

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-09-10\2015-09-10_004.xad

Created: 9/10/2015 3:23:43 PM
Modified: 9/10/2015 4:04:10 PM

Electrophoresis File Run Summary

Instrument Information:

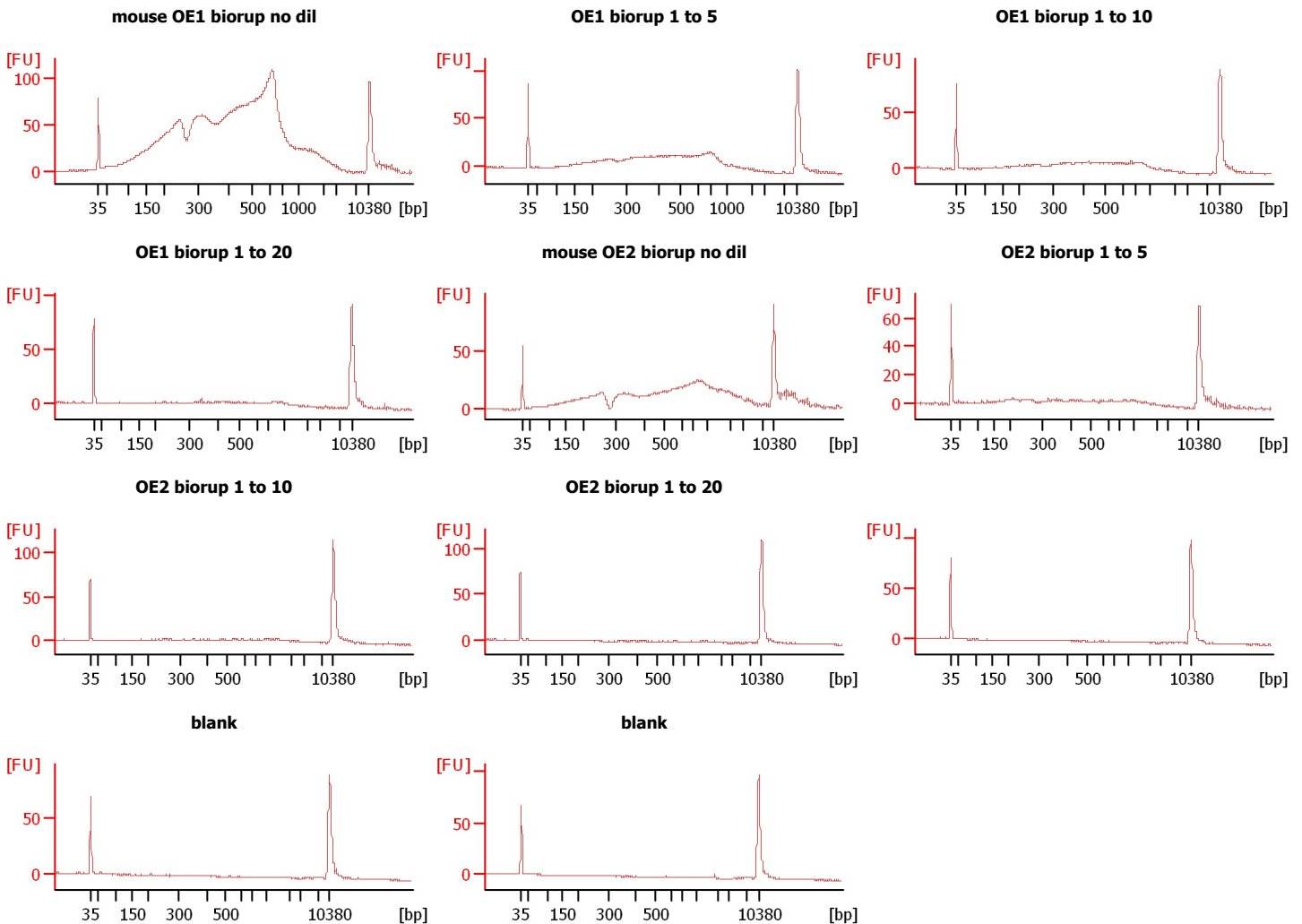
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:



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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
mouse OE1 biorup no dil		<input type="checkbox"/>	✓			
OE1 biorup 1 to 5		<input type="checkbox"/>	✓			
OE1 biorup 1 to 10		<input type="checkbox"/>	✓			
OE1 biorup 1 to 20		<input type="checkbox"/>	✓			
mouse OE2 biorup no dil		<input type="checkbox"/>	✓			
OE2 biorup 1 to 5		<input type="checkbox"/>	✓			
OE2 biorup 1 to 10		<input type="checkbox"/>	✓			
OE2 biorup 1 to 20		<input type="checkbox"/>	✓			
blank		<input type="checkbox"/>	✓			
blank		<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

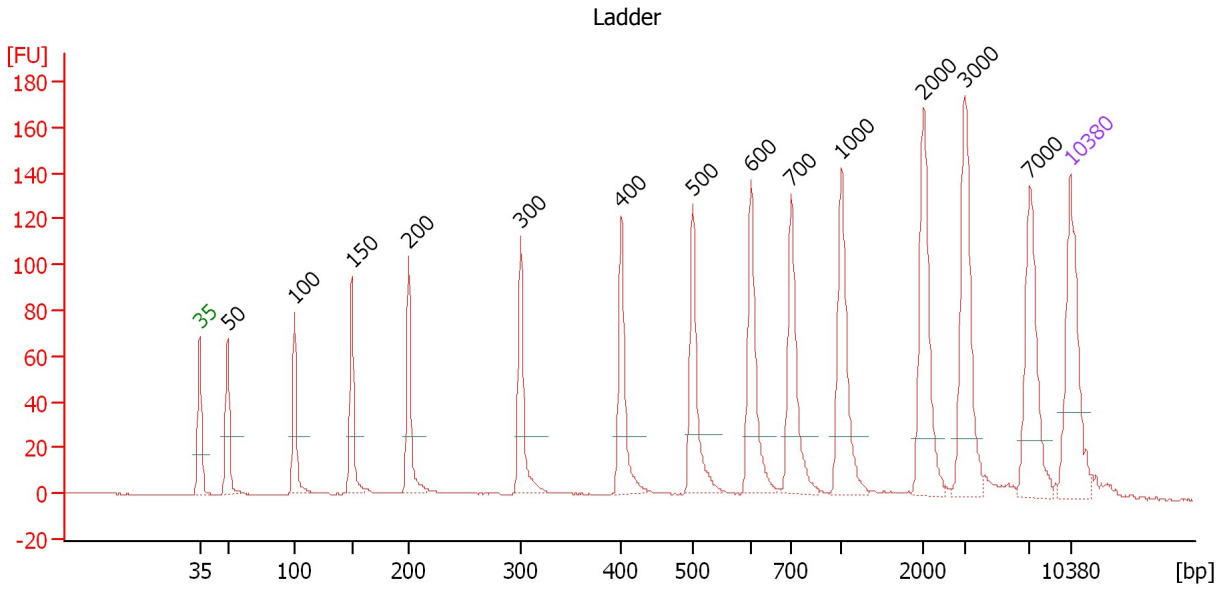
Ladder

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

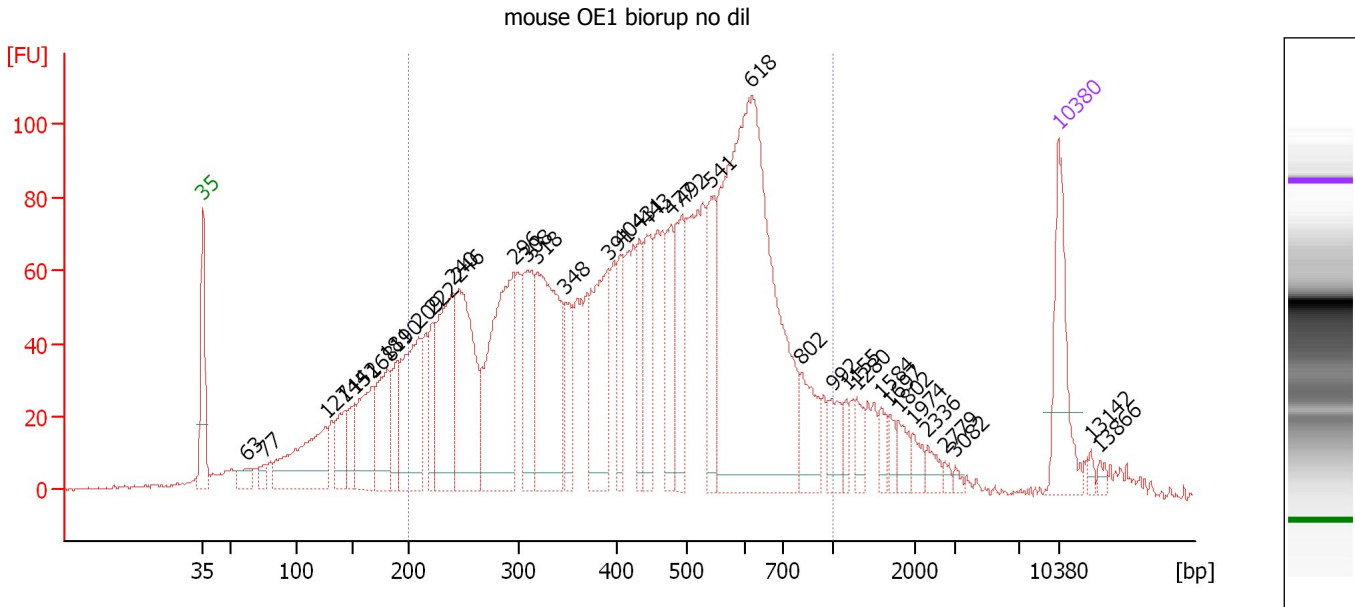
Peak table for Ladder

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	45.23
3	100	150.00	2,272.7	Ladder Peak	50.63
4	150	150.00	1,515.2	Ladder Peak	55.22
5	200	150.00	1,136.4	Ladder Peak	59.80
6	300	150.00	757.6	Ladder Peak	68.81
7	400	150.00	568.2	Ladder Peak	76.91
8	500	150.00	454.5	Ladder Peak	82.65
9	600	150.00	378.8	Ladder Peak	87.32
10	700	150.00	324.7	Ladder Peak	90.54
11	1,000	150.00	227.3	Ladder Peak	94.61
12	2,000	150.00	113.6	Ladder Peak	101.21
13	3,000	150.00	75.8	Ladder Peak	104.47
14	7,000	150.00	32.5	Ladder Peak	109.74
15	10,380	75.00	10.9	Upper Marker	113.00

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Electropherogram Summary Continued ...



Overall Results for sample 1 : mouse OE1 biorup no dil

Number of peaks found: 37 Corr. Area 1: 2,836.3
 Noise: 0.6

Peak table for sample 1 : mouse OE1 biorup no dil

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	63	25.18	606.6		46.62
3	77	14.41	284.9		48.11
4	127	162.37	1,941.4		53.08
5	144	59.95	631.4		54.65
6	152	39.30	391.9		55.39
7	168	106.51	960.0		56.88
8	181	100.47	841.2		58.06
9	190	59.13	471.5		58.89
10	209	165.34	1,197.6		60.63
11	222	57.64	393.7		61.77
12	240	175.64	1,107.8		63.42
13	246	204.35	1,258.4		63.95
14	296	254.75	1,304.1		68.44
15	308	109.22	536.5		69.49
16	318	230.19	1,096.3		70.28
17	348	58.97	256.9		72.68
18	391	144.95	561.9		76.17
19	404	53.04	199.0		77.13
20	431	55.13	193.7		78.70
21	443	77.14	264.1		79.35
22	477	68.99	219.3		81.32
23	492	92.15	283.8		82.19
24	541	84.02	235.1		84.59
25	618	593.27	1,454.2		87.91

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Electropherogram Summary Continued ...

... Peak table for sample 1 : mouse OE1 biorup no dil

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	802	56.70	107.1		91.92
27	992	30.13	46.0		94.50
28	1,155	13.41	17.6		95.63
29	1,280	19.85	23.5		96.46
30	1,584	15.23	14.6		98.47
31	1,697	11.30	10.1		99.21
32	1,802	17.49	14.7		99.91
33	1,974	12.83	9.8		101.04
34	2,336	11.61	7.5		102.31
35	2,779	4.66	2.5		103.75
36	3,082	4.08	2.0		104.58
37	10,380	75.00	10.9	Upper Marker	113.00
38	13,142	0.00	0.0		115.66
39	13,866	0.00	0.0		116.36

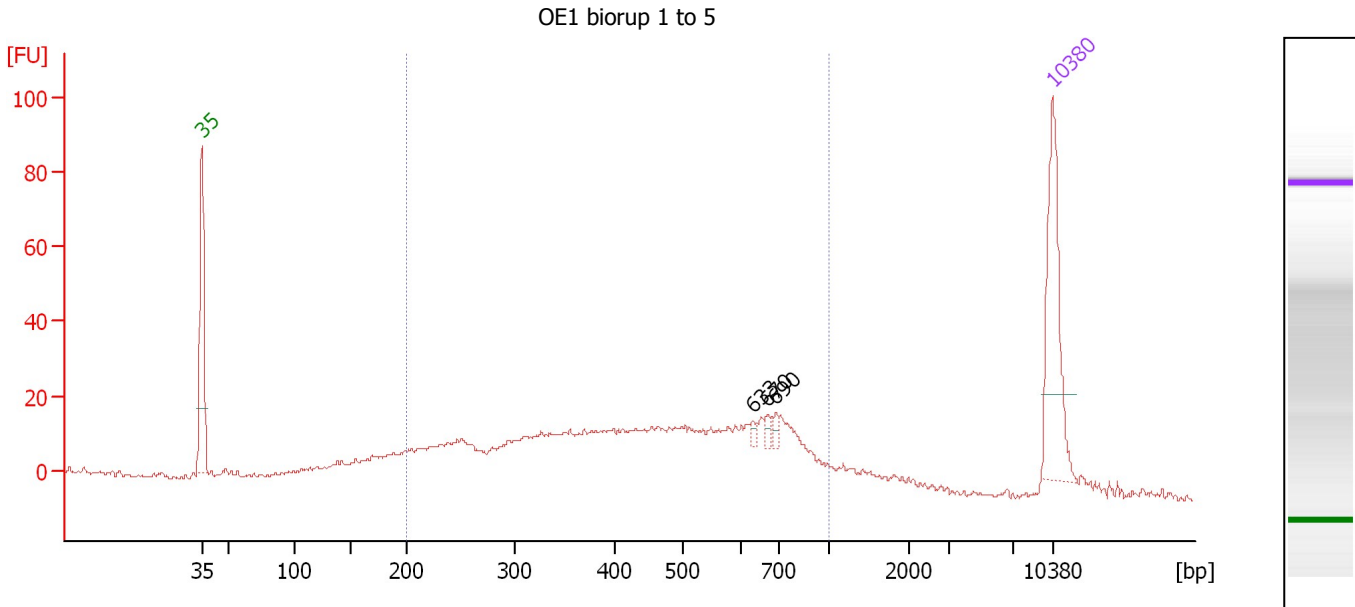
Region table for sample 1 : mouse OE1 biorup no dil

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
200	454	1,000	2,836.3	12,914.3	78	36.4	3,154.78

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Electropherogram Summary Continued ...



Overall Results for sample 2 : OE1 biorup 1 to 5

Number of peaks found: 3 Corr. Area 1: 603.4
 Noise: 0.5

Peak table for sample 2 : OE1 biorup 1 to 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	633	4.04	9.7		88.38
3	670	5.29	12.0		89.56
4	690	5.68	12.5		90.22
5	10,380	75.00	10.9	Upper Marker	113.00

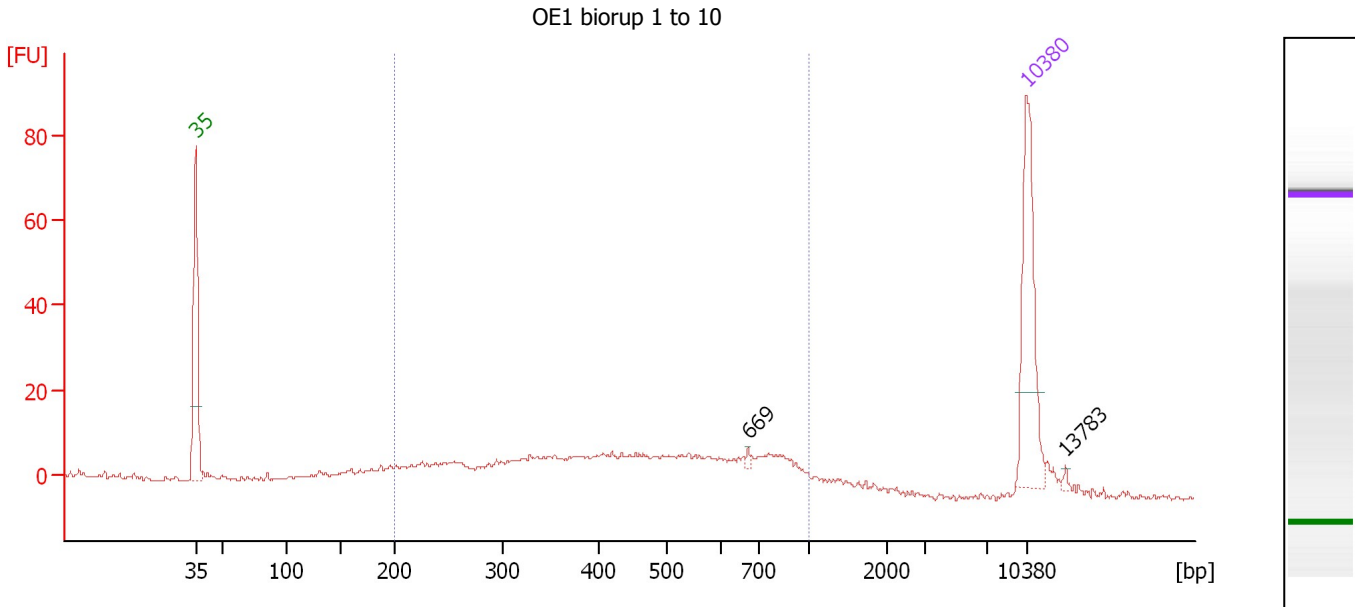
Region table for sample 2 : OE1 biorup 1 to 5

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
200	471	1,000	603.4	2,511.8	83	37.9	628.62

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Electropherogram Summary Continued ...



Overall Results for sample 3 : OE1 biorup 1 to 10

Number of peaks found: 2 Corr. Area 1: 300.4
 Noise: 0.4

Peak table for sample 3 : OE1 biorup 1 to 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	669	2.40	5.4		89.55
3	10,380	75.00	10.9	Upper Marker	113.00
4	13,783	0.00	0.0		116.28

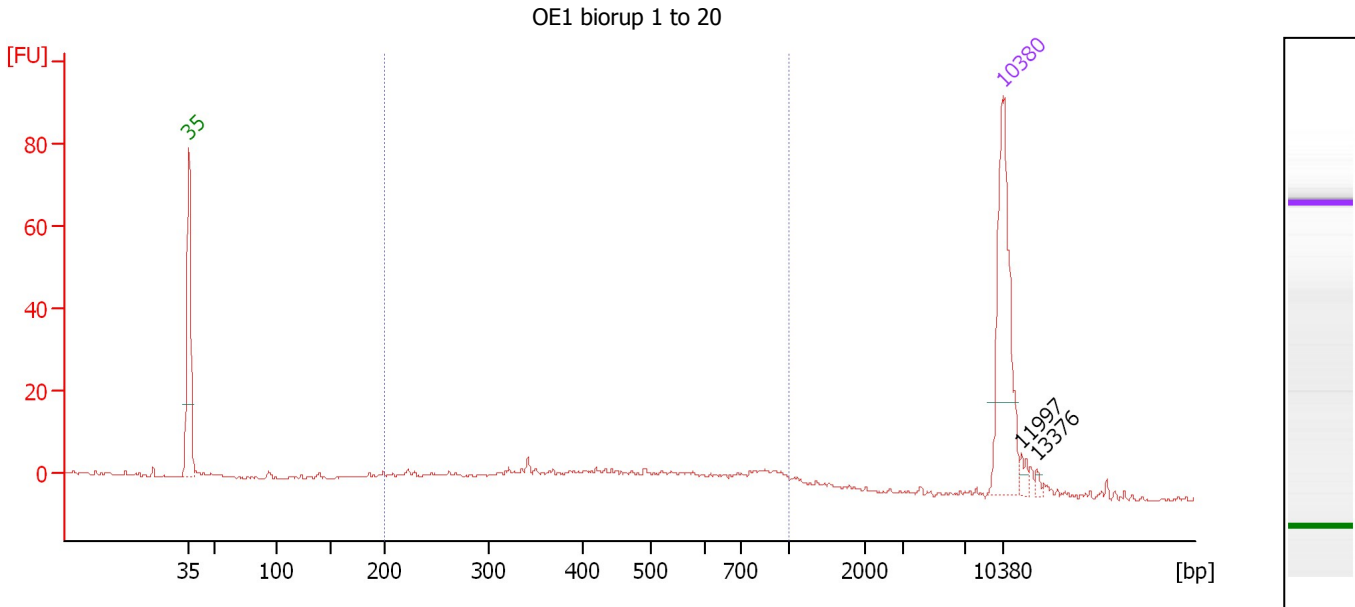
Region table for sample 3 : OE1 biorup 1 to 10

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
200	479	1,000	300.4	1,352.7	79	39.2	341.31

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Electropherogram Summary Continued ...



Overall Results for sample 4 : OE1 biorup 1 to 20

Number of peaks found: 2 Corr. Area 1: 117.2
 Noise: 0.3

Peak table for sample 4 : OE1 biorup 1 to 20

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	11,997	0.00	0.0		114.56
4	13,376	0.00	0.0		115.89

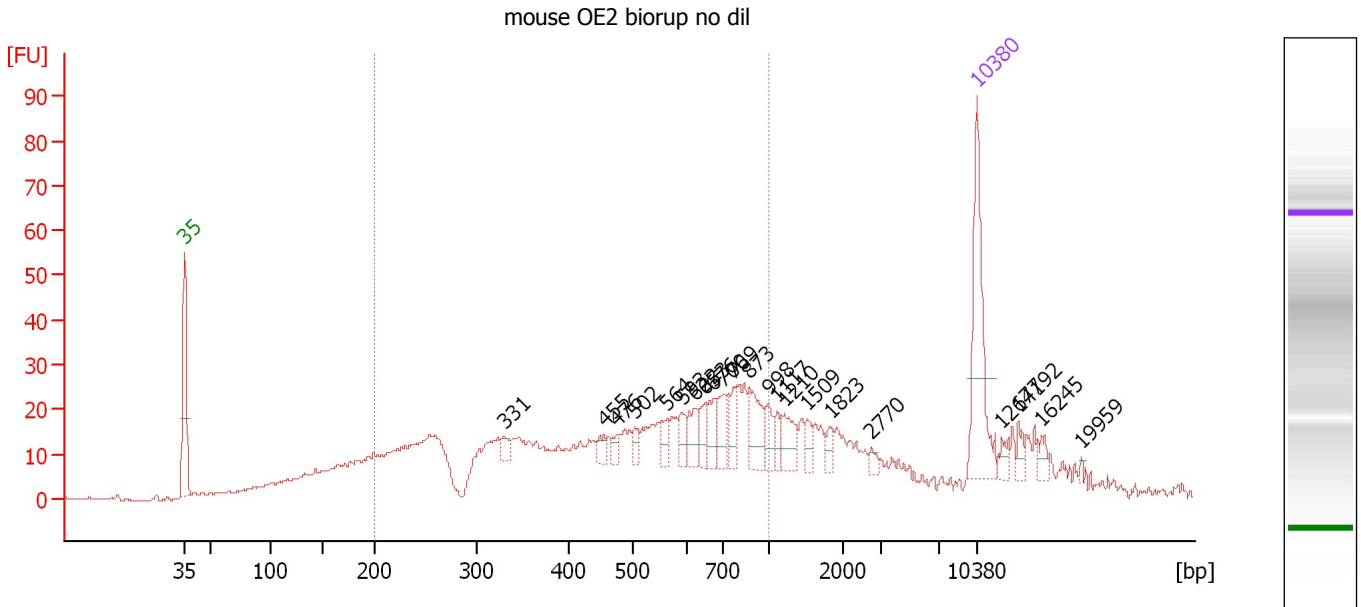
Region table for sample 4 : OE1 biorup 1 to 20

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
200	510	1,000	117.2	434.3	78	38.9	116.85

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Electropherogram Summary Continued ...



Overall Results for sample 5 : mouse OE2 biorup no dil

Number of peaks found: 22 Corr. Area 1: 654.8
 Noise: 0.2

Peak table for sample 5 : mouse OE2 biorup no dil


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	331	9.04	41.4		71.31
3	455	8.70	28.9		80.07
4	476	8.15	26.0		81.25
5	502	8.88	26.8		82.76
6	564	11.17	30.0		85.63
7	593	13.13	33.5		87.00
8	622	21.16	51.5		88.03
9	653	13.37	31.0		89.02
10	676	21.14	47.4		89.78
11	700	20.40	44.2		90.53
12	769	16.29	32.1		91.47
13	873	33.16	57.6		92.89
14	998	15.42	23.4		94.58
15	1,117	10.52	14.3		95.38
16	1,210	20.59	25.8		95.99
17	1,509	8.78	8.8		97.97
18	1,823	7.66	6.4		100.05
19	2,770	4.95	2.7		103.72
20	10,380	75.00	10.9	Upper Marker	113.00
21	12,677	0.00	0.0		115.21
22	14,192	0.00	0.0		116.67
23	16,245	0.00	0.0		118.65
24	19,959	0.00	0.0		122.23

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Electropherogram Summary Continued ...

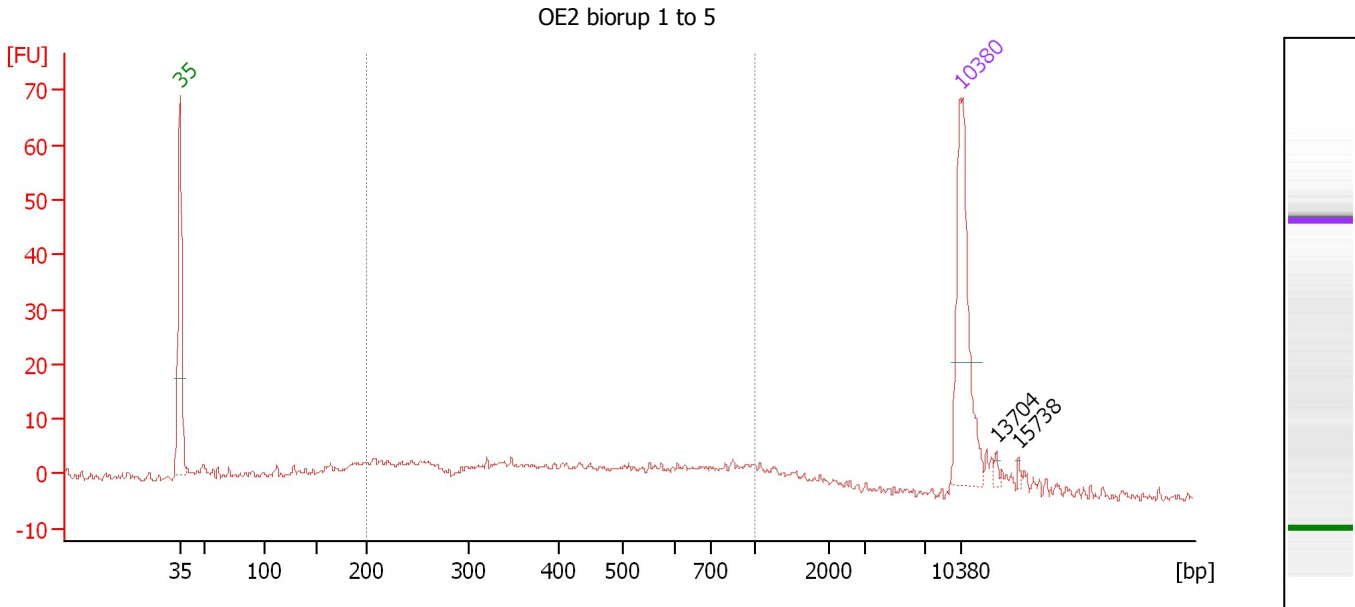
... Region table for sample 5 : mouse OE2 biorup no dil

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/ μ l]
200	513	1,000	654.8	3,810.5	 62	40.9	981.72

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Electropherogram Summary Continued ...



Overall Results for sample 6 : OE2 biorup 1 to 5

Number of peaks found: 2 Corr. Area 1: 159.3
 Noise: 0.6

Peak table for sample 6 : OE2 biorup 1 to 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	13,704	0.00	0.0		116.20
4	15,738	0.00	0.0		118.16

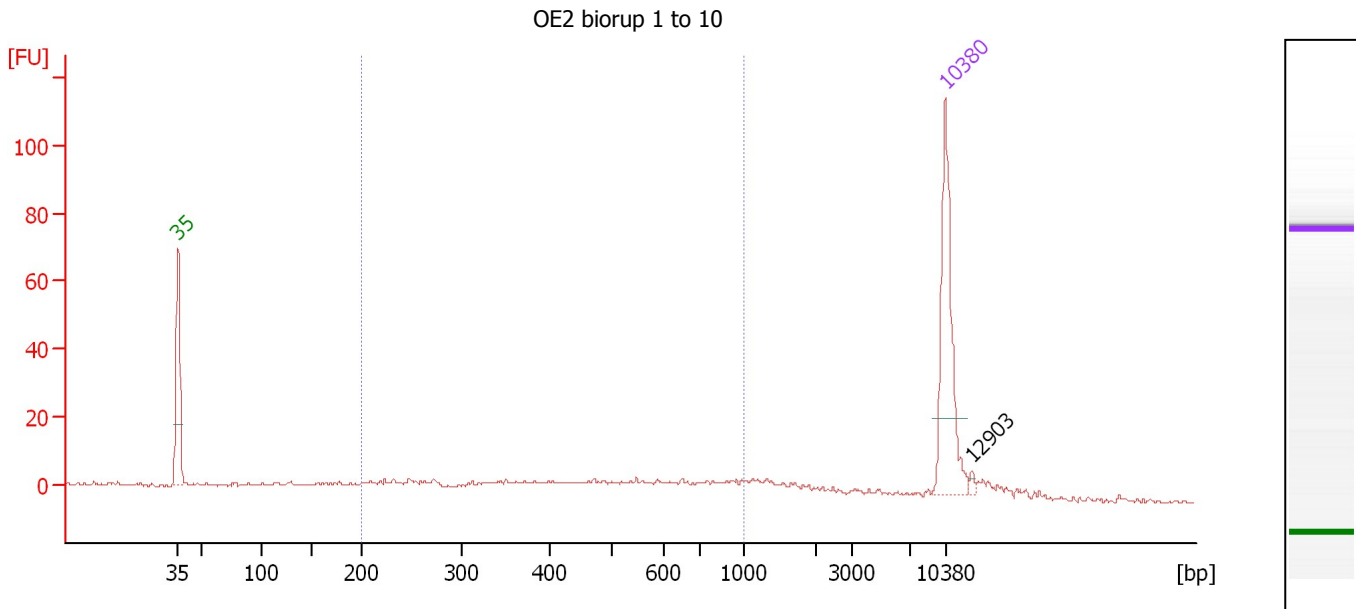
Region table for sample 6 : OE2 biorup 1 to 5

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
200	461	1,000	159.3	943.2	62	43.7	221.05

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Electropherogram Summary Continued ...



Overall Results for sample 7 : OE2 biorup 1 to 10

Number of peaks found: 1 Corr. Area 1: 130.6
 Noise: 0.4

Peak table for sample 7 : OE2 biorup 1 to 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
3	12,903	0.00	0.0		115.43

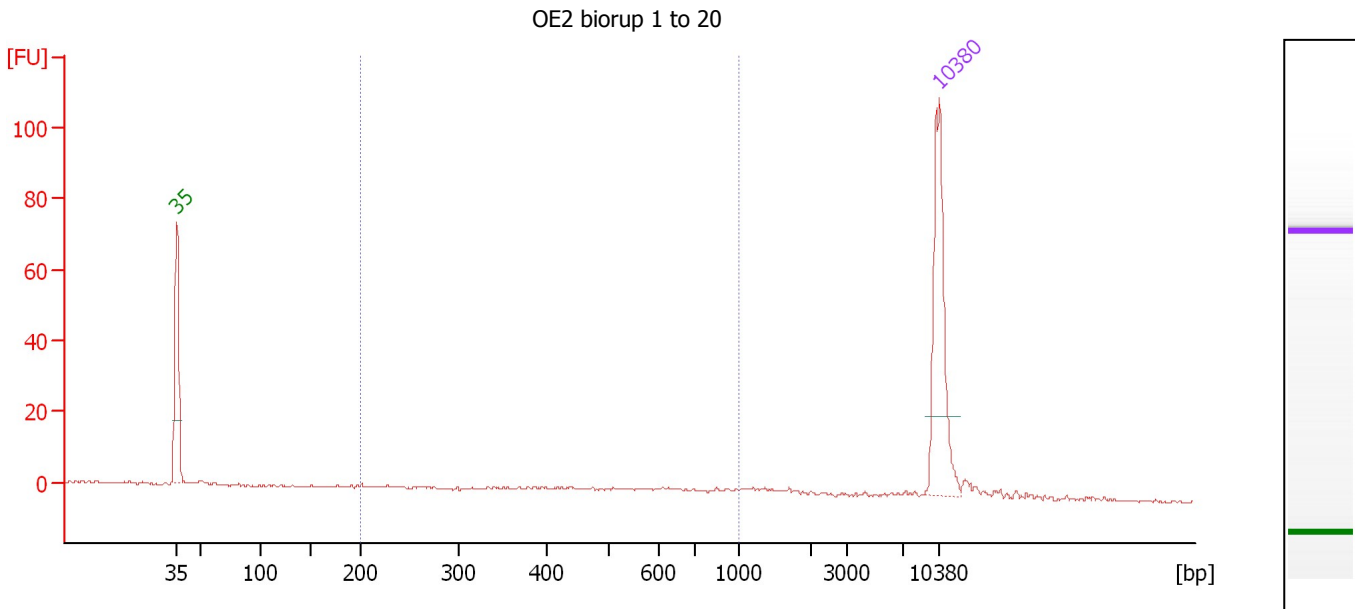
Region table for sample 7 : OE2 biorup 1 to 10

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
200	495	1,000	130.6	486.7	56	41.0	123.50

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Electropherogram Summary Continued ...



Overall Results for sample 8 : OE2 biorup 1 to 20

Number of peaks found: 0 Corr. Area 1: 35.2
 Noise: 0.2

Peak table for sample 8 : OE2 biorup 1 to 20

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

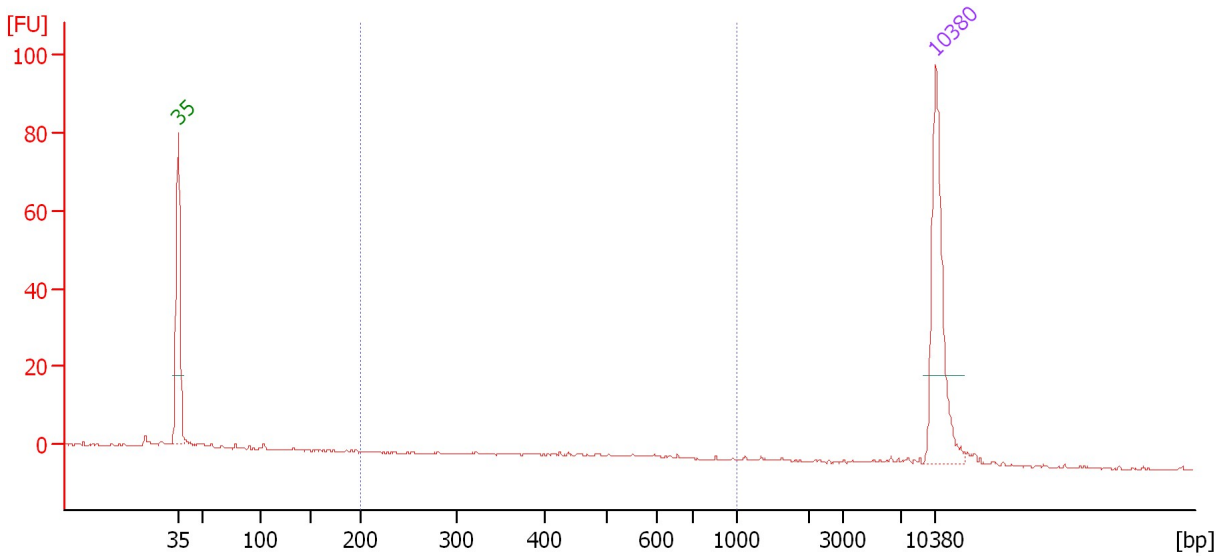
Region table for sample 8 : OE2 biorup 1 to 20

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
200	526	1,000	35.2	119.3	42	37.5	32.88

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Electropherogram Summary Continued ...



Overall Results for sample 9 :

Number of peaks found: 0 Corr. Area 1: 5.0
 Noise: 0.2

Peak table for 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	10,380	75.00	10.9	Upper Marker	113.00

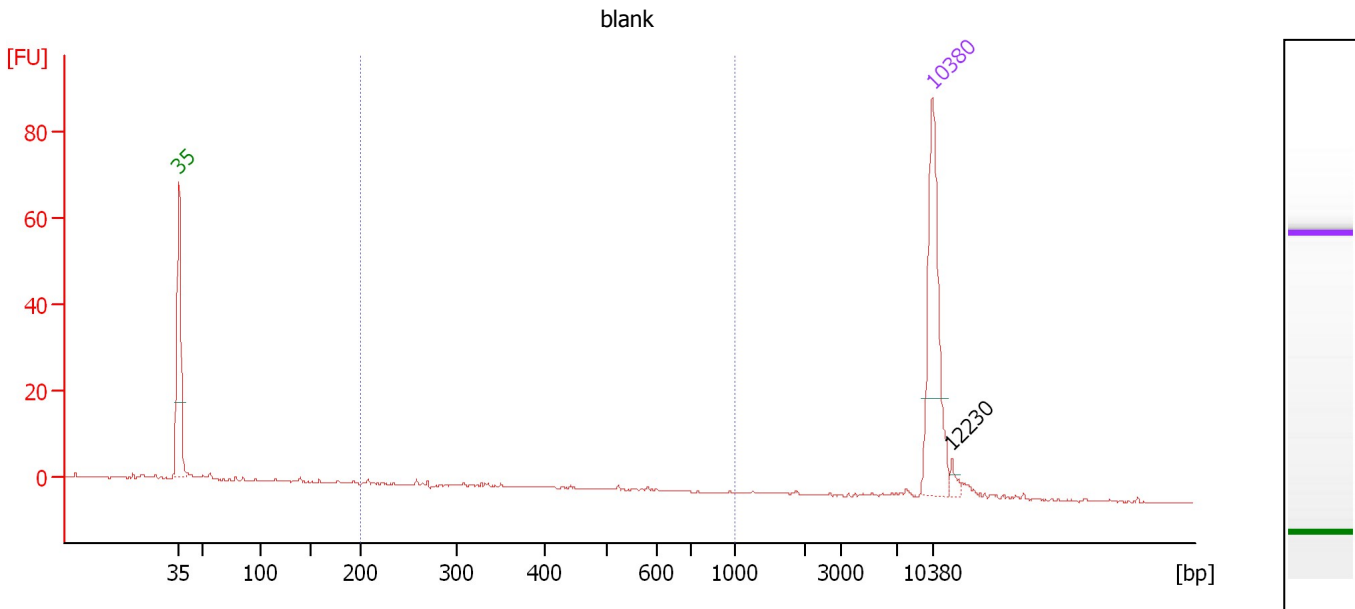
Region table for sample 9 :

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
200	522	1,000	5.0	15.2	16	22.5	4.88

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Electropherogram Summary Continued ...



Overall Results for sample 10 : blank

Number of peaks found: 1 Corr. Area 1: 2.0
 Noise: 0.1

Peak table for sample 10 : blank

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	12,230	0.00	0.0		114.78

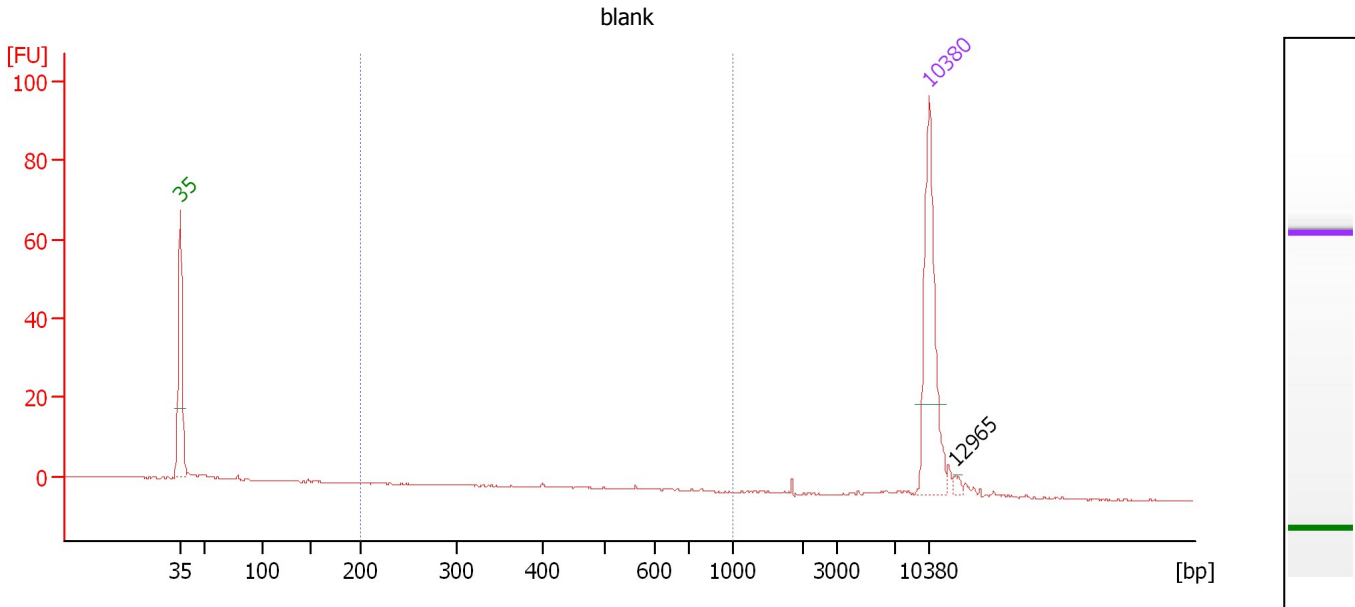
Region table for sample 10 : blank

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
200	379	1,000	2.0	11.3	9	37.6	2.38

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Electropherogram Summary Continued ...



Overall Results for sample 11 : blank

Number of peaks found: 1 Corr. Area 1: 2.1
 Noise: 0.1

Peak table for sample 11 : blank

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	12,965	0.00	0.0		115.49

Region table for sample 11 : blank

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
200	454	1,000	2.1	9.3	6	33.7	2.35

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