

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-19\2017-05-19_001.xad

Created: 5/19/2017 9:23:15 AM
Modified: 5/19/2017 10:23:06 AM

Electrophoresis File Run Summary

Instrument Information:

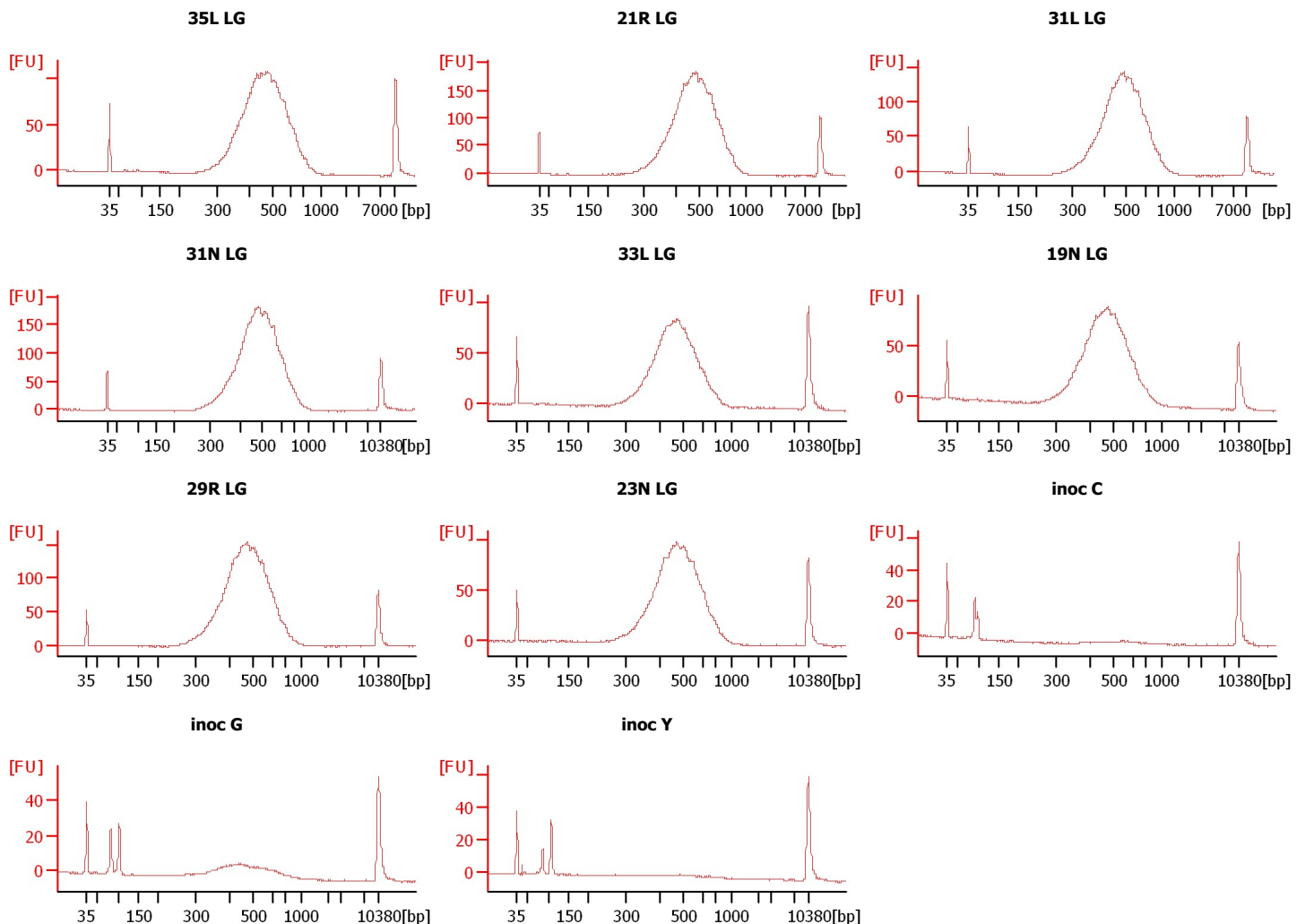
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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
35L LG		<input type="checkbox"/>	✓			
21R LG		<input type="checkbox"/>	✓			
31L LG		<input type="checkbox"/>	✓			
31N LG		<input type="checkbox"/>	✓			
33L LG		<input type="checkbox"/>	✓			
19N LG		<input type="checkbox"/>	✓			
29R LG		<input type="checkbox"/>	✓			
23N LG		<input type="checkbox"/>	✓			
inoc C		<input type="checkbox"/>	✓			
inoc G		<input type="checkbox"/>	✓			
inoc Y		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

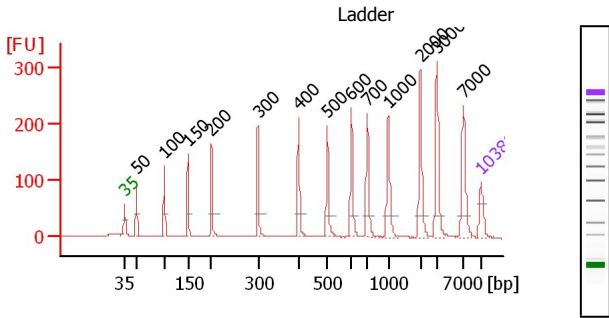
Reagent Kit Lot #

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Electropherogram Summary



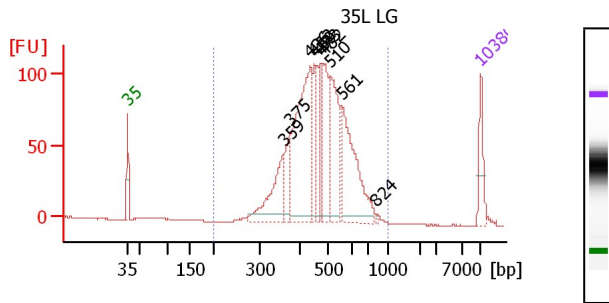
Peak table for Ladder

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time
1	35	125.00	5,411.3	Lower Marker	43.00
2	50	150.00	4,545.5	Ladder Peak	45.38
3	100	150.00	2,272.7	Ladder Peak	50.83
4	150	150.00	1,515.2	Ladder Peak	55.46
5	200	150.00	1,136.4	Ladder Peak	60.09
6	300	150.00	757.6	Ladder Peak	69.19
7	400	150.00	568.2	Ladder Peak	77.18
8	500	150.00	454.5	Ladder Peak	82.80
9	600	150.00	378.8	Ladder Peak	87.55
10	700	150.00	324.7	Ladder Peak	90.62
11	1,000	150.00	227.3	Ladder Peak	94.72
12	2,000	150.00	113.6	Ladder Peak	101.03
13	3,000	150.00	75.8	Ladder Peak	104.27

Overall Results for Ladder

Noise: 0.2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time
14	7,000	150.00	32.5	Ladder Peak	109.52
15	10,380	75.00	10.9	Upper Marker	113.00



Overall Results for sample 1 : 35L LG

Number of peaks found: 10
 Noise: 0.2
 Corr. Area 1: 1,868.4

Region table for sample 1 : 35L LG

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Conc. [pg/μl]	% of Total in CV [%]	Size distribution [%]
200	1,000	476	1,868.4	7,073.2	2,104.5	99.6	20.0

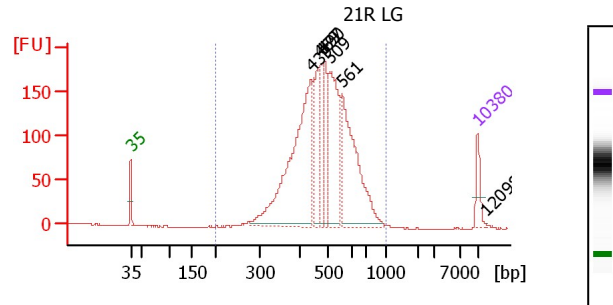
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Electropherogram Summary Continued ...

Peak table for sample 1 : 35L LG

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time
1	35	125.00	5,411.3	Lower Marker	43.00
2	359	227.66	960.4		73.92
3	375	120.33	486.5		75.16
4	436	571.29	1,987.0		79.18
5	452	99.18	332.6		80.09
6	459	106.02	349.8		80.51
7	473	86.35	276.9		81.25
8	482	224.25	704.7		81.79
9	510	267.37	793.9		83.28
10	561	330.28	892.2		85.69
11	824	4.02	7.4		92.32
12	10,380	75.00	10.9	Upper Marker	113.00



Overall Results for sample 2 : 21R LG

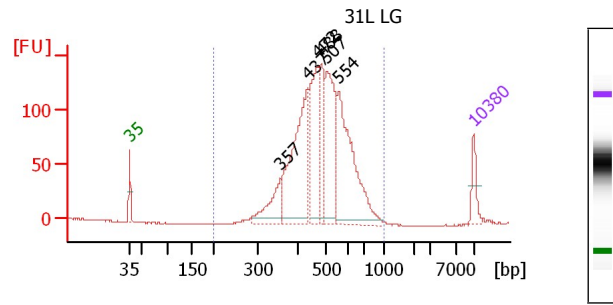
Number of peaks found: 7
 Noise: 0.3
 Corr. Area 1: 2,970.7

Region table for sample 2 : 21R LG

From To [bp]	Average Size [bp]	Corrected Area	Molarity [pmol/l]	Concentration [pg/μl]	% of Total	Size distribution CV [%]
200 - 1,000	491	2,970.7	10,467.8	3,211.8	100	20.3

Peak table for sample 2 : 21R LG

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time
1	35	125.00	5,411.3	Lower Marker	43.00
2	439	1,140.76	3,933.8		79.39
3	469	248.88	803.3		81.08
4	477	194.67	618.5		81.50
5	490	220.34	681.8		82.22
6	509	555.11	1,652.0		83.23
7	561	684.83	1,851.0		85.67
8	10,380	75.00	10.9	Upper Marker	113.00
9	12,098	0.00	0.0		114.77



Overall Results for sample 3 : 31L LG

Number of peaks found: 6
 Noise: 0.5
 Corr. Area 1: 2,221.0

Region table for sample 3 : 31L LG

From To [bp]	Average Size [bp]	Corrected Area	Molarity [pmol/l]	Concentration [pg/μl]	% of Total	Size distribution CV [%]
200 - 1,000	494	2,221.0	8,963.6	2,779.2	100	19.5

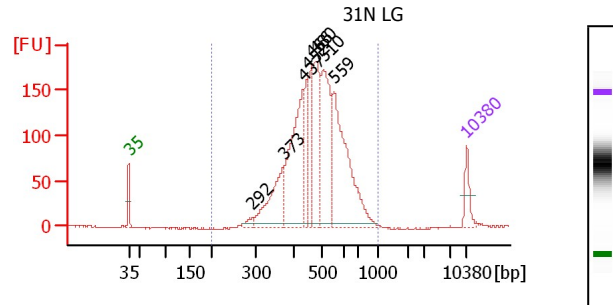
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Electropherogram Summary Continued ...

Peak table for sample 3 : 31L LG

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time
1	35	125.00	5,411.3	Lower Marker	43.00
2	357	217.74	925.4		73.70
3	437	744.91	2,585.3		79.23
4	472	472.36	1,515.8		81.23
5	488	245.79	763.0		82.13
6	507	514.87	1,537.5		83.15
7	554	689.76	1,886.8		85.36
8	10,380	75.00	10.9	Upper Marker	113.00



Overall Results for sample 4 : 31N LG

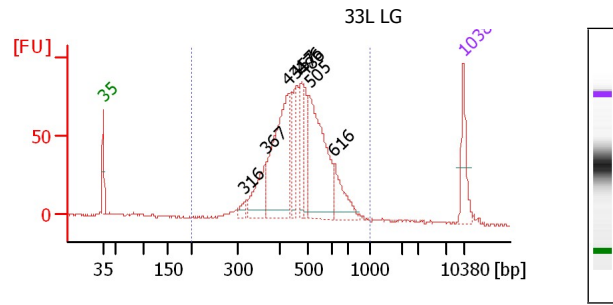
Number of peaks found: 8
 Noise: 0.5
 Corr. Area 1: 2,753.3

Region table for sample 4 : 31N LG

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	491	2,753.3	10,320.1	3,173.2	100	19.7

Peak table for sample 4 : 31N LG

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time
1	35	125.00	5,411.3	Lower Marker	43.00
2	292	30.41	157.6		68.49
3	373	354.90	1,441.8		75.02
4	437	699.66	2,426.3		79.25
5	452	186.57	626.1		80.07
6	466	211.06	686.0		80.90
7	480	406.35	1,282.6		81.67
8	510	570.62	1,695.2		83.27
9	559	724.69	1,963.9		85.60
10	10,380	75.00	10.9	Upper Marker	113.00



Overall Results for sample 5 : 33L LG

Number of peaks found: 8
 Noise: 0.6
 Corr. Area 1: 1,348.4

Region table for sample 5 : 33L LG

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	478	1,348.4	4,715.5	1,413.5	98	20.1

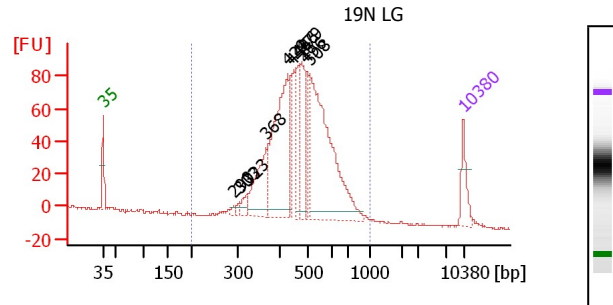
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Electropherogram Summary Continued ...

Peak table for sample 5 : 33L LG

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time
1	35	125.00	5,411.3	Lower Marker	43.00
2	316	21.16	101.5		70.44
3	367	123.10	507.6		74.58
4	431	367.11	1,289.7		78.94
5	457	77.66	257.5		80.37
6	476	89.99	286.3		81.46
7	486	89.46	278.7		82.03
8	505	377.54	1,132.8		83.03
9	616	90.60	222.9		88.04
10	10,380	75.00	10.9	Upper Marker	113.00



Overall Results for sample 6 : 19N LG

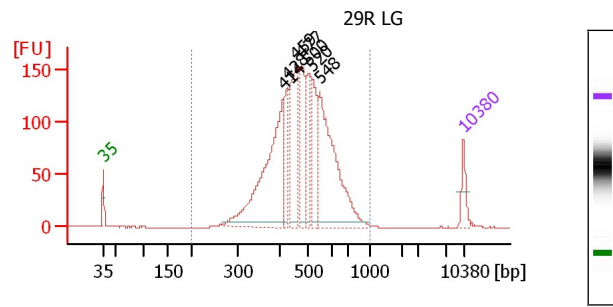
Number of peaks found: 10
 Noise: 0.6
 Corr. Area 1: 1,526.3

Region table for sample 6 : 19N LG

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Conc. [pg/μl]	% of Total	Size distribution CV [%]
200	1,000	482	1,526.3	7,973.9	2,398.0	99	20.8

Peak table for sample 6 : 19N LG

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time
1	35	125.00	5,411.3	Lower Marker	43.00
2	290	14.56	76.0		68.32
3	303	16.98	84.9		69.41
4	323	42.95	201.4		71.04
5	368	224.13	922.7		74.63
6	429	575.17	2,029.4		78.83
7	444	116.94	398.8		79.66
8	466	146.88	477.5		80.89
9	479	236.83	749.8		81.59
10	496	100.20	306.2		82.56
11	508	837.80	2,499.5		83.17
12	10,380	75.00	10.9	Upper Marker	113.00



Overall Results for sample 7 : 29R LG

Number of peaks found: 7
 Noise: 0.4
 Corr. Area 1: 2,423.6

Region table for sample 7 : 29R LG

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Conc. [pg/μl]	% of Total	Size distribution CV [%]
200	1,000	485	2,423.6	11,466.6	3,472.5	100	20.4

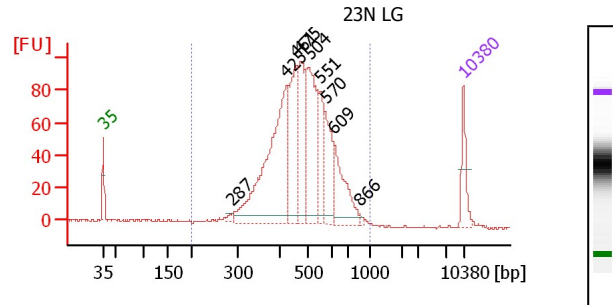
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Electropherogram Summary Continued ...

Peak table for sample 7 : 29R LG

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time
1	35	125.00	5,411.3	Lower Marker	43.00
2	414	969.70	3,547.1		77.98
3	428	205.93	729.6		78.73
4	459	453.15	1,495.2		80.50
5	477	277.34	880.3		81.52
6	500	172.35	521.9		82.81
7	520	262.54	765.1		83.74
8	548	822.61	2,275.0		85.07
9	10,380	75.00	10.9	Upper Marker	113.00



Overall Results for sample 8 : 23N LG

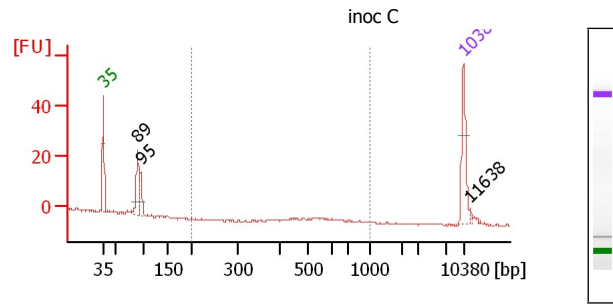
Number of peaks found: 9
 Noise: 0.5
 Corr. Area 1: 1,626.1

Region table for sample 8 : 23N LG

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	486	1,626.1	7,186.0	2,165.0	98.4	21.5

Peak table for sample 8 : 23N LG

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time
1	35	125.00	5,411.3	Lower Marker	43.00
2	287	14.07	74.2		68.01
3	425	656.52	2,343.2		78.56
4	461	316.36	1,039.8		80.60
5	475	231.90	739.4		81.40
6	504	360.52	1,082.9		83.01
7	551	136.73	375.8		85.23
8	570	148.74	395.4		86.12
9	609	187.98	468.0		87.81
10	866	6.06	10.6		92.89
11	10,380	75.00	10.9	Upper Marker	113.00



Overall Results for sample 9 : inoc C

Number of peaks found: 3
 Noise: 0.3
 Corr. Area 1: 0.1

Region table for sample 9 : inoc C

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	555	0.1	0.4	0.15	0	1.7

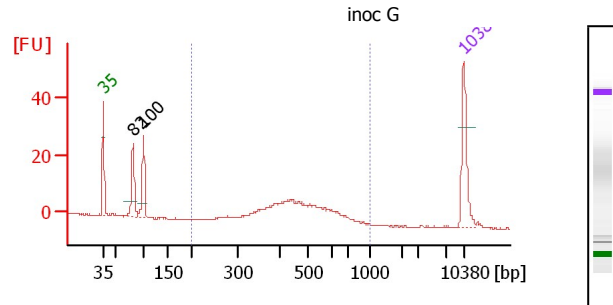
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Electropherogram Summary Continued ...

Peak table for sample 9 : inoc C

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time
1	35	125.00	5,411.3	Lower Marker	43.00
2	89	94.42	1,602.2		49.66
3	95	45.37	723.4		50.29
4	10,380	75.00	10.9	Upper Marker	113.00
5	11,638	0.00	0.0		114.30



Overall Results for sample 10 : inoc G

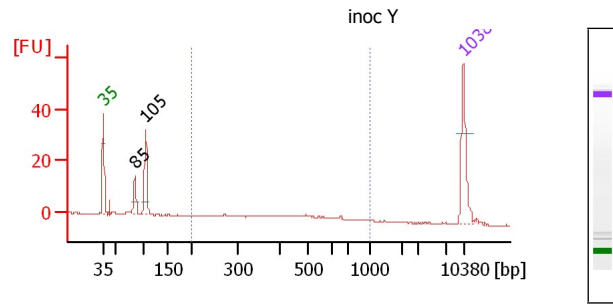
Number of peaks found: 2
 Noise: 0.2
 Corr. Area 1: 116.7

Region table for sample 10 : inoc G

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	476	116.7	750.1	221.97	65	21.5

Peak table for sample 10 : inoc G

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time
1	35	125.00	5,411.3	Lower Marker	43.00
2	82	93.97	1,746.2		48.81
3	100	91.05	1,377.3		50.84
4	10,380	75.00	10.9	Upper Marker	113.00



Overall Results for sample 11 : inoc Y

Number of peaks found: 2
 Noise: 0.2
 Corr. Area 1: 28.6

Region table for sample 11 : inoc Y

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	448	28.6	210.2	54.10	31	29.7

Peak table for sample 11 : inoc Y

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time
1	35	125.00	5,411.3	Lower Marker	43.00
2	85	47.93	855.0		49.19
3	105	95.28	1,376.7		51.28
4	10,380	75.00	10.9	Upper Marker	113.00

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Gel Image

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Gel Image