

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-05\2016-04-05_002.xad

Created: 4/5/2016 11:20:35 AM
Modified: 4/5/2016 12:05:26 PM

Electrophoresis File Run Summary

Instrument Information:

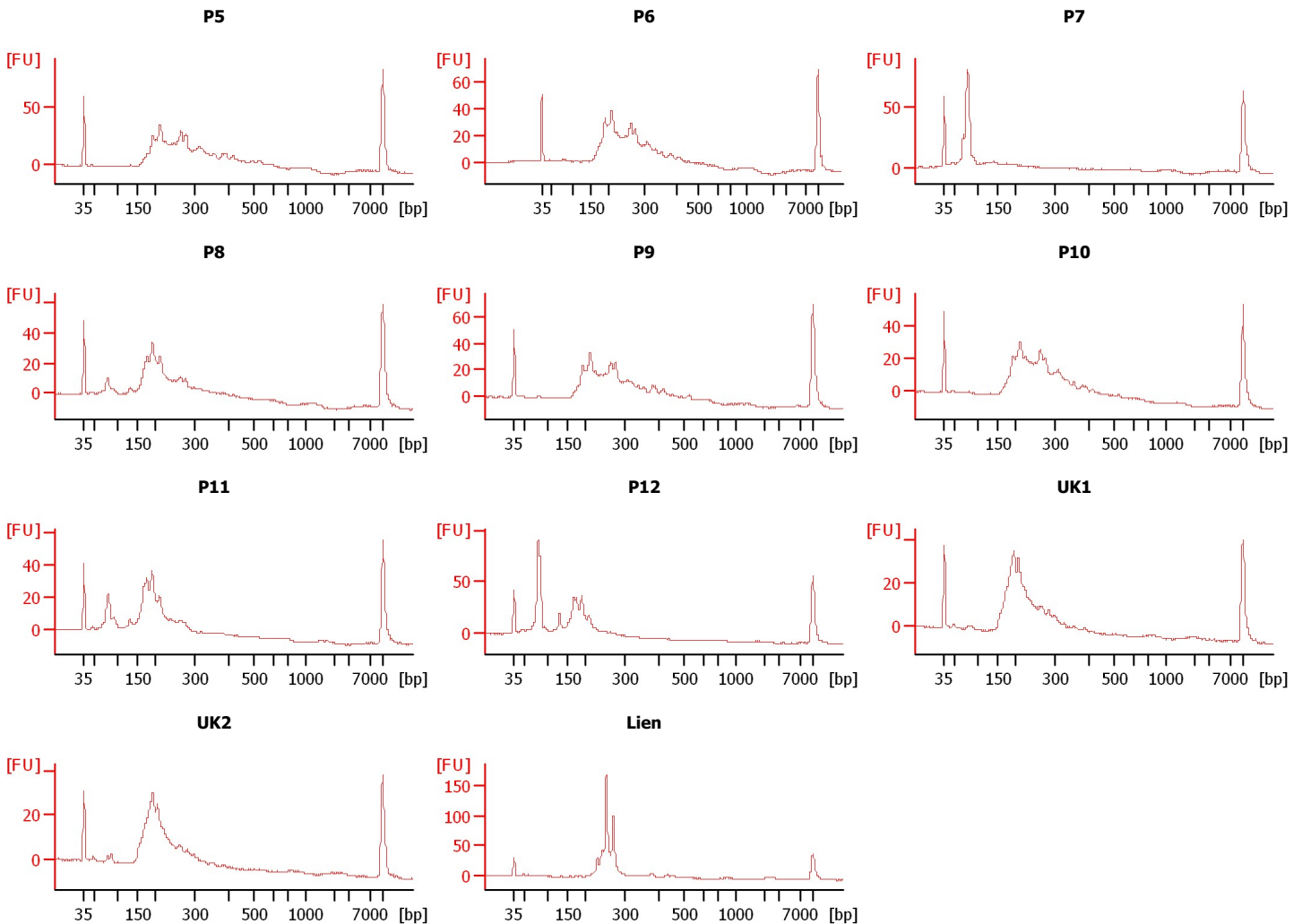
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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
P5		<input type="checkbox"/>	✓			
P6		<input type="checkbox"/>	✓			
P7		<input type="checkbox"/>	✓			
P8		<input type="checkbox"/>	✓			
P9		<input type="checkbox"/>	✓			
P10		<input type="checkbox"/>	✓			
P11		<input type="checkbox"/>	✓			
P12		<input type="checkbox"/>	✓			
UK1		<input type="checkbox"/>	✓			
UK2		<input type="checkbox"/>	✓			
Lien		<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

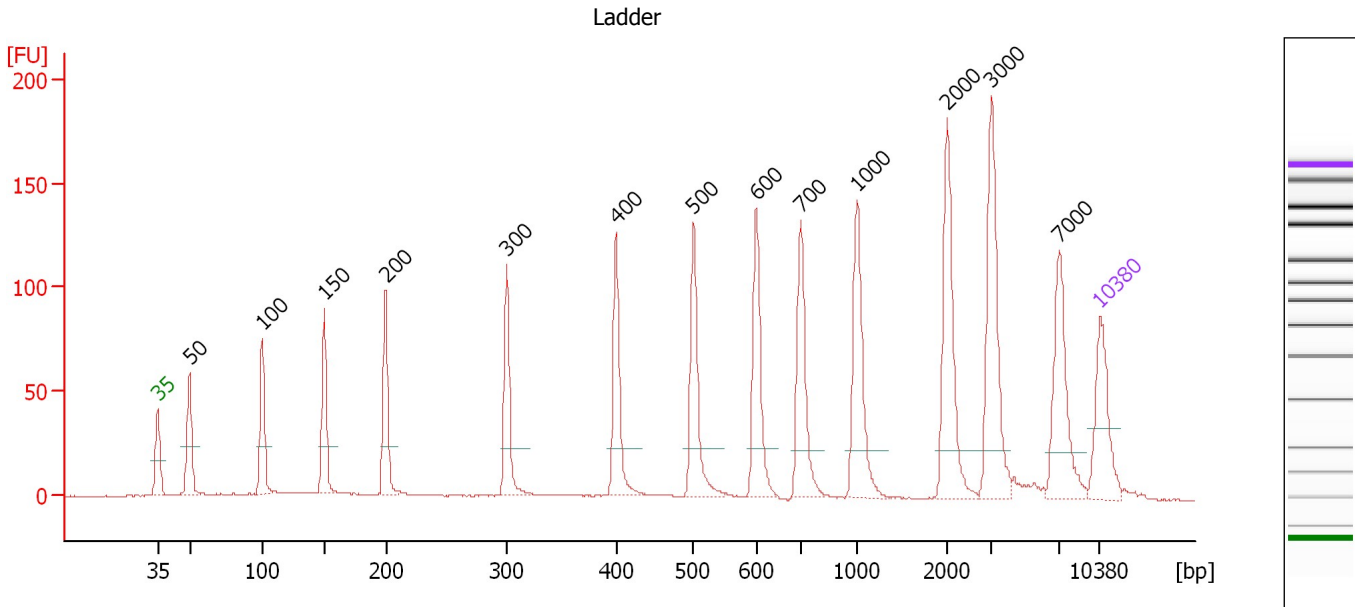
Ladder

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

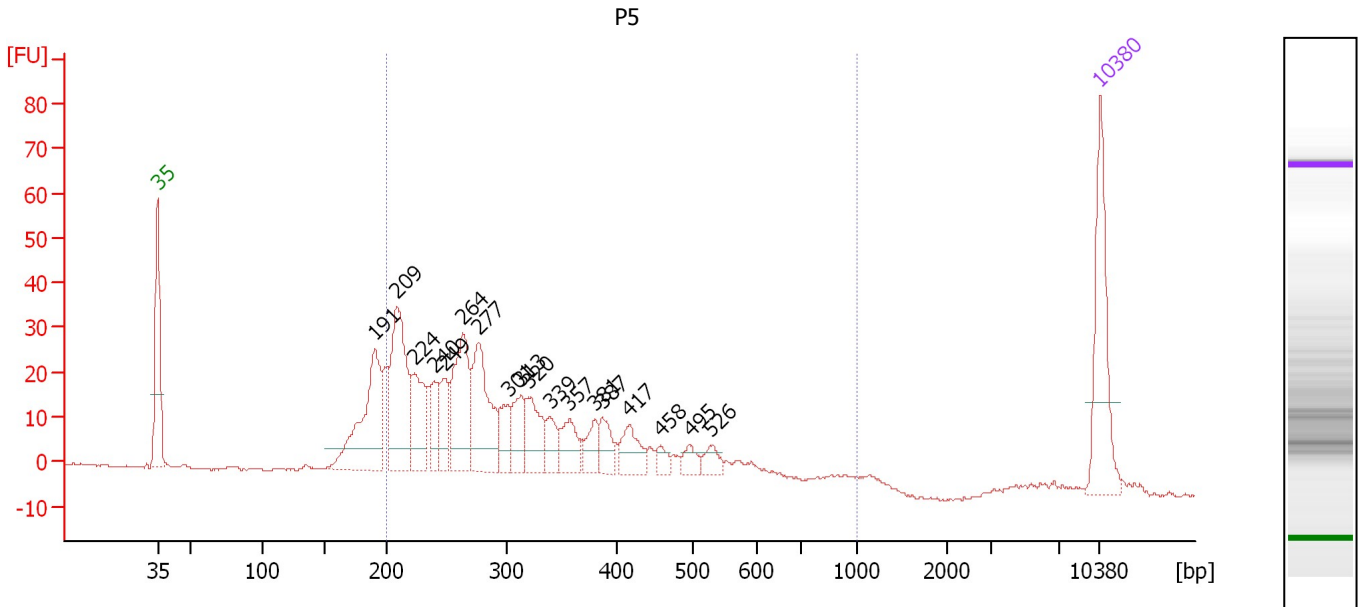
Peak table for Ladder

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	45.37
3	100	150.00	2,272.7	Ladder Peak	50.76
4	150	150.00	1,515.2	Ladder Peak	55.37
5	200	150.00	1,136.4	Ladder Peak	59.94
6	300	150.00	757.6	Ladder Peak	68.95
7	400	150.00	568.2	Ladder Peak	77.05
8	500	150.00	454.5	Ladder Peak	82.83
9	600	150.00	378.8	Ladder Peak	87.48
10	700	150.00	324.7	Ladder Peak	90.76
11	1,000	150.00	227.3	Ladder Peak	94.94
12	2,000	150.00	113.6	Ladder Peak	101.66
13	3,000	150.00	75.8	Ladder Peak	104.94
14	7,000	150.00	32.5	Ladder Peak	109.98
15	10,380	75.00	10.9	Upper Marker	113.00

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Electropherogram Summary Continued ...



Overall Results for sample 1 : P5

Number of peaks found: 18 Corr. Area 1: 596.5
 Noise: 0.2

Peak table for sample 1 : P5

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	135.08	1,072.2		59.11
3	209	139.35	1,008.0		60.79
4	224	69.00	467.0		62.09
5	240	34.35	217.2		63.51
6	249	39.01	237.6		64.33
7	264	100.85	579.6		65.67
8	277	100.65	551.4		66.84
9	301	30.72	154.6		69.04
10	313	37.65	182.4		69.99
11	320	45.40	214.8		70.59
12	339	23.16	103.4		72.15
13	357	32.00	135.8		73.57
14	381	21.47	85.4		75.52
15	387	23.70	92.7		76.04
16	417	30.18	109.7		78.02
17	458	10.67	35.3		80.40
18	495	12.99	39.7		82.56
19	526	14.26	41.1		84.02
20	10,380	75.00	10.9	Upper Marker	113.00

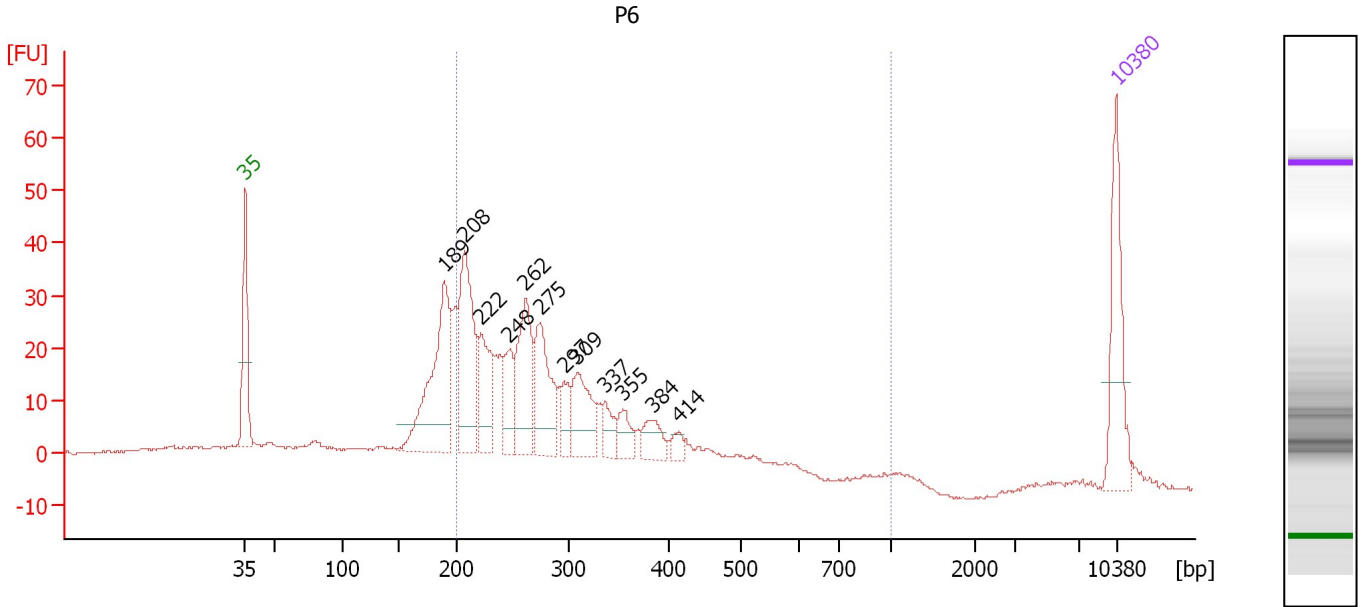
Region table for sample 1 : P5

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	334	596.5	4,888.9	933.31	83	38.9

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Electropherogram Summary Continued ...



Overall Results for sample 2 : P6

Number of peaks found: 12 Corr. Area 1: 535.5
 Noise: 0.2

Peak table for sample 2 : P6

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	189	206.12	1,648.1		58.98
3	208	171.64	1,251.0		60.65
4	222	83.45	569.1		61.94
5	248	51.84	317.0		64.25
6	262	117.11	677.0		65.53
7	275	105.74	582.7		66.69
8	297	31.14	158.9		68.66
9	309	73.31	359.3		69.69
10	337	25.40	114.3		71.92
11	355	25.49	108.9		73.37
12	384	30.20	119.2		75.73
13	414	11.40	41.7		77.87
14	10,380	75.00	10.9	Upper Marker	113.00

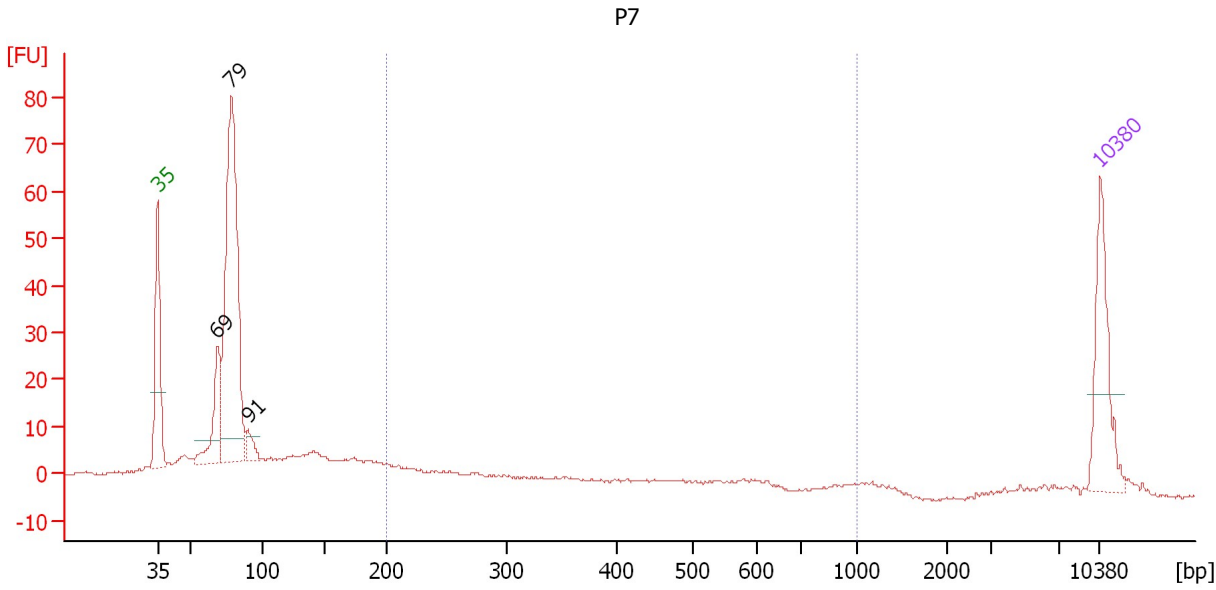
Region table for sample 2 : P6

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	300	535.5	5,689.8	1,027.83	68	31.3

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Electropherogram Summary Continued ...



Overall Results for sample 3 : P7

Number of peaks found: 3 Corr. Area 1: 78.9
 Noise: 0.3

Peak table for sample 3 : P7

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	69	83.78	1,835.6		47.43
3	79	402.05	7,726.7		48.48
4	91	19.18	319.6		49.78
5	10,380	75.00	10.9	Upper Marker	113.00

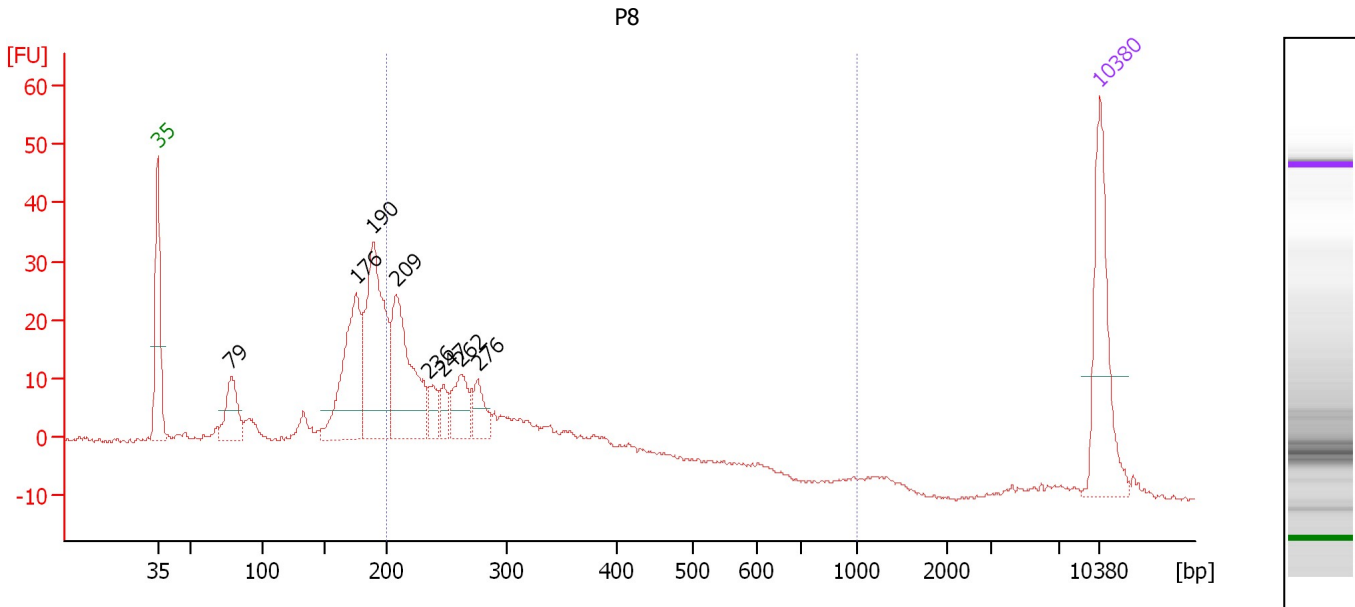
Region table for sample 3 : P7

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	389	78.9	696.9	142.66	17	45.1

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Electropherogram Summary Continued ...



Overall Results for sample 4 : P8

Number of peaks found: 8 Corr. Area 1: 317.5
 Noise: 0.4

Peak table for sample 4 : P8

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	79	49.65	954.0		48.48
3	176	127.28	1,094.8		57.76
4	190	172.63	1,375.4		59.04
5	209	131.59	955.5		60.72
6	236	20.02	128.7		63.15
7	247	15.61	95.6		64.21
8	262	38.14	220.9		65.49
9	276	25.42	139.6		66.78
10	10,380	75.00	10.9	Upper Marker	113.00

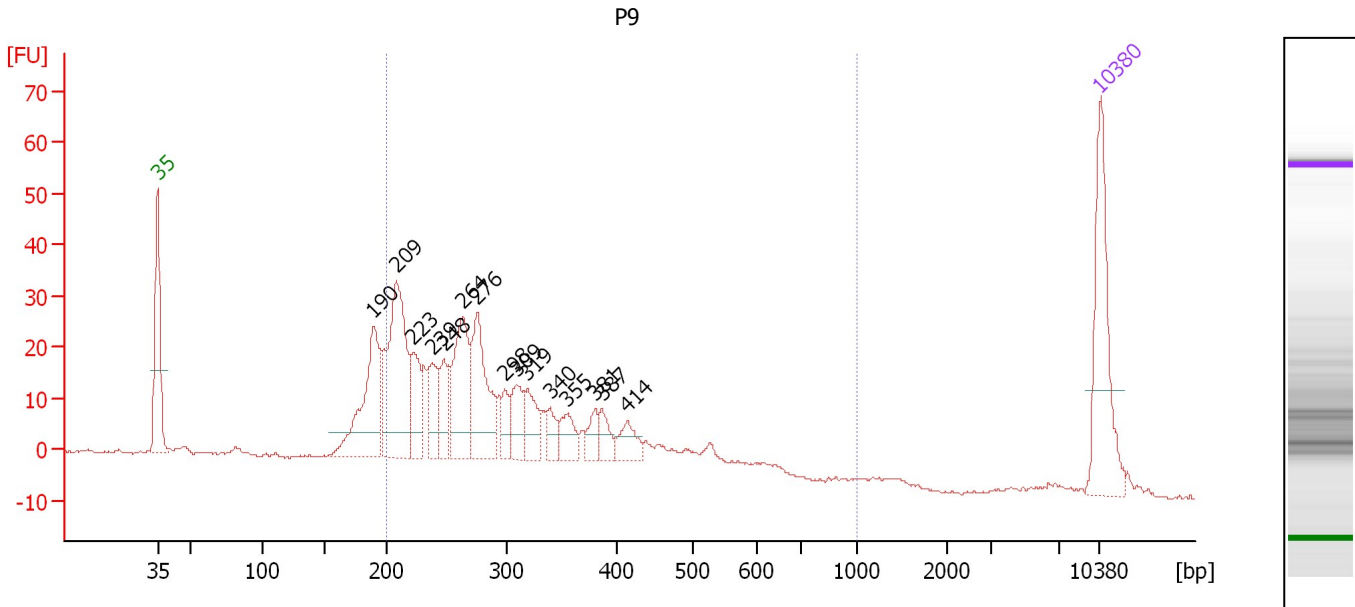
Region table for sample 4 : P8

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	305	317.5	2,992.1	537.95	52	34.1

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Electropherogram Summary Continued ...



Overall Results for sample 5 : P9

Number of peaks found: 15 Corr. Area 1: 539.1
 Noise: 0.4

Peak table for sample 5 : P9

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	190	111.85	891.8		59.03
3	209	149.25	1,080.2		60.78
4	223	45.93	312.3		61.99
5	239	38.42	243.8		63.43
6	248	32.11	196.0		64.28
7	264	86.67	498.0		65.67
8	276	88.63	487.2		66.75
9	298	19.90	101.1		68.77
10	309	31.69	155.4		69.67
11	319	30.29	143.9		70.48
12	340	15.11	67.4		72.19
13	355	22.84	97.4		73.44
14	381	14.69	58.4		75.51
15	387	16.38	64.1		76.00
16	414	20.77	75.9		77.89
17	10,380	75.00	10.9	Upper Marker	113.00

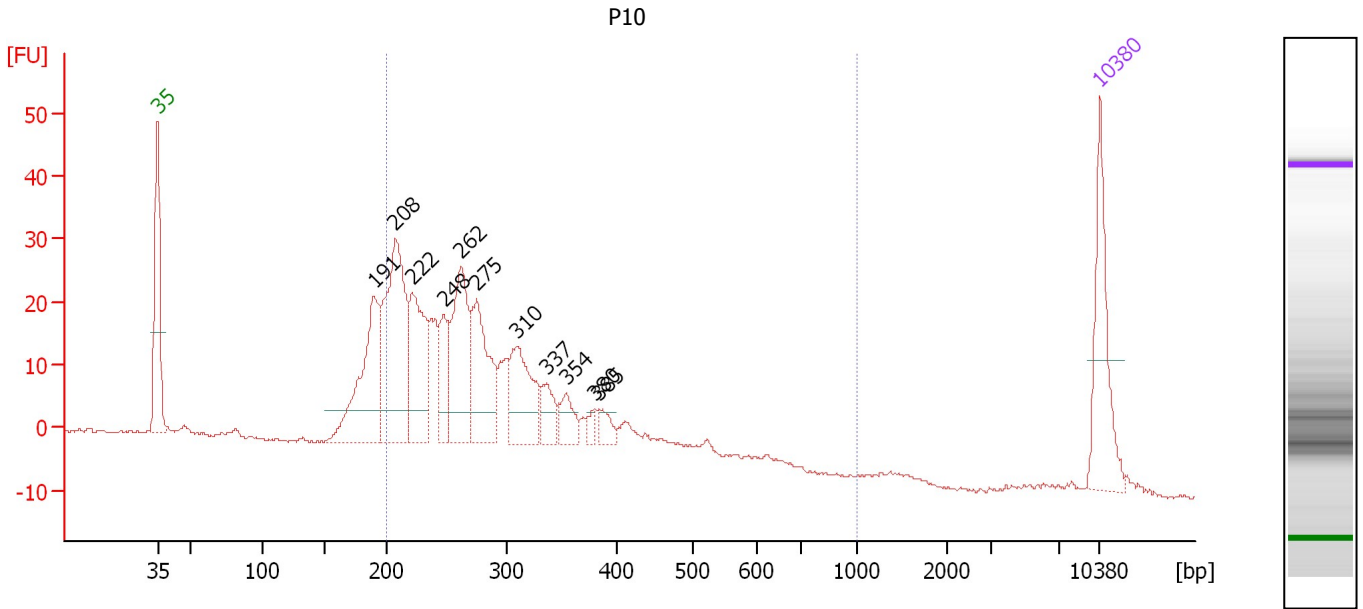
Region table for sample 5 : P9

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	323	539.1	4,501.1	845.75	79	36.1

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Electropherogram Summary Continued ...



Overall Results for sample 6 : P10

Number of peaks found: 11 Corr. Area 1: 499.0
 Noise: 0.3

Peak table for sample 6 : P10

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	159.46	1,267.9		59.08
3	208	218.78	1,592.8		60.67
4	222	119.40	815.7		61.90
5	248	48.88	298.6		64.27
6	262	129.00	746.9		65.50
7	275	116.84	642.9		66.73
8	310	90.09	440.7		69.73
9	337	30.49	137.2		71.92
10	354	27.17	116.3		73.33
11	380	8.08	32.2		75.43
12	385	15.31	60.2		75.84
13	10,380	75.00	10.9	Upper Marker	113.00

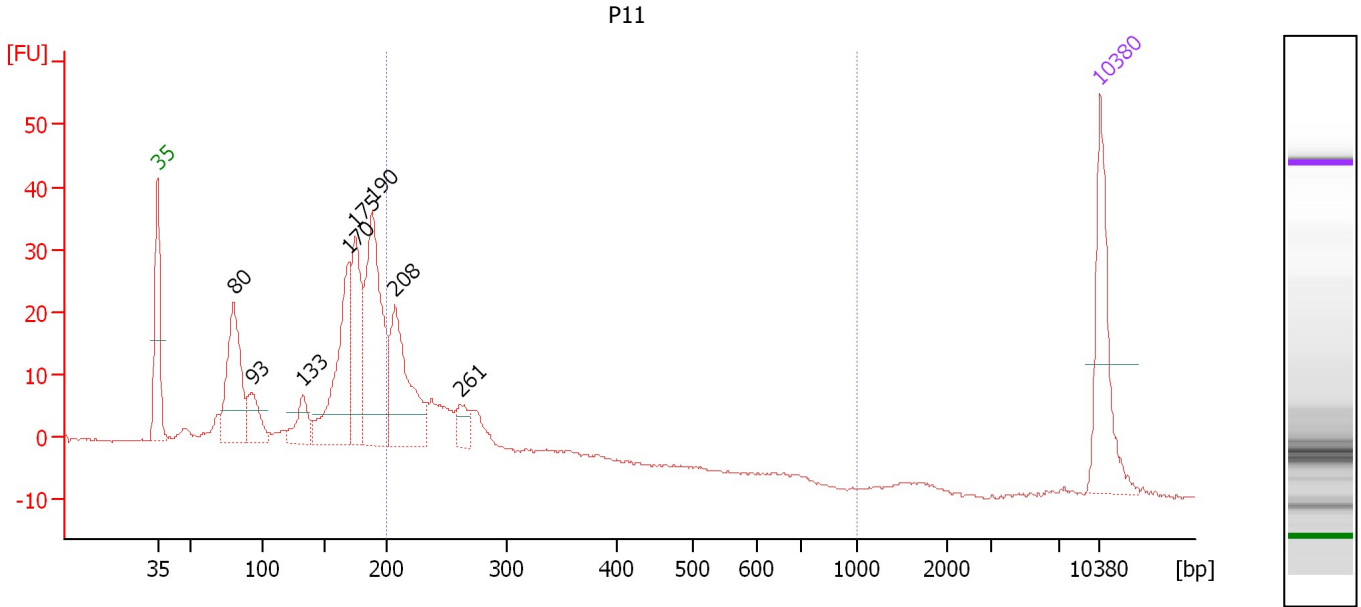
Region table for sample 6 : P10

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	307	499.0	6,161.7	1,125.12	78	33.1

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Electropherogram Summary Continued ...



Overall Results for sample 7 : P11

Number of peaks found: 8 Corr. Area 1: 161.4
 Noise: 0.2

Peak table for sample 7 : P11

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	80	135.88	2,561.7		48.64
3	93	45.18	736.7		50.00
4	133	36.08	412.1		53.77
5	170	137.83	1,226.4		57.22
6	175	105.60	912.3		57.69
7	190	194.87	1,556.7		59.00
8	208	131.69	961.0		60.63
9	261	22.65	131.3		65.48
10	10,380	75.00	10.9	Upper Marker	113.00

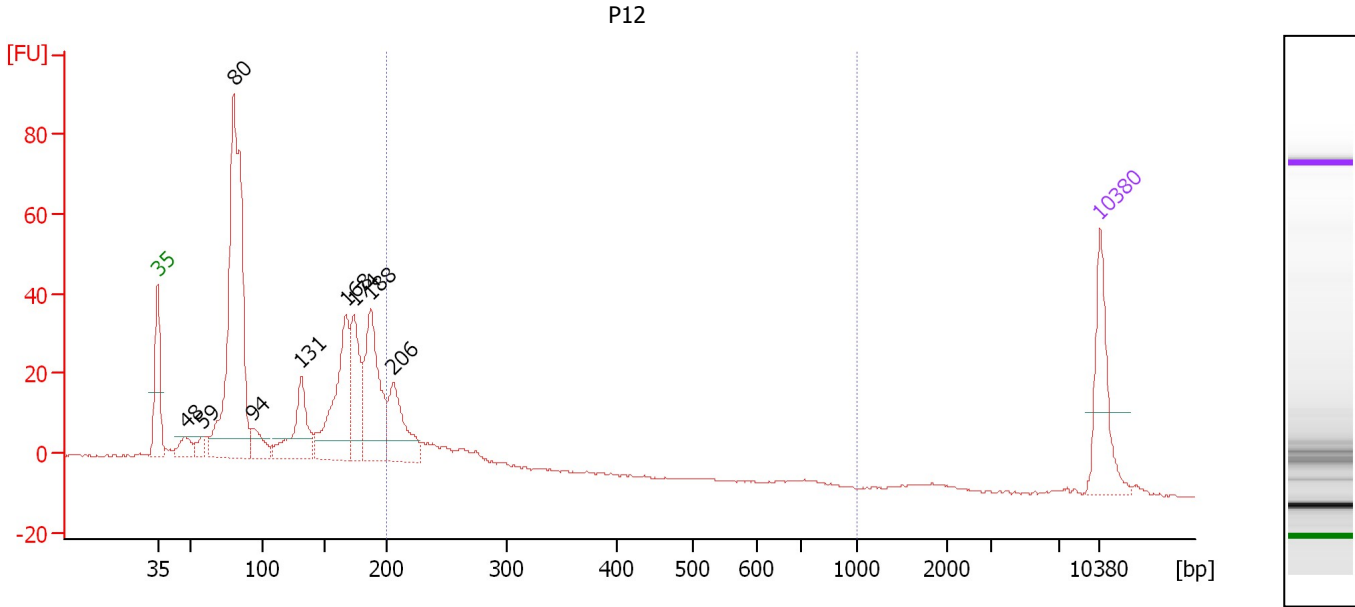
Region table for sample 7 : P11

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	259	161.4	2,103.9	342.80	32	23.9

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Electropherogram Summary Continued ...



Overall Results for sample 8 : P12

Number of peaks found: 9 Corr. Area 1: 100.8
 Noise: 0.2

Peak table for sample 8 : P12

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	48	29.19	917.6		45.09
3	59	18.29	471.5		46.32
4	80	550.01	10,373.0		48.64
5	94	41.86	674.9		50.11
6	131	108.92	1,255.0		53.66
7	168	187.07	1,690.9		56.98
8	174	110.58	960.9		57.60
9	188	174.38	1,406.5		58.83
10	206	100.29	737.3		60.49
11	10,380	75.00	10.9	Upper Marker	113.00

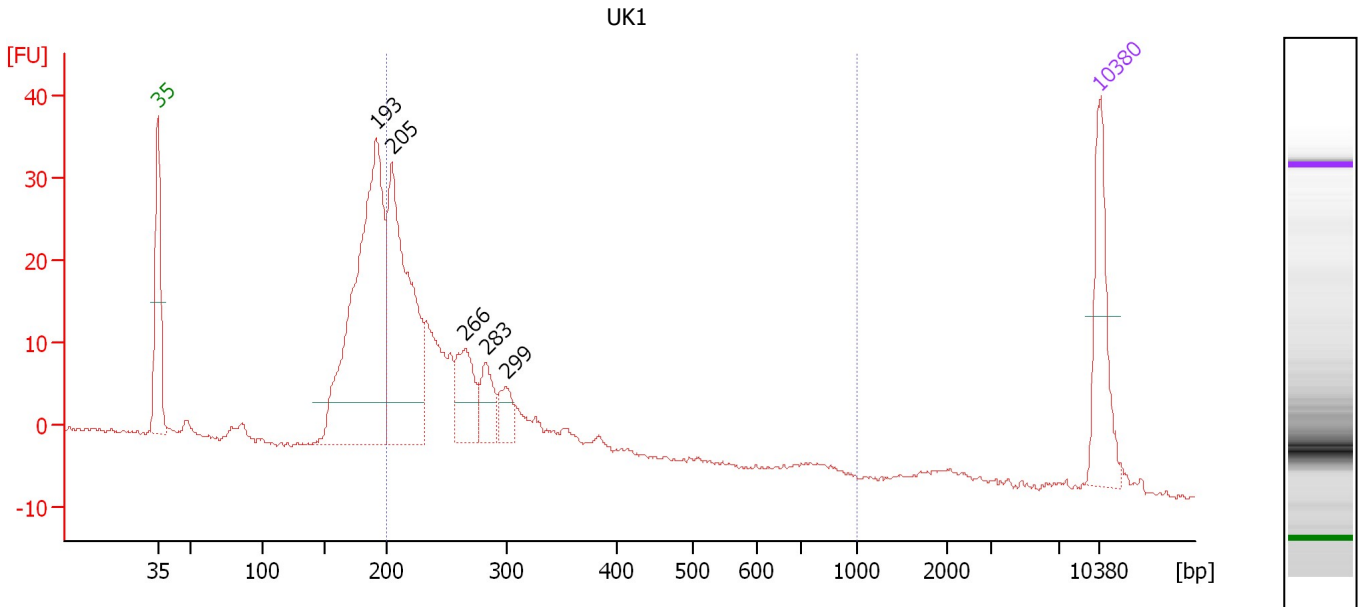
Region table for sample 8 : P12

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	237	100.8	1,394.2	215.53	16	16.4

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Electropherogram Summary Continued ...



Overall Results for sample 9 : UK1

Number of peaks found: 5 Corr. Area 1: 251.4
 Noise: 0.3

Peak table for sample 9 : UK1

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	454.47	3,570.8		59.29
3	205	306.38	2,259.8		60.43
4	266	73.48	419.1		65.86
5	283	41.55	222.8		67.38
6	299	30.06	152.3		68.86
7	10,380	75.00	10.9	Upper Marker	113.00

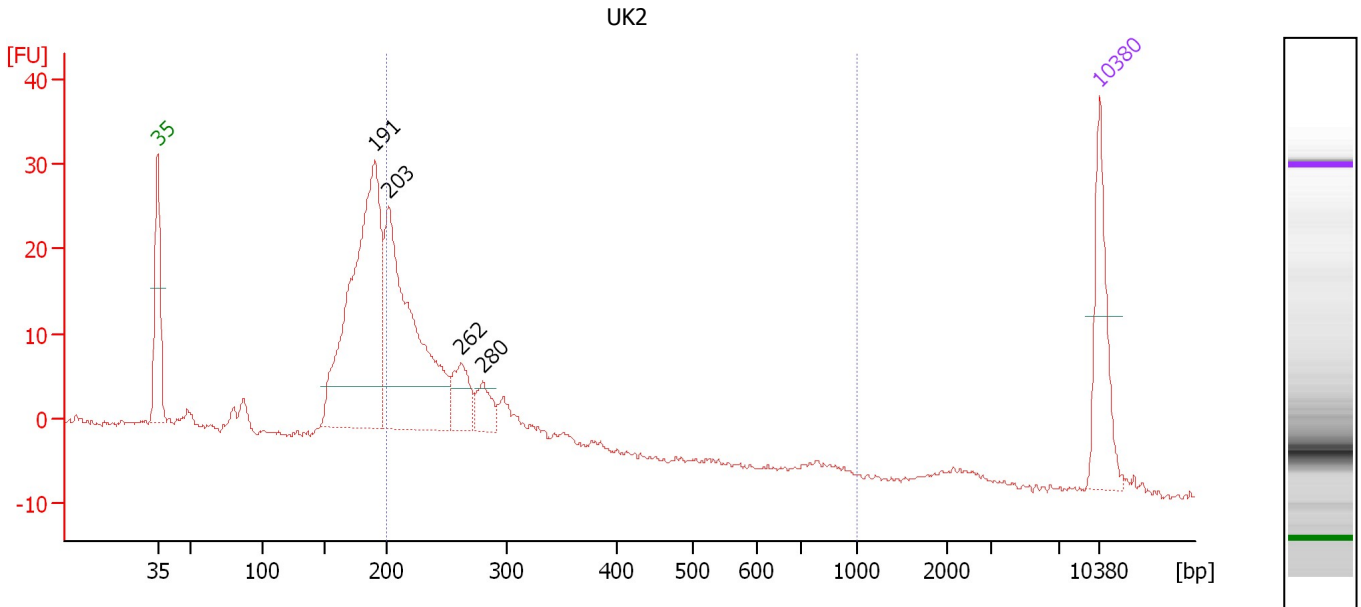
Region table for sample 9 : UK1

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	269	251.4	4,294.4	712.11	61	32.7

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Electropherogram Summary Continued ...



Overall Results for sample 10 : UK2

Number of peaks found: 4 Corr. Area 1: 193.6
 Noise: 0.3

Peak table for sample 10 : UK2

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	432.02	3,418.4		59.16
3	203	347.95	2,603.4		60.17
4	262	53.96	312.1		65.52
5	280	31.38	169.8		67.15
6	10,380	75.00	10.9	Upper Marker	113.00

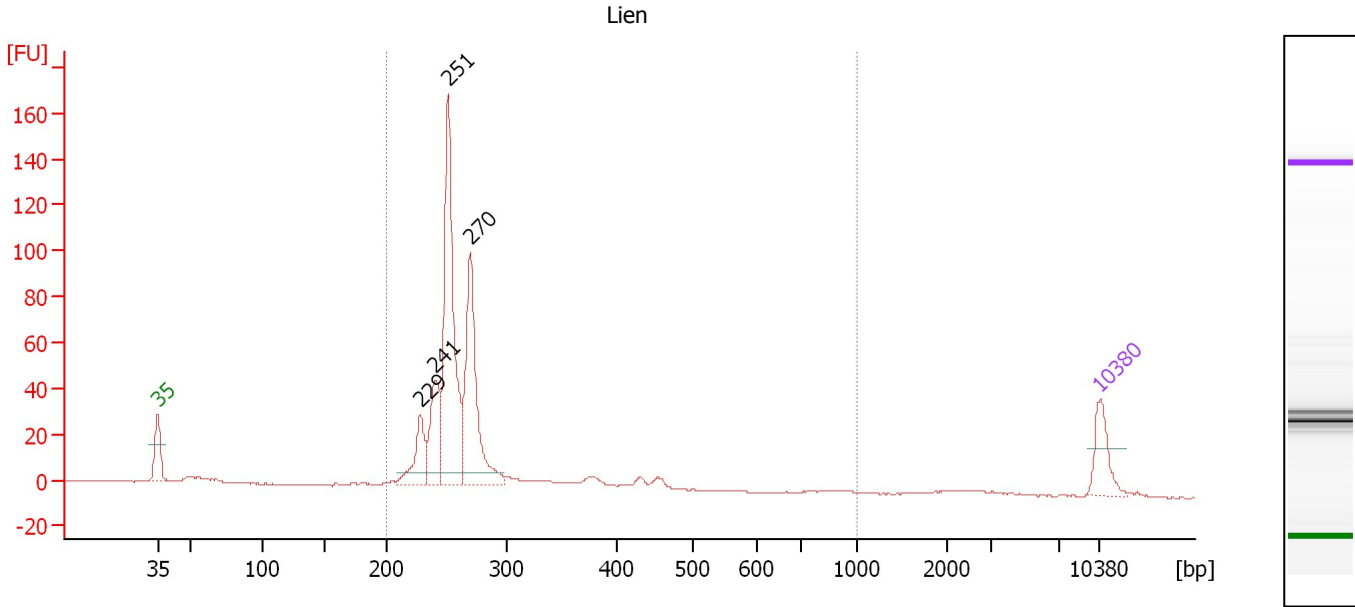
Region table for sample 10 : UK2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	268	193.6	3,644.3	600.60	49	35.1

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Electropherogram Summary Continued ...



Overall Results for sample 11 : Lien

Number of peaks found: 4 Corr. Area 1: 502.1
 Noise: 0.3

Peak table for sample 11 : Lien

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	229	132.95	881.0		62.52
3	241	172.69	1,086.3		63.62
4	251	604.46	3,641.5		64.58
5	270	400.41	2,246.2		66.25
6	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 11 : Lien

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	272	502.1	8,560.5	1,486.00	91	21.9

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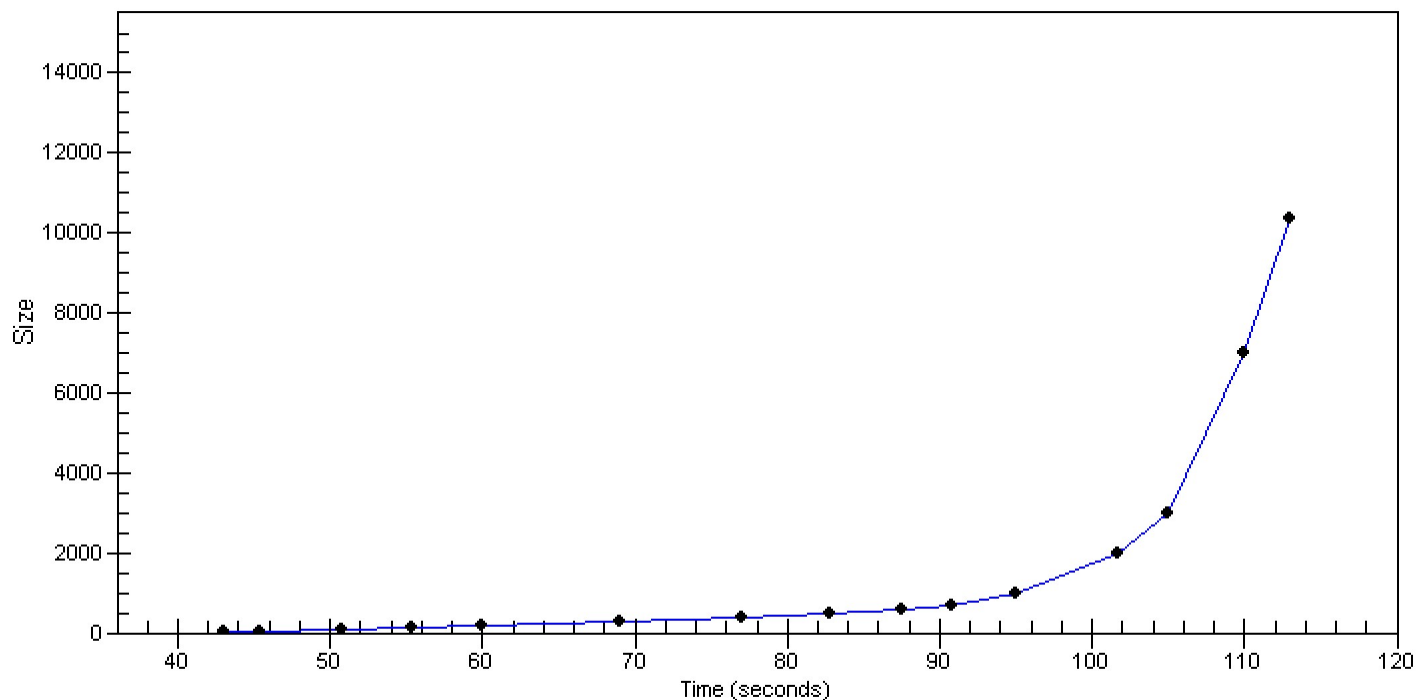
Gel Image

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Curves

Standard Curve



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Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		4/5/2016 12:01:51 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-04-05\2016-04-05_002.xad)		Instrument	Run		4/5/2016 11:20:40 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		4/5/2016 11:20:40 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/5/2016 11:20:40 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/5/2016 11:20:40 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		4/5/2016 11:20:40 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/5/2016 11:20:40 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/5/2016 11:20:40 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1