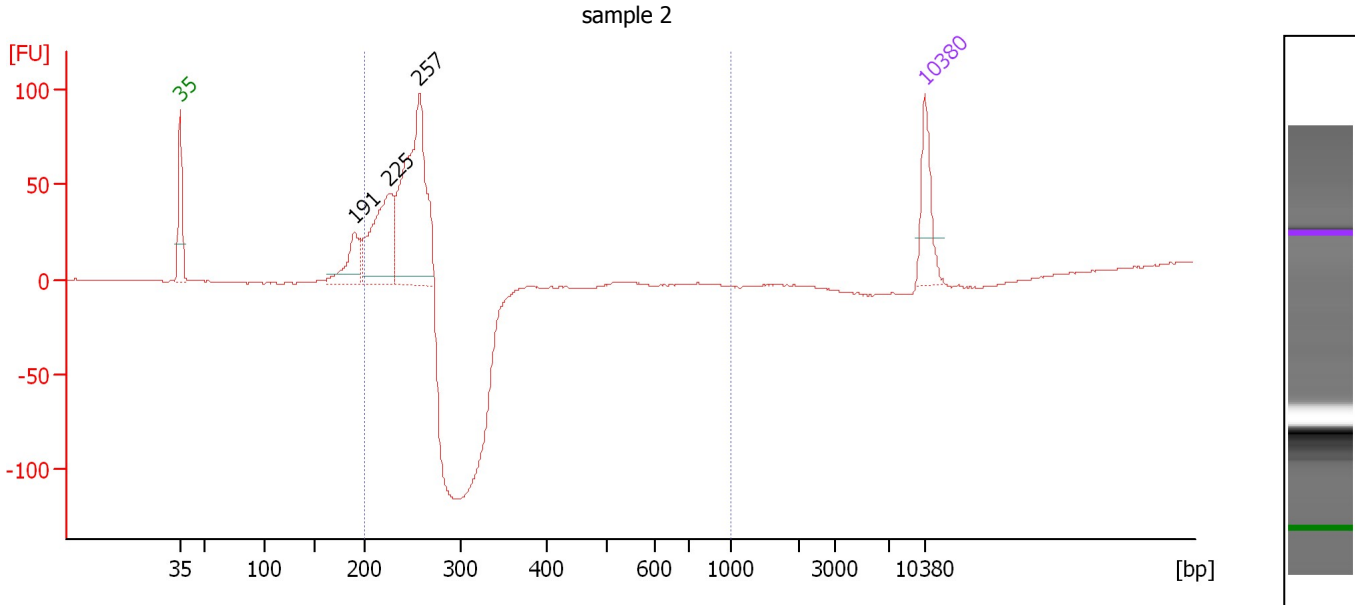
**Region table for sample 1 : sample 1**

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	231	55.52	37.1	364.4	94	5.3

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**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : sample 2**

Number of peaks found: 3                      Corr. Area 1: 478.3  
 Noise: 0.3

**Peak table for sample 2 : sample 2**

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	191	93.82	746.1		59.36
3	225	255.21	1,715.6		62.56
4	257	480.23	2,829.3		65.47
5	10,380	75.00	10.9	Upper Marker	113.00

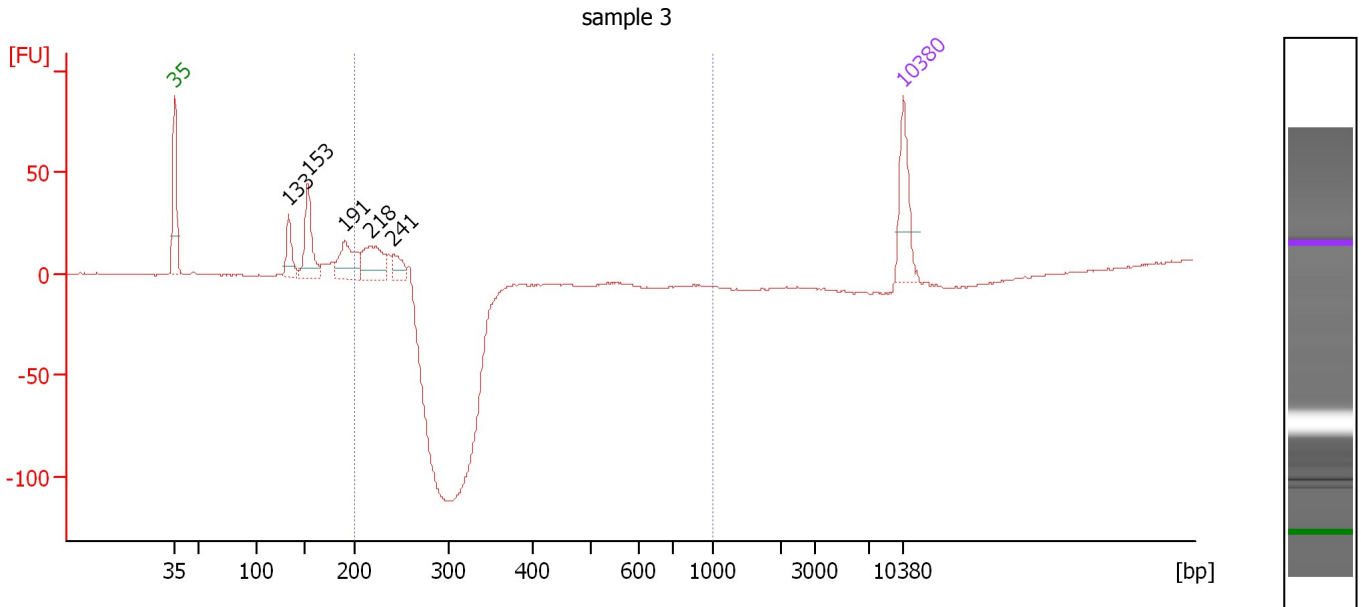
**Region table for sample 2 : sample 2**

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	241	667.35	478.3	4,193.4	90	7.6

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**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : sample 3**

Number of peaks found: 5                      Corr. Area 1: 68.0  
 Noise: 0.3

**Peak table for sample 3 : sample 3**

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	133	61.70	702.1		53.99
3	153	118.10	1,171.8		55.83
4	191	94.95	755.1		59.36
5	218	100.01	695.8		61.87
6	241	36.02	226.2		64.02
7	10,380	75.00	10.9	Upper Marker	113.00

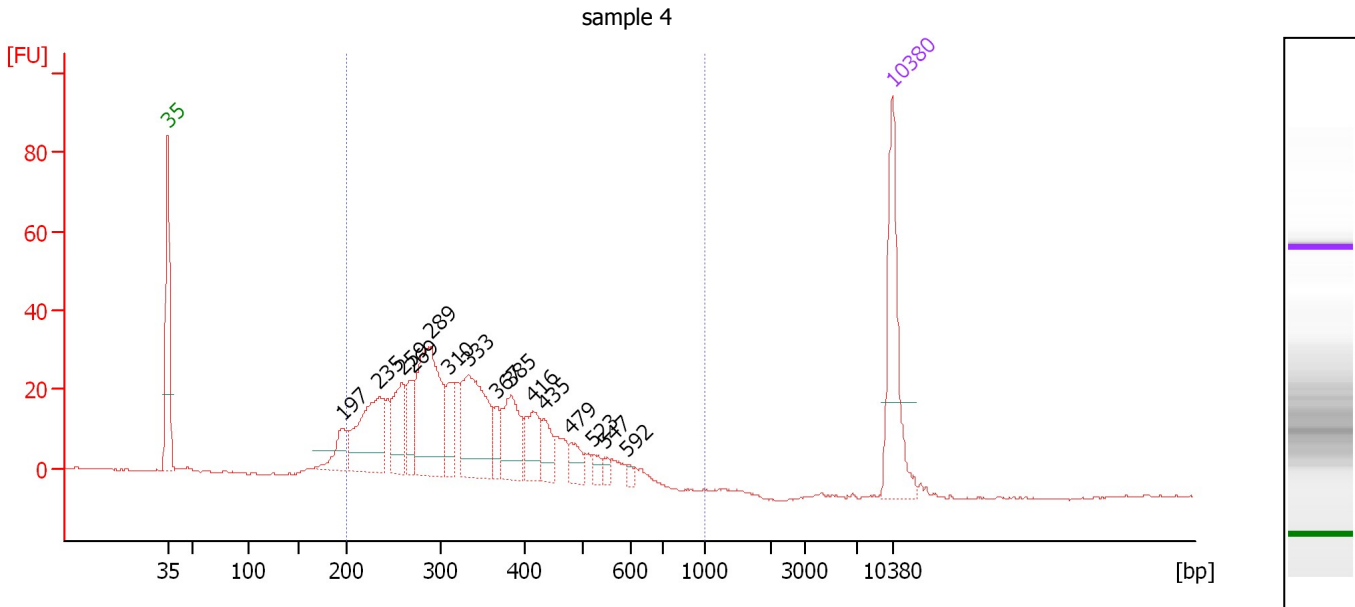
**Region table for sample 3 : sample 3**

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	224	109.92	68.0	744.6	37	6.6

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**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : sample 4**

Number of peaks found: 15                      Corr. Area 1: 662.8  
 Noise: 0.3

**Peak table for sample 4 : sample 4**

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	197	29.70	228.6		59.95
3	235	106.08	683.7		63.45
4	259	53.66	314.2		65.61
5	269	30.08	169.1		66.59
6	289	142.16	744.7		68.39
7	310	33.42	163.6		70.14
8	333	110.35	501.5		72.05
9	367	17.15	70.7		74.78
10	385	53.77	211.7		76.17
11	416	34.39	125.3		78.28
12	435	21.62	75.3		79.36
13	479	17.01	53.8		81.89
14	523	7.91	22.9		84.10
15	547	5.93	16.4		85.24
16	592	4.30	11.0		87.30
17	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 4 : sample 4**

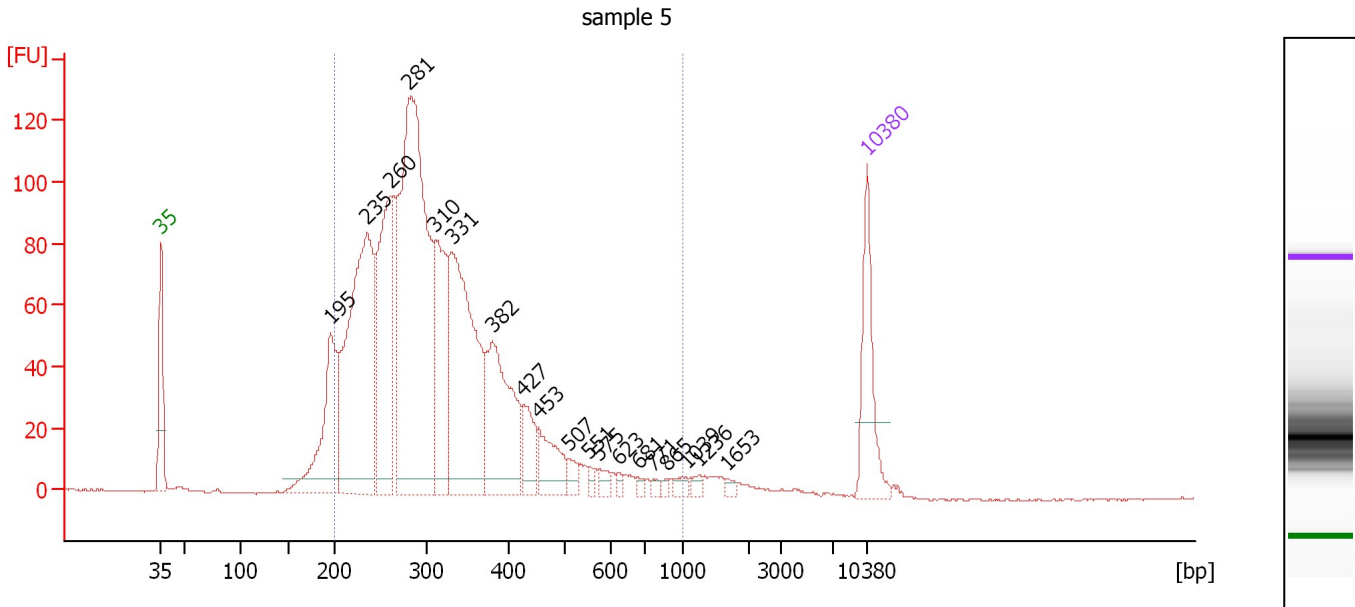
From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	339	739.18	662.8	3,628.1	95	27.5



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**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : sample 5**

Number of peaks found: 19                      Corr. Area 1: 2,119.9  
 Noise: 0.3

**Peak table for sample 5 : sample 5**

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	195	201.30	1,562.3		59.80
3	235	452.46	2,916.7		63.45
4	260	273.57	1,591.2		65.77
5	281	672.70	3,630.5		67.62
6	310	177.52	866.6		70.21
7	331	334.68	1,533.0		71.85
8	382	192.44	764.2		75.91
9	427	48.84	173.3		78.92
10	453	58.35	195.2		80.40
11	507	14.67	43.8		83.42
12	551	6.88	18.9		85.42
13	575	11.00	29.0		86.48
14	623	5.20	12.6		88.38
15	681	4.91	10.9		90.28
16	771	4.75	9.3		91.82
17	865	4.32	7.6		93.03
18	1,039	8.35	12.2		95.04
19	1,236	6.53	8.0		96.31
20	1,653	4.69	4.3		99.00
21	10,380	75.00	10.9	Upper Marker	113.00

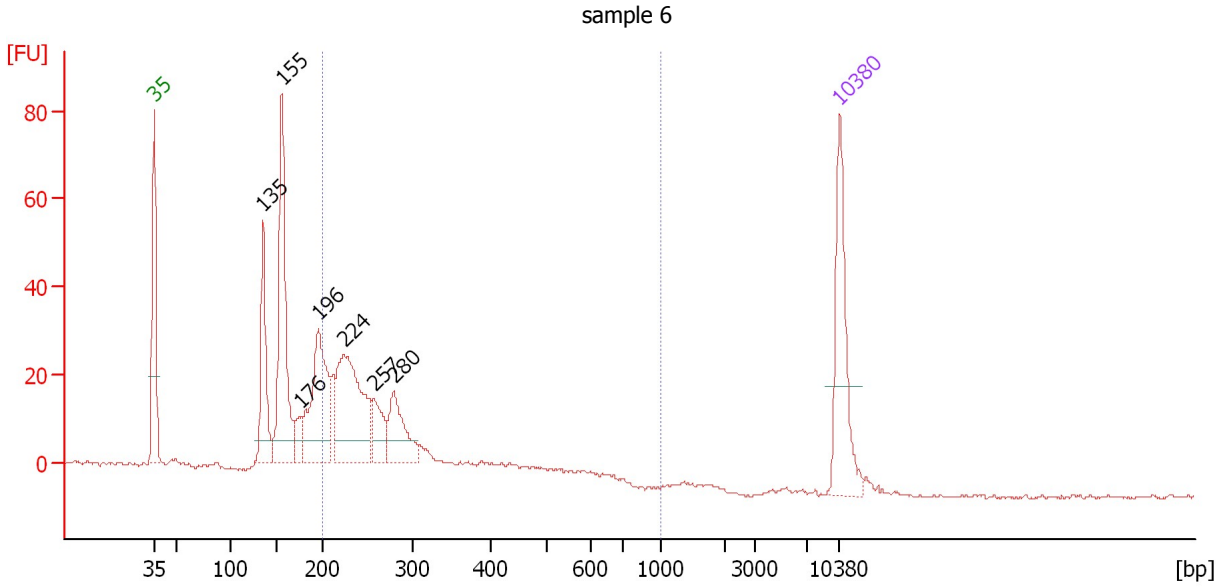
**Region table for sample 5 : sample 5**

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	321	2,352.87	2,119.9	12,150.2	93	32.1

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**Overall Results for sample 6 : sample 6**

Number of peaks found: 7                      Corr. Area 1: 303.0  
 Noise: 0.4

**Peak table for sample 6 : sample 6**

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	135	96.52	1,083.3		54.17
3	155	185.74	1,812.3		56.07
4	176	19.29	166.3		57.98
5	196	134.61	1,042.8		59.83
6	224	160.26	1,086.4		62.39
7	257	36.67	216.2		65.44
8	280	58.77	318.5		67.51
9	10,380	75.00	10.9	Upper Marker	113.00

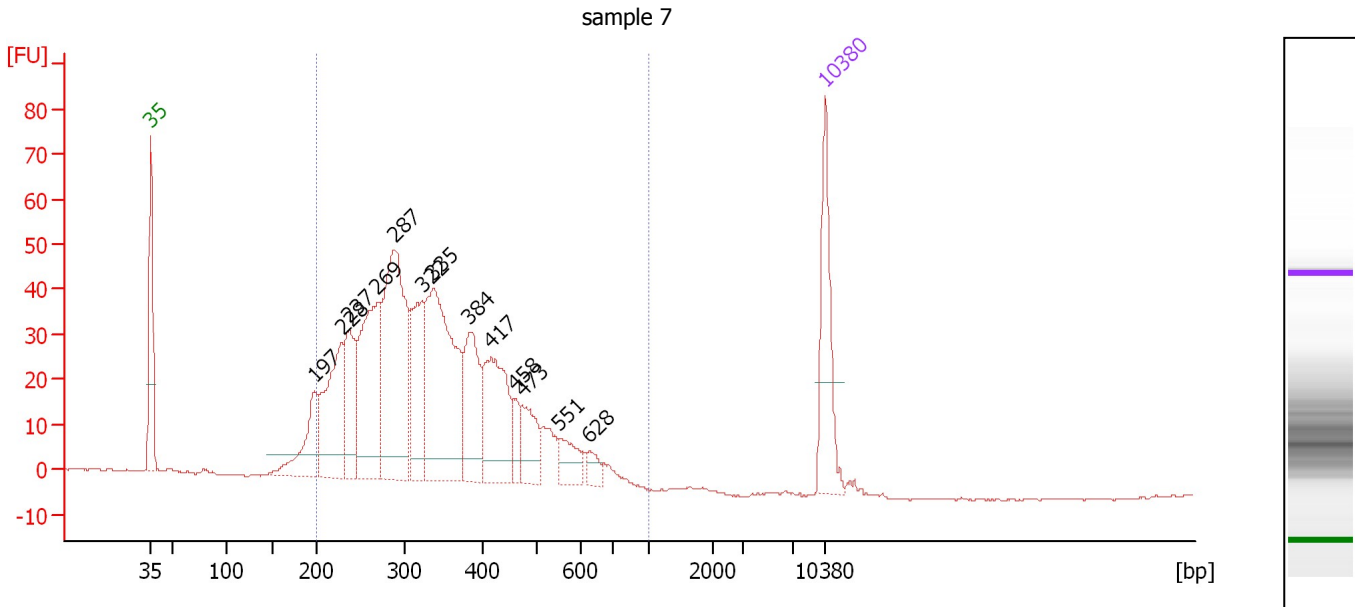
**Region table for sample 6 : sample 6**

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	275	407.80	303.0	2,405.3	52	29.4

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**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : sample 7**

Number of peaks found: 13                      Corr. Area 1: 1,041.7  
 Noise: 0.2

**Peak table for sample 7 : sample 7**

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	197	83.36	640.4		59.99
3	228	142.75	948.3		62.81
4	237	93.42	598.3		63.58
5	269	187.99	1,060.1		66.52
6	287	273.01	1,438.9		68.23
7	322	110.38	520.0		71.11
8	335	259.83	1,173.7		72.22
9	384	99.34	392.2		76.09
10	417	123.63	449.2		78.36
11	458	19.97	66.1		80.68
12	473	49.32	158.1		81.51
13	551	30.18	83.1		85.39
14	628	13.86	33.5		88.54
15	10,380	75.00	10.9	Upper Marker	113.00

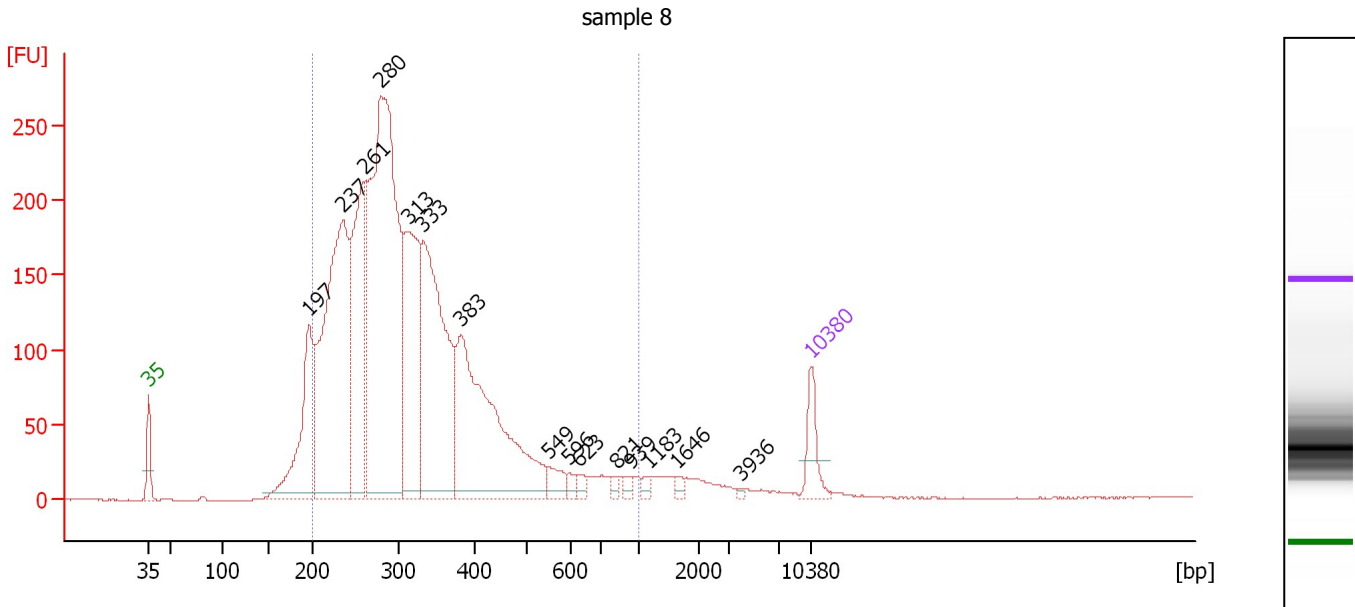
**Region table for sample 7 : sample 7**

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	345	1,436.28	1,041.7	6,984.7	96	29.1

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**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : sample 8**

Number of peaks found: 15                      Corr. Area 1: 4,615.7  
 Noise: 0.2

**Peak table for sample 8 : sample 8**

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	197	488.88	3,768.9		59.92
3	237	1,206.91	7,728.6		63.59
4	261	638.20	3,700.4		65.84
5	280	1,755.01	9,502.1		67.54
6	313	583.10	2,823.3		70.41
7	333	849.64	3,862.0		72.05
8	383	844.62	3,338.7		76.05
9	549	52.00	143.6		85.30
10	596	20.29	51.6		87.45
11	623	19.17	46.6		88.41
12	821	15.85	29.2		92.47
13	939	14.70	23.7		93.99
14	1,183	15.60	20.0		95.97
15	1,646	12.44	11.5		98.95
16	3,936	4.72	1.8		105.67
17	10,380	75.00	10.9	Upper Marker	113.00

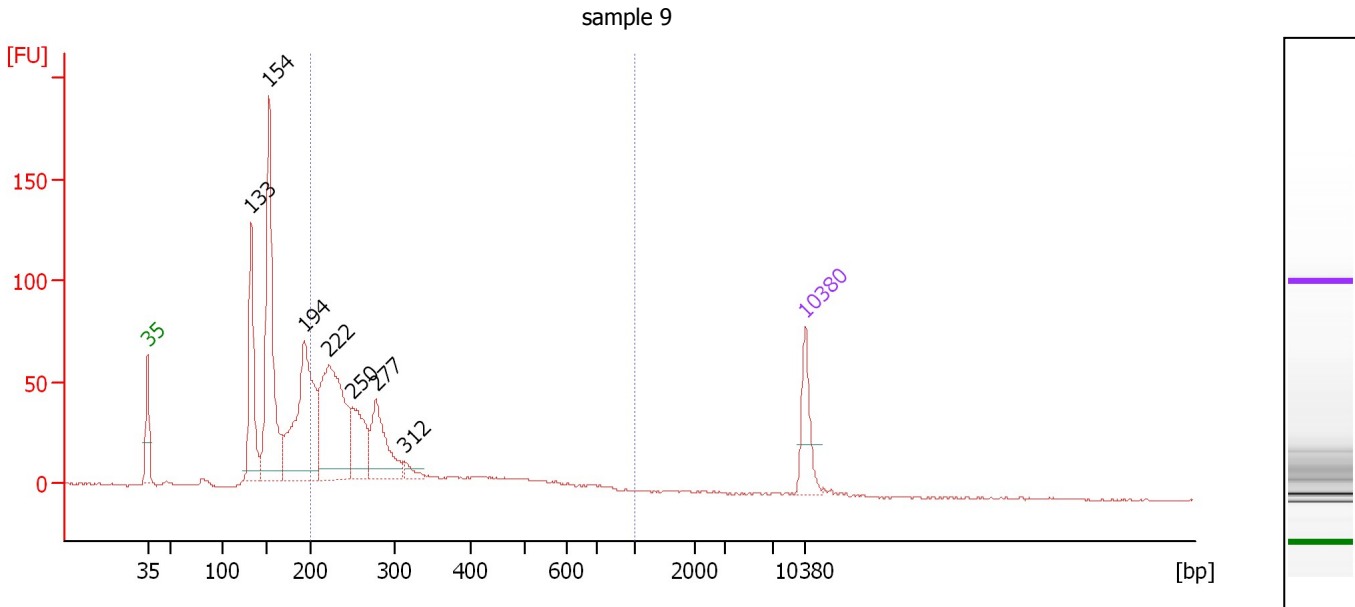
**Region table for sample 8 : sample 8**

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	326	6,207.34	4,615.7	31,863.2	92	33.8

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**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : sample 9**

Number of peaks found: 7                      Corr. Area 1: 750.6  
 Noise: 0.5

**Peak table for sample 9 : sample 9**

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	133	280.19	3,183.2		54.01
3	154	554.40	5,458.6		55.94
4	194	457.90	3,575.1		59.69
5	222	460.67	3,145.4		62.25
6	250	159.88	969.4		64.80
7	277	176.11	962.5		67.30
8	312	21.03	102.0		70.36
9	10,380	75.00	10.9	Upper Marker	113.00

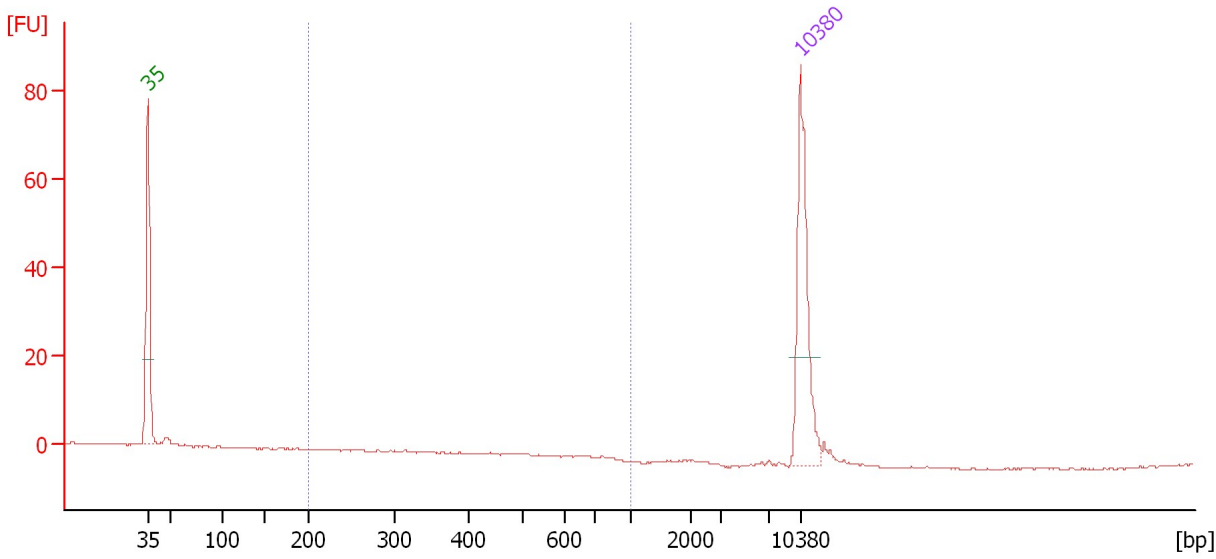
**Region table for sample 9 : sample 9**

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	298	1,275.35	750.6	7,317.5	53	39.6

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**Electropherogram Summary Continued ...**



**Overall Results for sample 10 :**

Number of peaks found: 0                      Corr. Area 1: 0.0  
 Noise: 0.2

**Peak table for sample 10 :**

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	10,380	75.00	10.9	Upper Marker	113.00

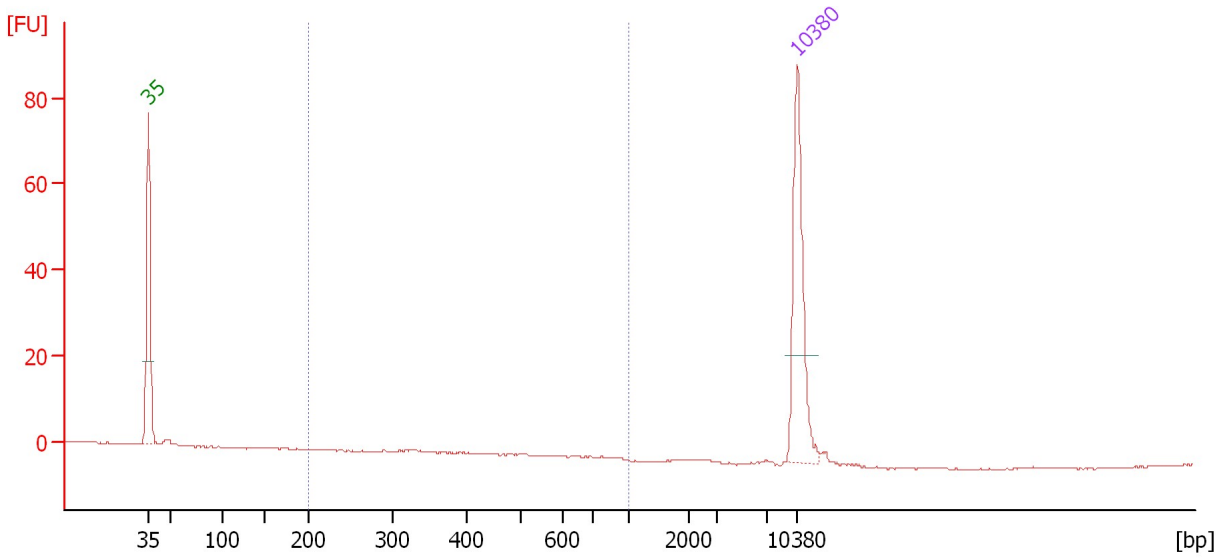
**Region table for sample 10 :**

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	0	0.00	0.0	0.0	0	0.0

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**Electropherogram Summary Continued ...**



**Overall Results for sample 11 :**

Number of peaks found: 0                      Corr. Area 1: 0.0  
 Noise: 0.2

**Peak table for sample 11 :**

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	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 11 :**

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	0	0.00	0.0	0.0	0	0.0

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**Gel Image**