

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-22\2018-06-22\_001.xad

Created: 6/22/2018 9:55:38 AM  
Modified: 6/22/2018 10:36:54 AM

**Electrophoresis File Run Summary**

Instrument Information:

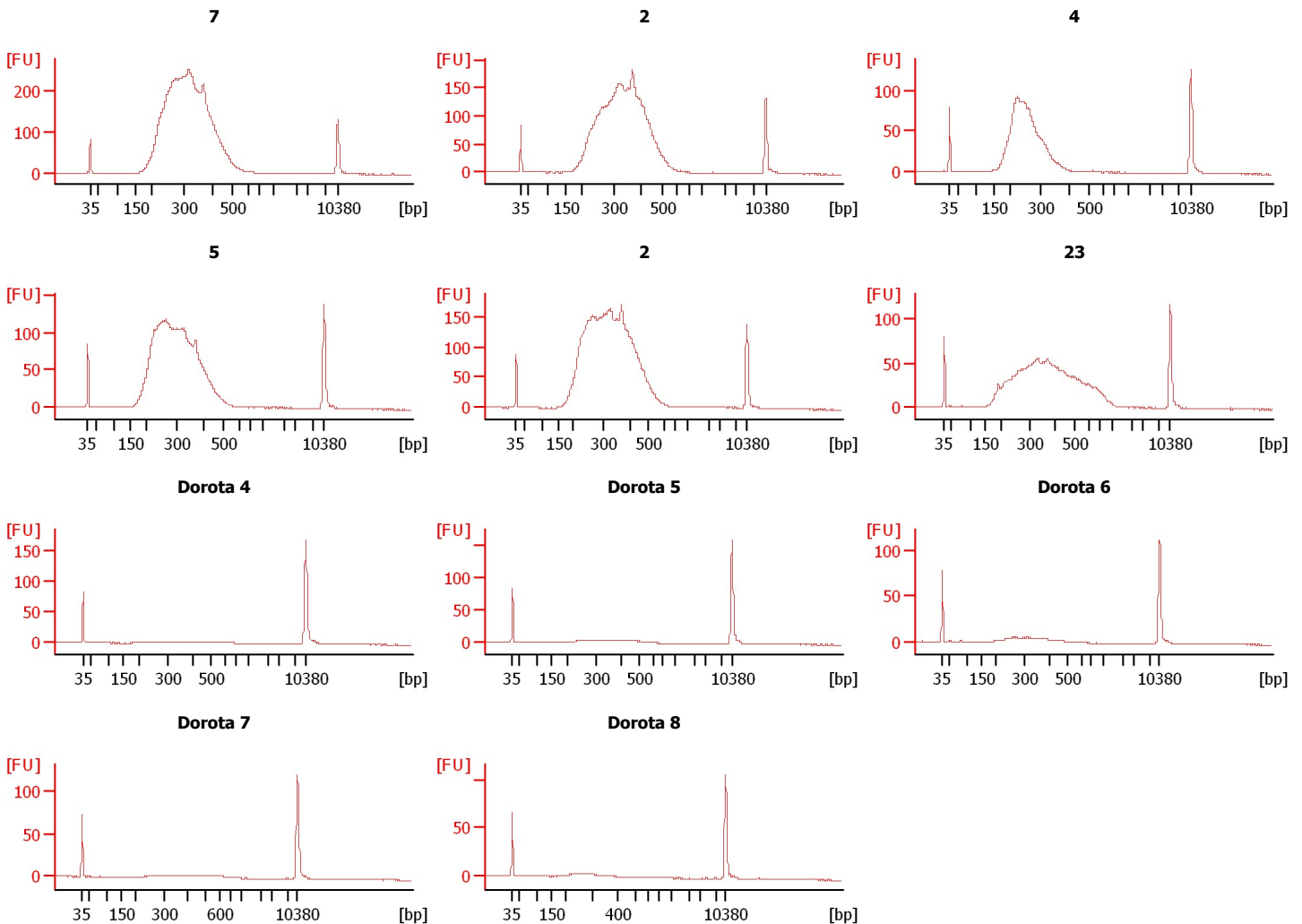
Instrument Name: DE34903152      Firmware: C.01.069  
Serial#: DE34903152      Type: G2938C

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
7		<input type="checkbox"/>	✓			
2		<input type="checkbox"/>	✓			
4		<input type="checkbox"/>	✓			
5		<input type="checkbox"/>	✓			
2		<input type="checkbox"/>	✓			
23		<input type="checkbox"/>	✓			
Dorota 4		<input type="checkbox"/>	✓			
Dorota 5		<input type="checkbox"/>	✓			
Dorota 6		<input type="checkbox"/>	✓			
Dorota 7		<input type="checkbox"/>	✓			
Dorota 8		<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

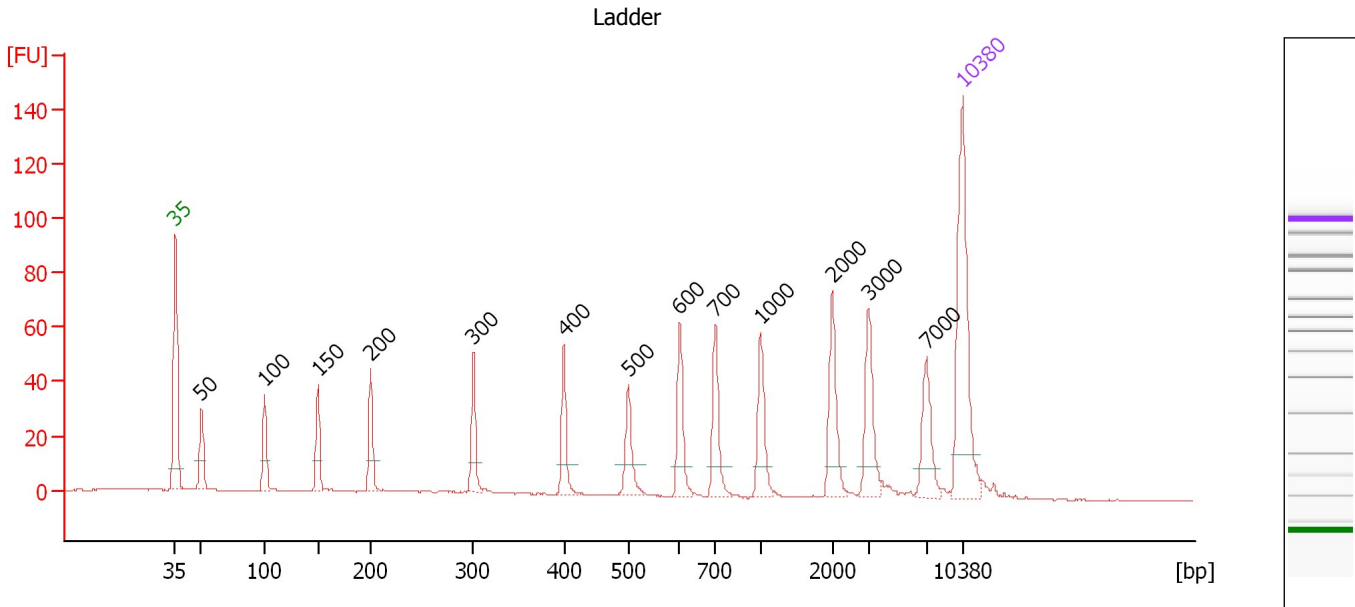
**Ladder**

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

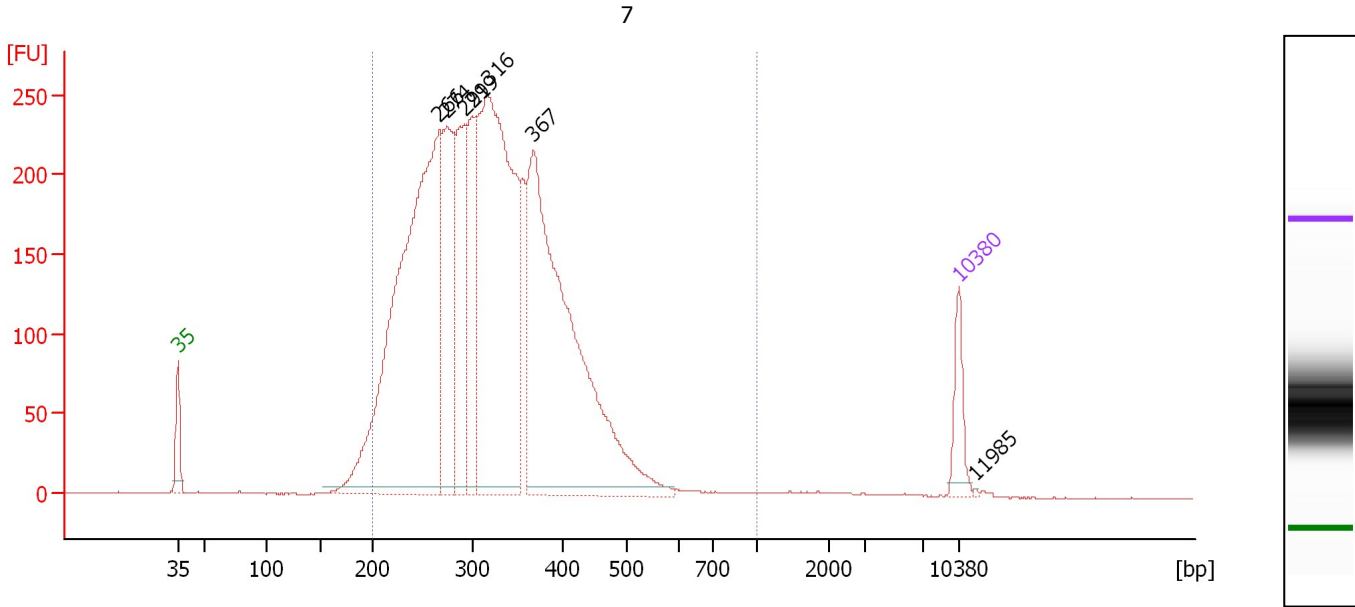
**Peak table for Ladder**

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	45.32
3	100	150.00	2,272.7	Ladder Peak	50.96
4	150	150.00	1,515.2	Ladder Peak	55.70
5	200	150.00	1,136.4	Ladder Peak	60.39
6	300	150.00	757.6	Ladder Peak	69.49
7	400	150.00	568.2	Ladder Peak	77.55
8	500	150.00	454.5	Ladder Peak	83.28
9	600	150.00	378.8	Ladder Peak	87.83
10	700	150.00	324.7	Ladder Peak	91.01
11	1,000	150.00	227.3	Ladder Peak	94.99
12	2,000	150.00	113.6	Ladder Peak	101.39
13	3,000	150.00	75.8	Ladder Peak	104.61
14	7,000	150.00	32.5	Ladder Peak	109.78
15	10,380	75.00	10.9	Upper Marker	113.00

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**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : 7**

Number of peaks found: 7                      Corr. Area 1: 5,428.8  
 Noise: 0.2

**Peak table for sample 1 : 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	266	1,792.45	10,197.3		66.43
3	274	503.83	2,783.9		67.15
4	291	393.93	2,050.9		68.68
5	299	320.18	1,623.0		69.39
6	316	1,461.46	7,007.9		70.78
7	367	1,434.15	5,920.6		74.89
8	10,380	75.00	10.9	Upper Marker	113.00
9	11,985	0.00	0.0		114.53

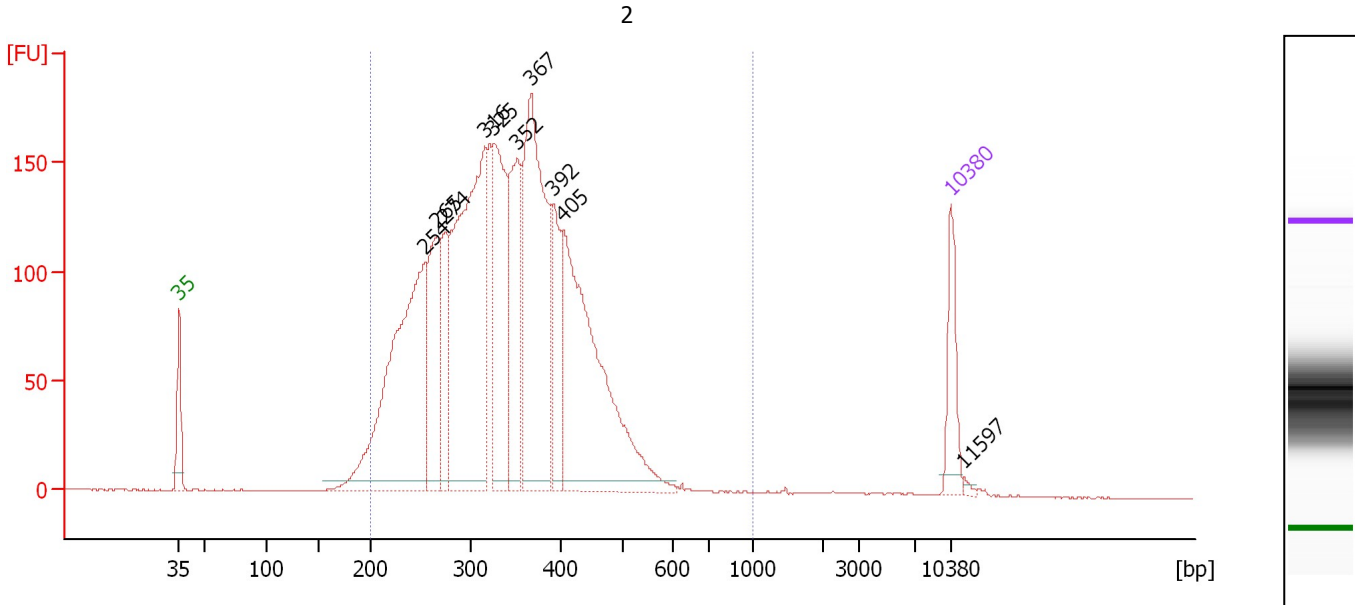
**Region table for sample 1 : 7**

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	322	5,996.86	5,428.8	30,052.0	97	23.6

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**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : 2**

Number of peaks found: 10                      Corr. Area 1: 3,655.5  
 Noise: 0.3

**Peak table for sample 2 : 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	254	724.10	4,314.3		65.33
3	265	249.29	1,422.9		66.35
4	274	163.45	902.3		67.17
5	316	763.80	3,667.1		70.75
6	325	352.67	1,643.2		71.52
7	352	258.64	1,114.6		73.65
8	367	578.23	2,386.0		74.91
9	392	156.92	605.9		76.94
10	405	621.89	2,324.7		77.85
11	10,380	75.00	10.9	Upper Marker	113.00
12	11,597	0.00	0.0		114.16

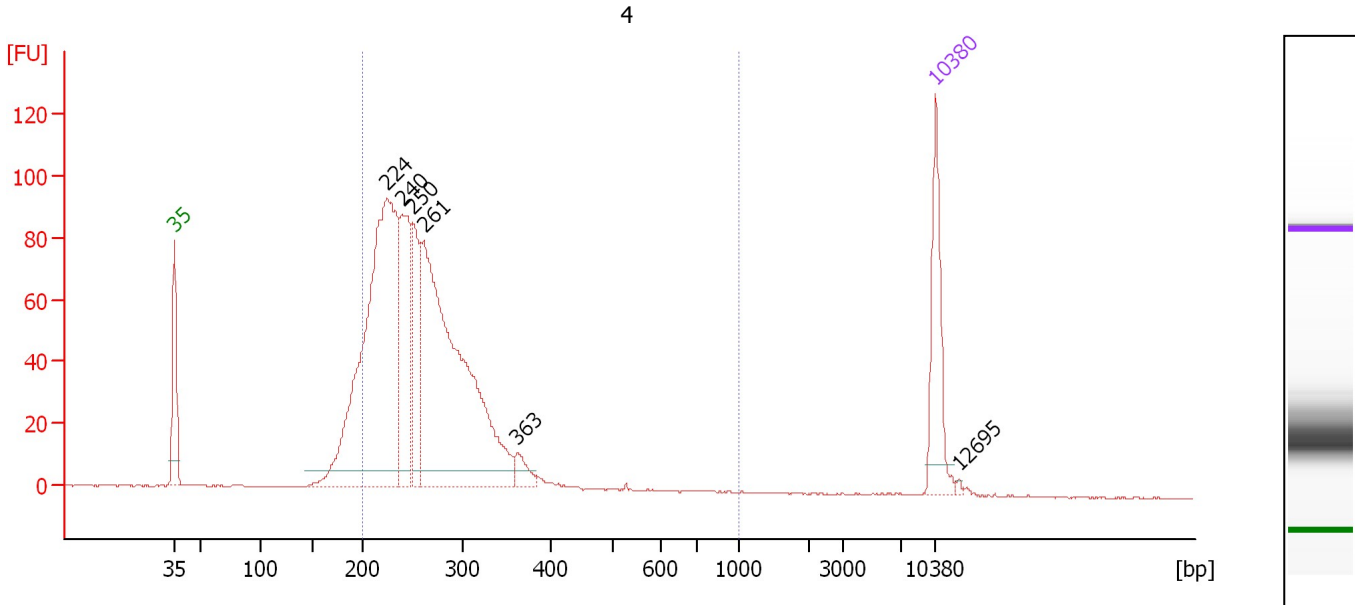
**Region table for sample 2 : 2**

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	341	4,057.22	3,655.5	19,338.5	97	23.6

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**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : 4**

Number of peaks found: 6                      Corr. Area 1: 1,263.8  
 Noise: 0.2

**Peak table for sample 3 : 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	224	659.48	4,461.8		62.57
3	240	183.47	1,160.3		64.00
4	250	110.15	668.1		64.93
5	261	593.31	3,442.4		65.96
6	363	20.75	86.5		74.59
7	10,380	75.00	10.9	Upper Marker	113.00
8	12,695	0.00	0.0		115.21

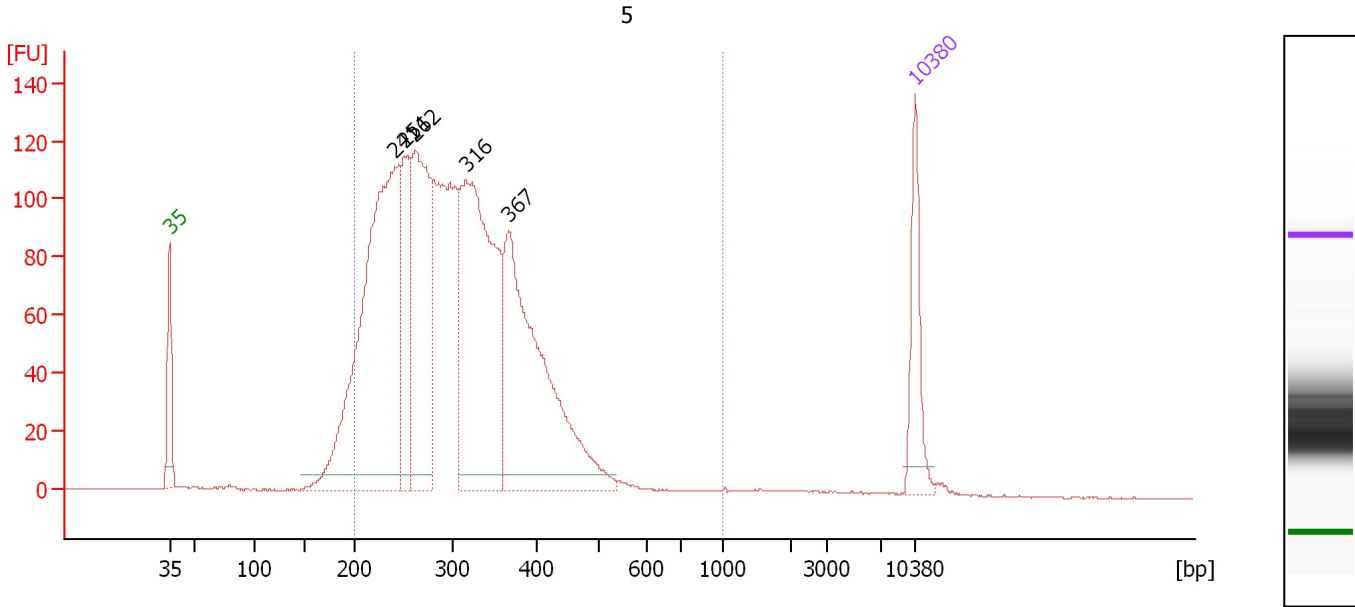
**Region table for sample 3 : 4**

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	266	1,442.00	1,263.8	8,493.5	89	21.6

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**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : 5**

Number of peaks found: 5                      Corr. Area 1: 2,641.1  
 Noise: 0.3

**Peak table for sample 4 : 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	241	806.09	5,058.4		64.17
3	251	174.76	1,055.8		65.02
4	262	373.04	2,159.0		66.02
5	316	564.17	2,701.0		70.82
6	367	490.66	2,026.9		74.87
7	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 4 : 5**

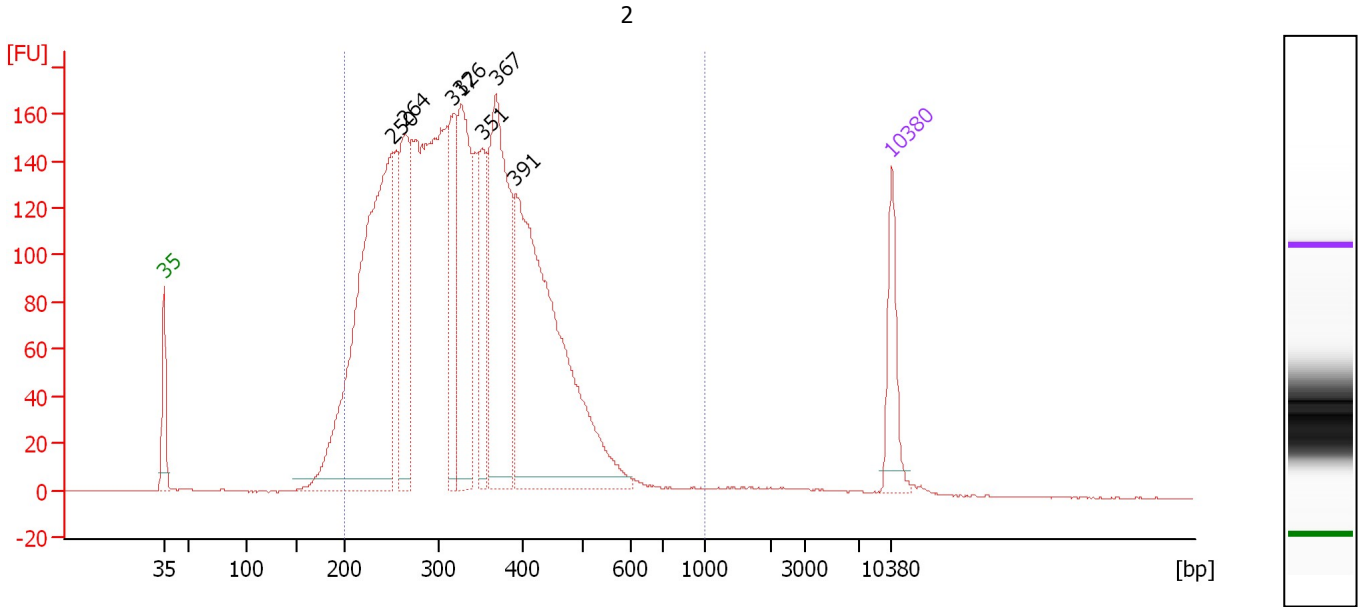
From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	310	2,717.49	2,641.1	14,213.4	94	25.2



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**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : 2**

Number of peaks found: 7                      Corr. Area 1: 4,128.5  
 Noise: 0.3

**Peak table for sample 5 : 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	250	913.84	5,537.1		64.95
3	264	263.31	1,513.6		66.18
4	317	201.14	962.0		70.85
5	326	311.17	1,444.7		71.62
6	351	150.53	650.7		73.56
7	367	437.98	1,807.8		74.90
8	391	733.30	2,844.3		76.79
9	10,380	75.00	10.9	Upper Marker	113.00

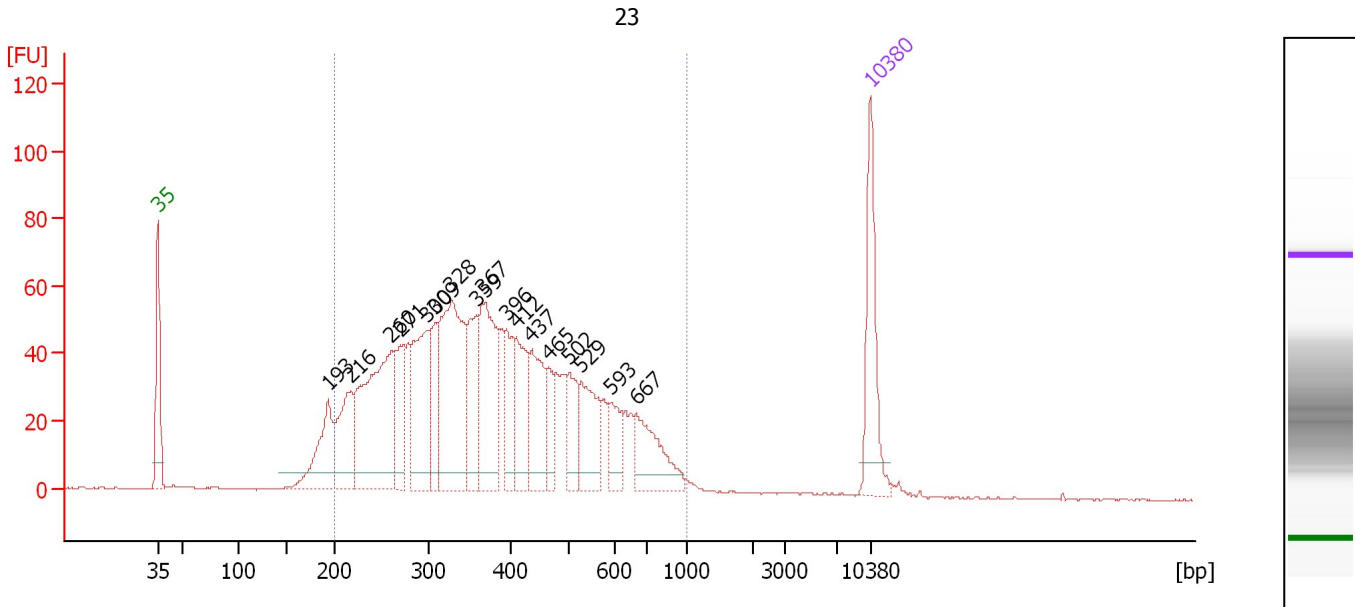
**Region table for sample 5 : 2**

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	335	3,999.78	4,128.5	19,683.2	96	26.5

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**Overall Results for sample 6 : 23**

Number of peaks found: 17                      Corr. Area 1: 1,666.0  
 Noise: 0.2

**Peak table for sample 6 : 23**

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	193	98.72	775.9		59.71
3	216	97.83	685.8		61.86
4	260	241.20	1,403.0		65.90
5	271	77.50	433.6		66.84
6	300	144.31	729.7		69.46
7	309	53.18	261.0		70.19
8	328	224.69	1,037.3		71.76
9	359	75.63	318.8		74.28
10	367	147.46	609.5		74.86
11	396	56.75	216.9		77.27
12	412	77.61	285.8		78.21
13	437	79.67	276.2		79.68
14	465	34.54	112.4		81.30
15	502	45.95	138.5		83.40
16	529	72.58	207.9		84.60
17	593	38.12	97.3		87.54
18	667	70.48	160.2		89.95
19	10,380	75.00	10.9	Upper Marker	113.00

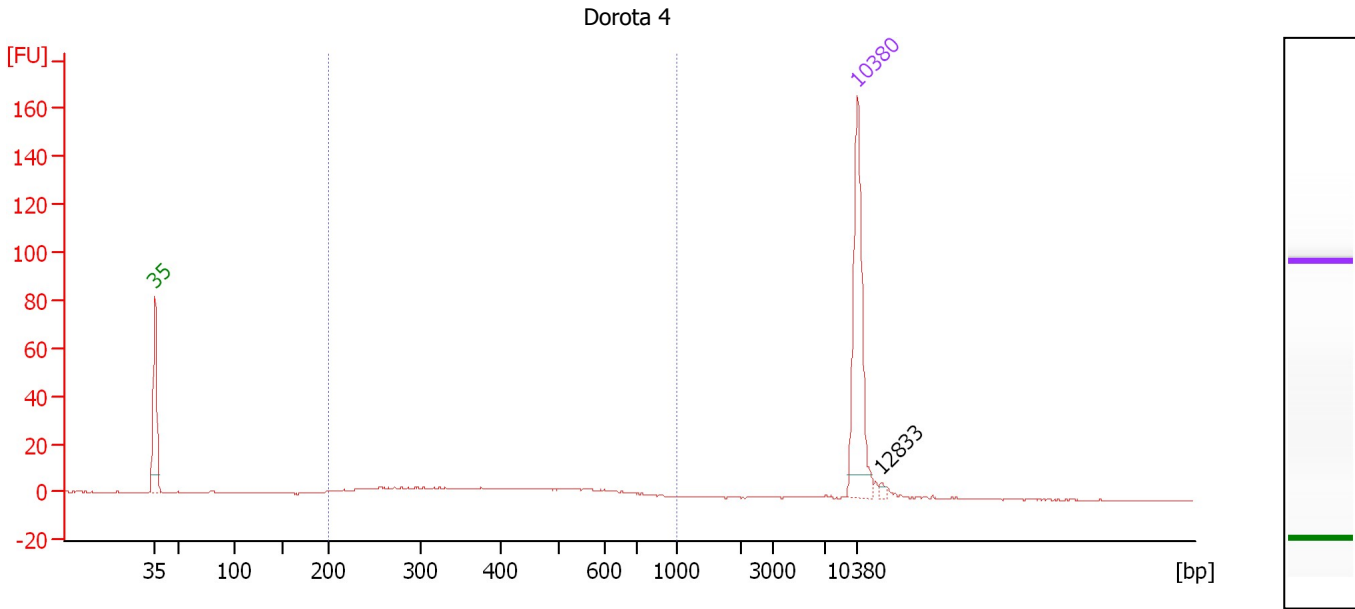
**Region table for sample 6 : 23**

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	400	1,777.52	1,666.0	7,892.0	93	35.9

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**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : Dorota 4**

Number of peaks found: 1                      Corr. Area 1: 102.8  
 Noise: 0.2

**Peak table for sample 7 : Dorota 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	10,380	75.00	10.9	Upper Marker	113.00
3	12,833	0.00	0.0		115.34

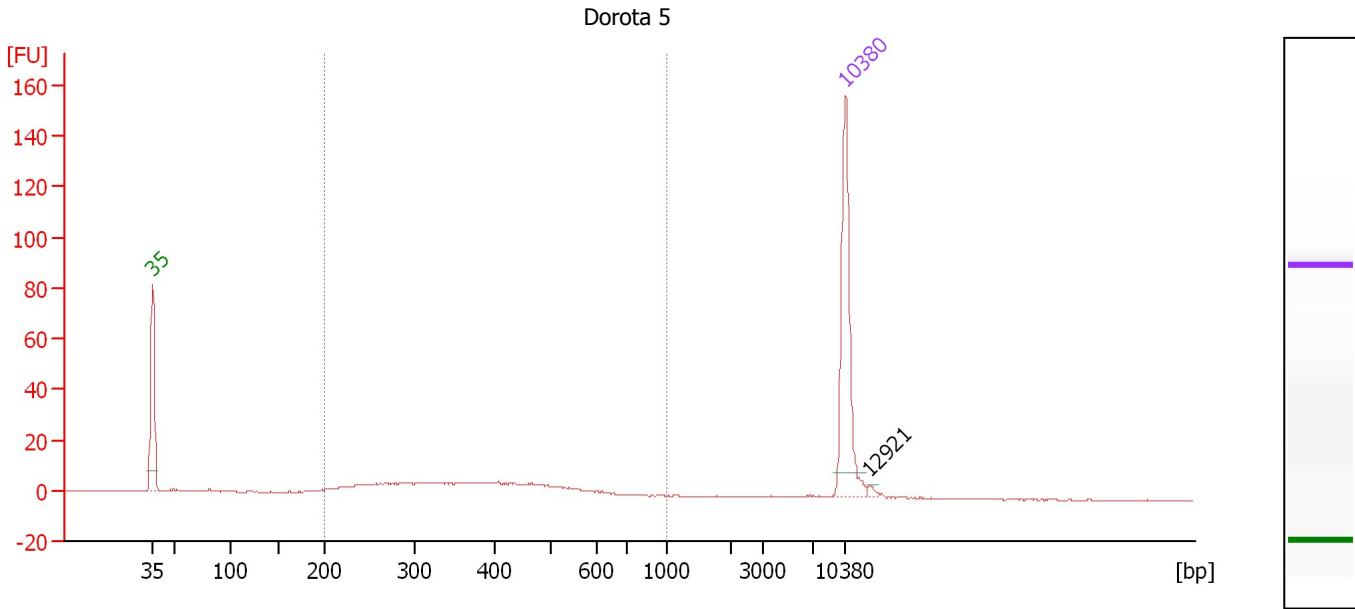
**Region table for sample 7 : Dorota 4**

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	410	76.61	102.8	332.2	84	33.7

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**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : Dorota 5**

Number of peaks found: 1                      Corr. Area 1: 141.6  
 Noise: 0.1

**Peak table for sample 8 : Dorota 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	10,380	75.00	10.9	Upper Marker	113.00
3	12,921	0.00	0.0		115.42

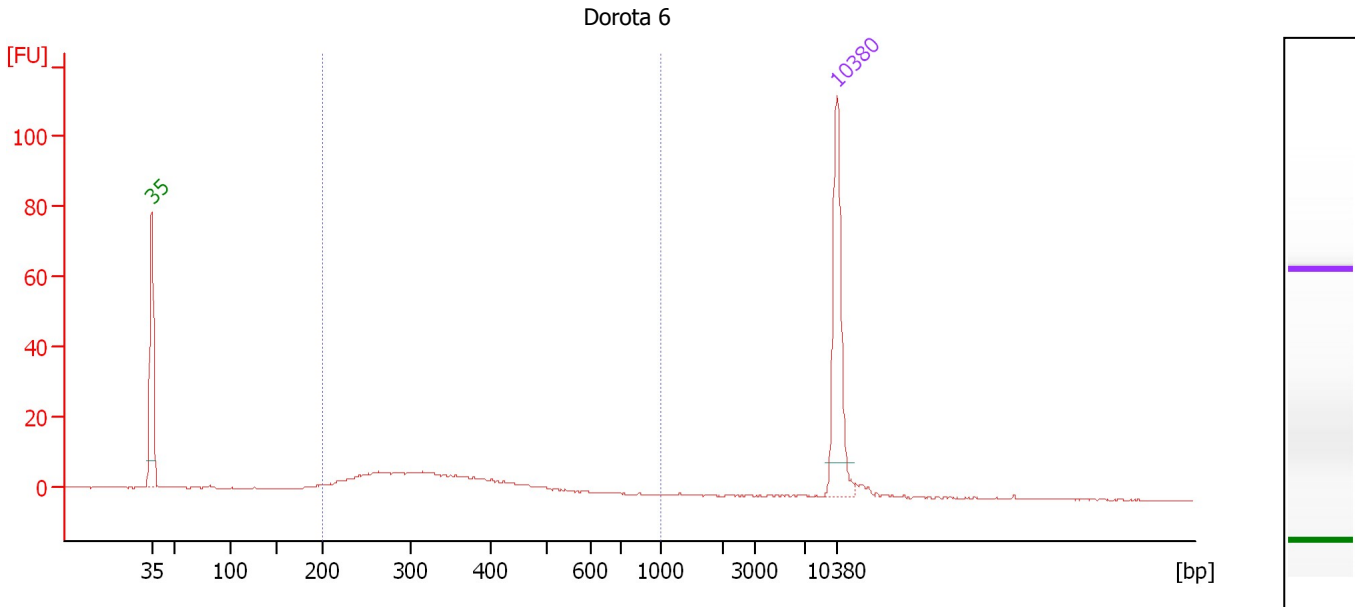
**Region table for sample 8 : Dorota 5**

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	382	117.23	141.6	526.0	84	30.5

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**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : Dorota 6**

Number of peaks found: 0                      Corr. Area 1: 125.2  
 Noise: 0.2

**Peak table for sample 9 : Dorota 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	10,380	75.00	10.9	Upper Marker	113.00

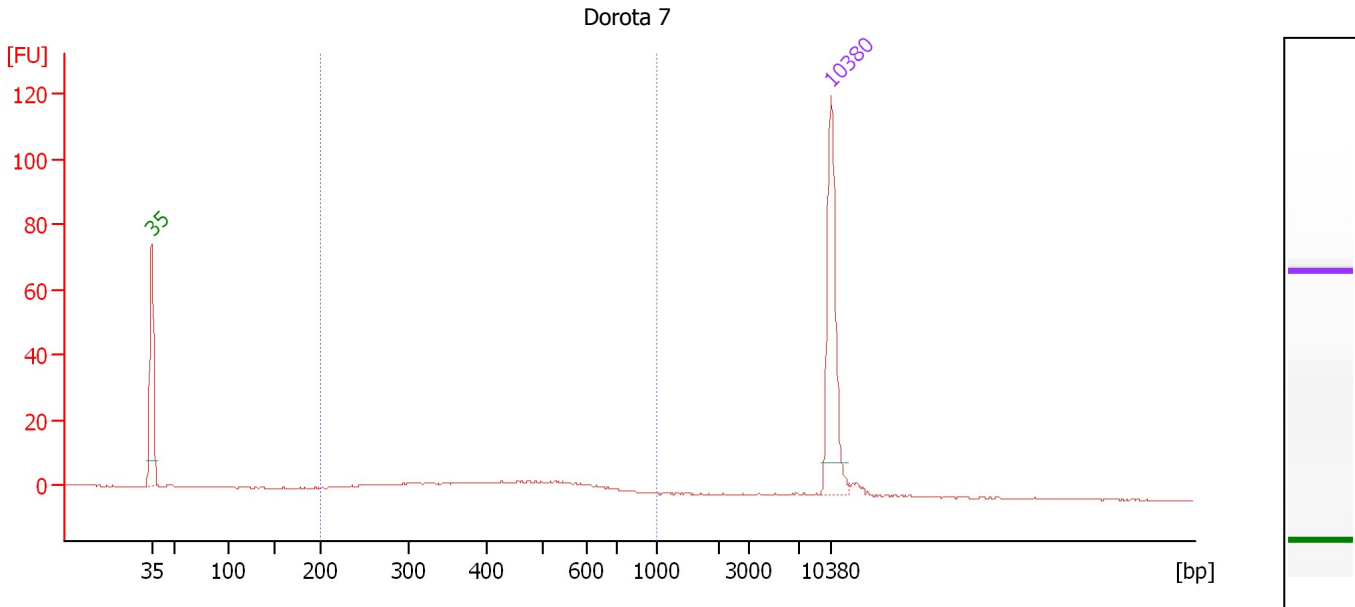
**Region table for sample 9 : Dorota 6**

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	334	146.04	125.2	716.8	87	25.3

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**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : Dorota 7**

Number of peaks found: 0                      Corr. Area 1: 81.4  
 Noise: 0.2

**Peak table for sample 10 : Dorota 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	10,380	75.00	10.9	Upper Marker	113.00

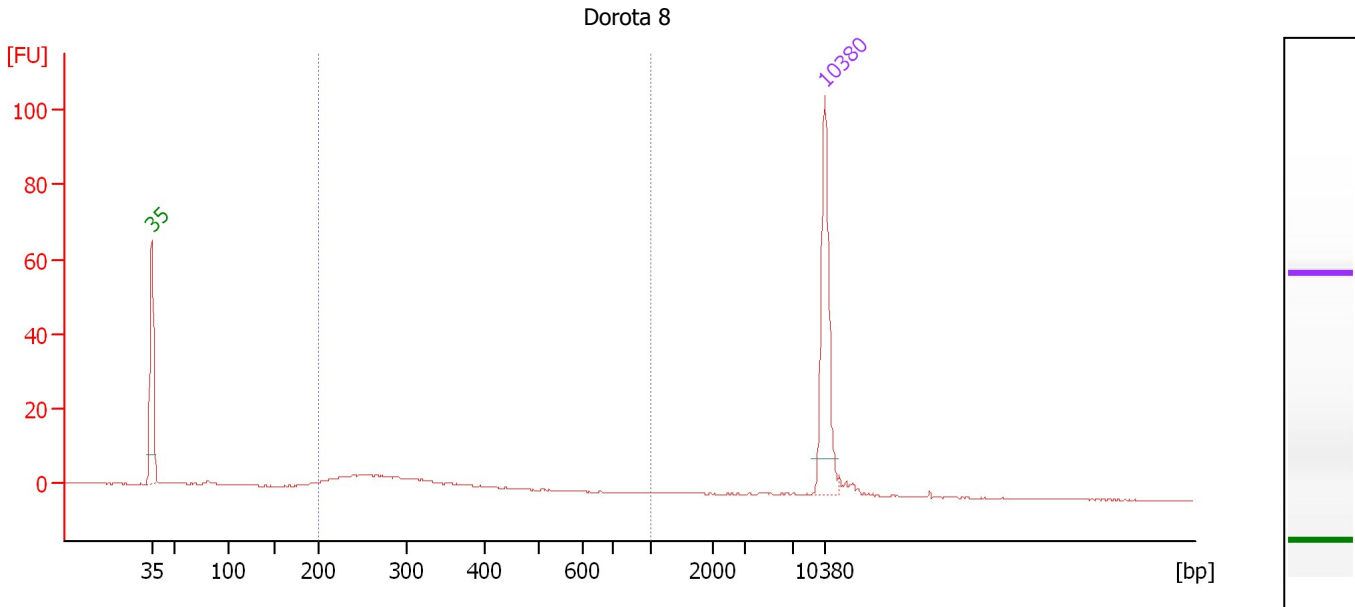
**Region table for sample 10 : Dorota 7**

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	437	80.80	81.4	320.9	87	29.9

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**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : Dorota 8**

Number of peaks found: 0                      Corr. Area 1: 59.4  
 Noise: 0.1

**Peak table for sample 11 : Dorota 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	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 11 : Dorota 8**

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	293	81.70	59.4	443.8	76	21.0

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**Gel Image**