

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-02-07\2019-02-07\_002.xad

Created: 2/7/2019 11:45:07 AM  
Modified: 2/7/2019 12:26:24 PM

**Electrophoresis File Run Summary**

Instrument Information:

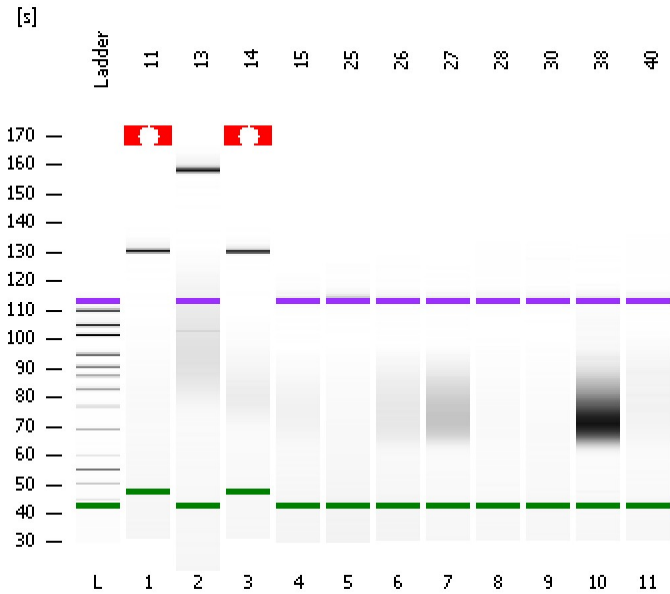
Instrument Name: DE34903152      Firmware: C.01.069  
Serial#: DE34903152      Type: G2938C

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:

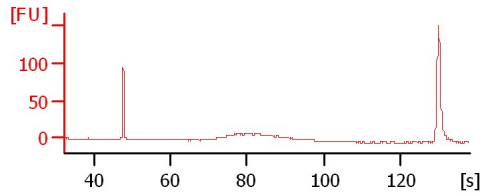
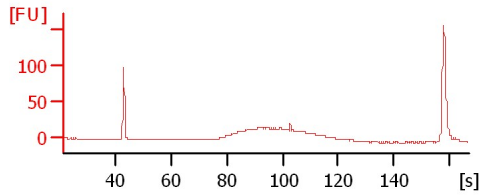
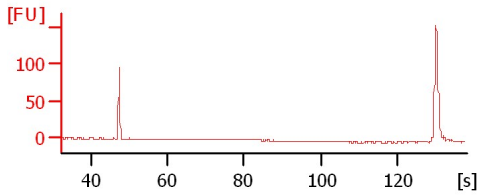
Chip Lot #:      Reagent Kit Lot #:  
Chip Comments:



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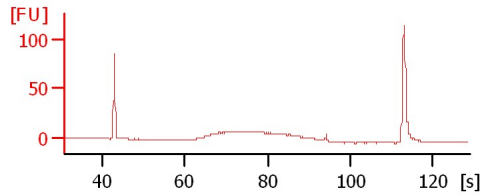
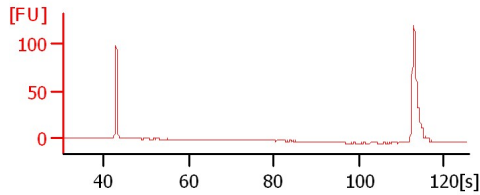
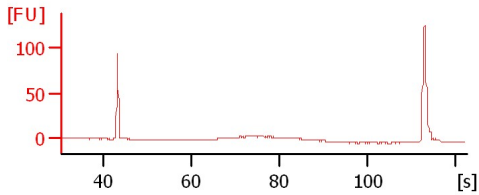
14



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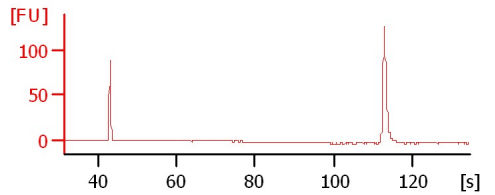
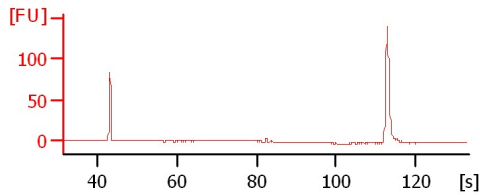
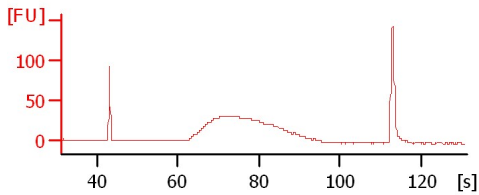
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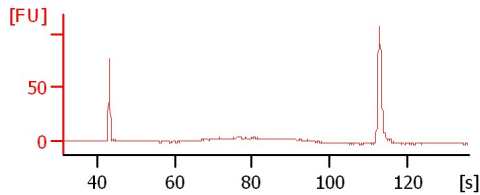
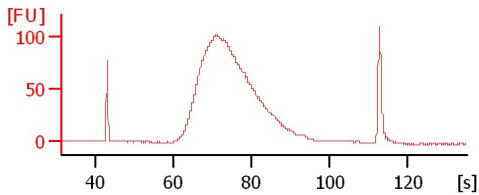
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**Electrophoresis File Run Summary (Chip Summary)**

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
11		<input type="checkbox"/>	✓			
13		<input type="checkbox"/>	✓			
14		<input type="checkbox"/>	✓			
15		<input type="checkbox"/>	✓			
25		<input type="checkbox"/>	✓			
26		<input type="checkbox"/>	✓			
27		<input type="checkbox"/>	✓			
28		<input type="checkbox"/>	✓			
30		<input type="checkbox"/>	✓			
38		<input type="checkbox"/>	✓			
40		<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

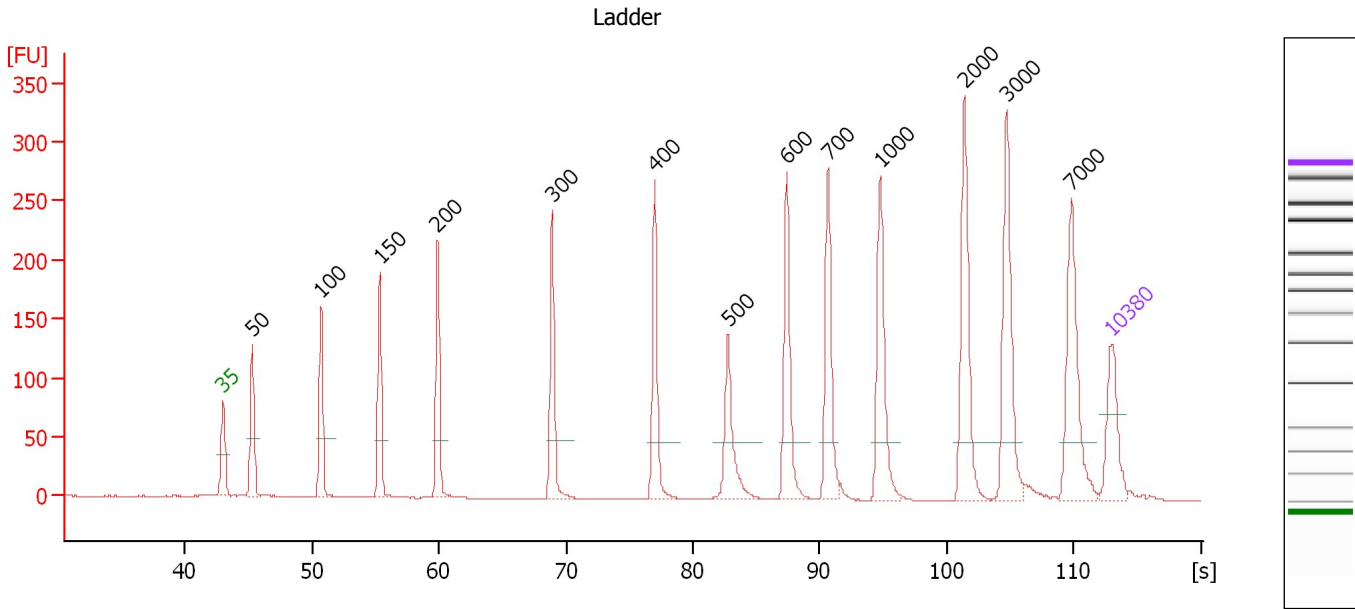
**Ladder**

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**

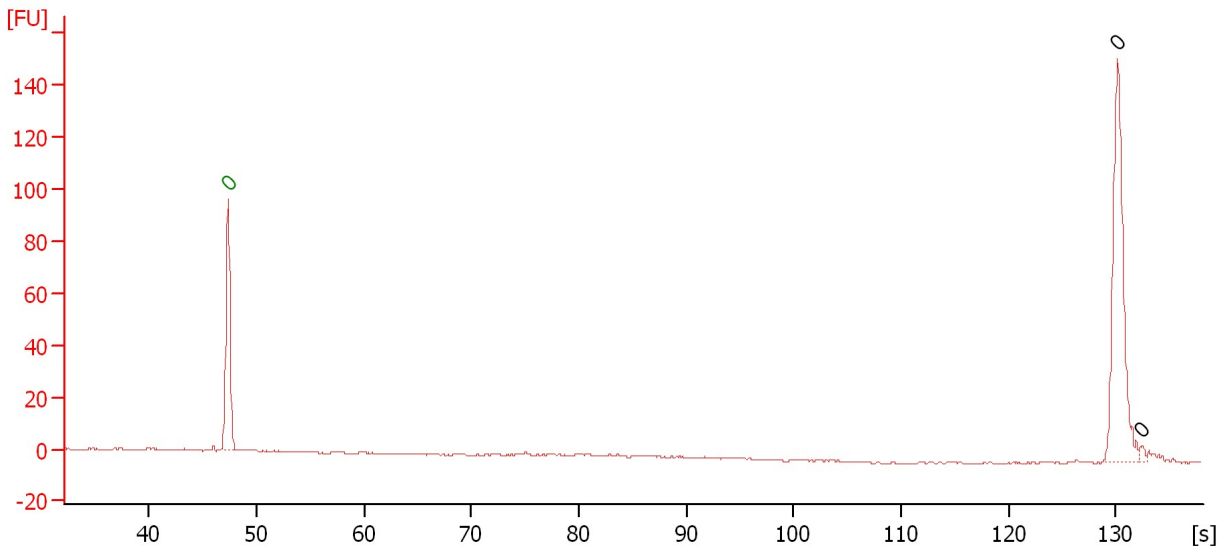
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	50	150.00	4,545.5	Ladder Peak	45.32
3	100	150.00	2,272.7	Ladder Peak	50.74
4	150	150.00	1,515.2	Ladder Peak	55.34
5	200	150.00	1,136.4	Ladder Peak	59.91
6	300	150.00	757.6	Ladder Peak	68.91
7	400	150.00	568.2	Ladder Peak	76.99
8	500	150.00	454.5	Ladder Peak	82.78
9	600	150.00	378.8	Ladder Peak	87.38
10	700	150.00	324.7	Ladder Peak	90.64
11	1,000	150.00	227.3	Ladder Peak	94.74
12	2,000	150.00	113.6	Ladder Peak	101.38
13	3,000	150.00	75.8	Ladder Peak	104.71
14	7,000	150.00	32.5	Ladder Peak	109.79
15	10,380	75.00	10.9	Upper Marker	113.00

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**Electropherogram Summary Continued ...**

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**Overall Results for sample 1 : 11**

Number of peaks found: 2                      Noise: 0.3

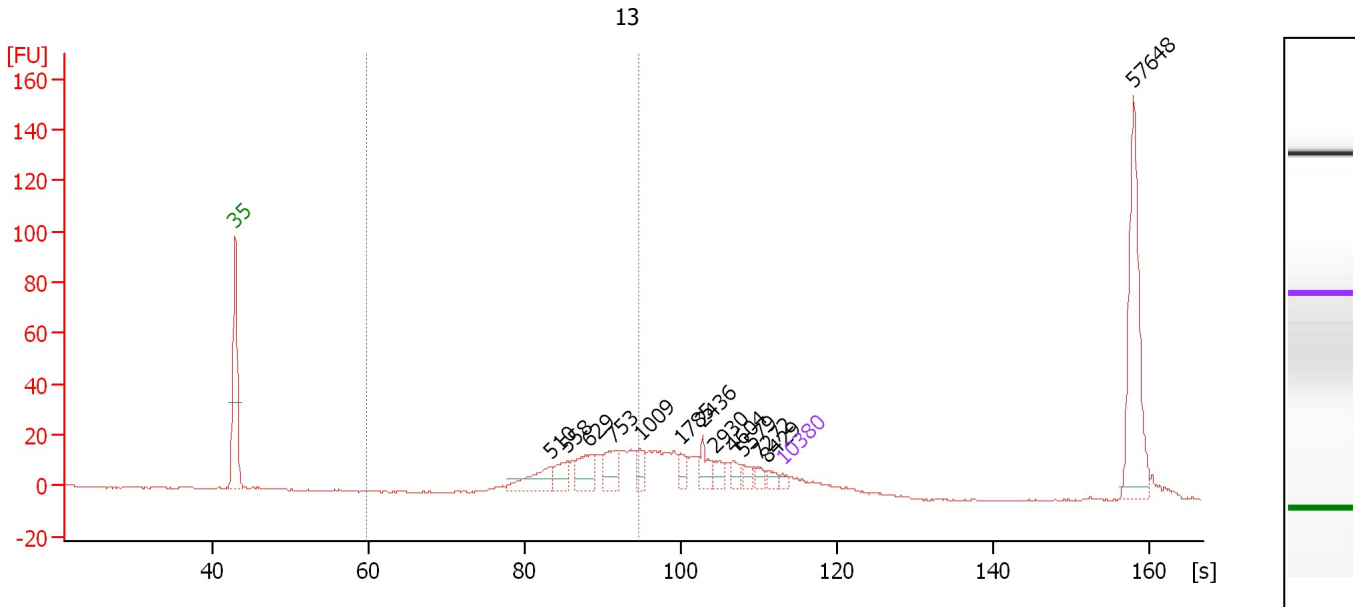
**Peak table for sample 1 : 11**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	47.35
2	0	0.00	0.0		130.15
3	0	0.00	0.0		132.35

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**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : 13**

Number of peaks found: 13                      Corr. Area 1: 176.1  
 Noise: 0.2

**Peak table for sample 2 : 13**

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	510	777.80	2,309.0		83.26
3	558	458.23	1,244.0		85.45
4	629	649.97	1,564.8		88.34
5	753	641.94	1,292.0		91.36
6	1,009	269.56	405.0		94.80
7	1,785	246.74	209.5		99.95
8	2,436	310.49	193.1		102.83
9	2,930	228.90	118.4		104.48
10	4,604	186.34	61.3		106.75
11	5,579	160.82	43.7		107.99
12	7,272	142.77	29.7		110.05
13	8,429	145.25	26.1		111.15
14	10,380	75.00	10.9	Upper Marker	113.00
15	57,648	0.00	0.0		157.93

**Region table for sample 2 : 13**

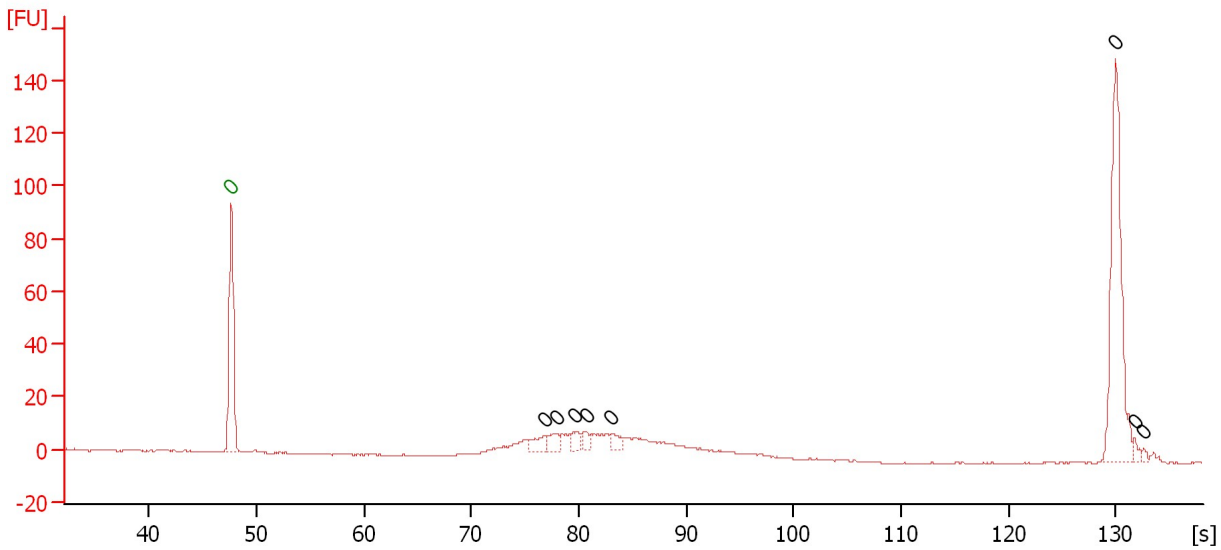
From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	662	3,901.97	176.1	9,560.6	33	23.6

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**Electropherogram Summary Continued ...**

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**Overall Results for sample 3 : 14**

Number of peaks found: 8                      Noise: 0.2

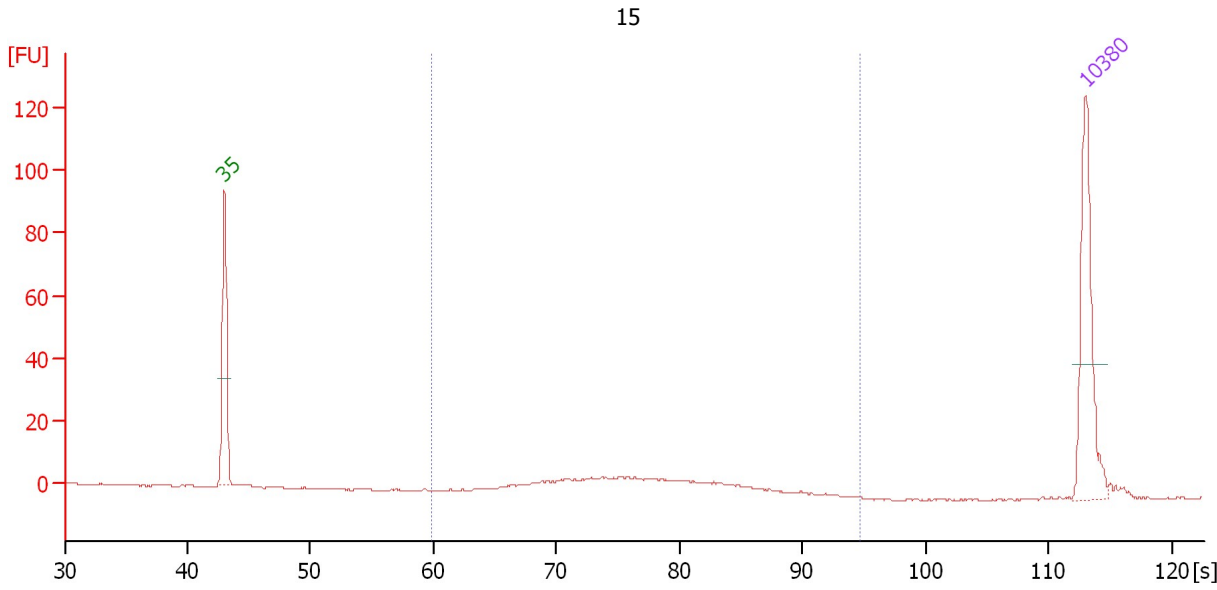
**Peak table for sample 3 : 14**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	47.65
2	0	0.00	0.0		76.85
3	0	0.00	0.0		77.95
4	0	0.00	0.0		79.55
5	0	0.00	0.0		80.70
6	0	0.00	0.0		83.00
7	0	0.00	0.0		129.95
8	0	0.00	0.0		131.75
9	0	0.00	0.0		132.60

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-02-07\2019-02-07\_002.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : 15**

Number of peaks found: 0                      Corr. Area 1: 86.7  
 Noise: 0.2

**Peak table for sample 4 : 15**

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 4 : 15**

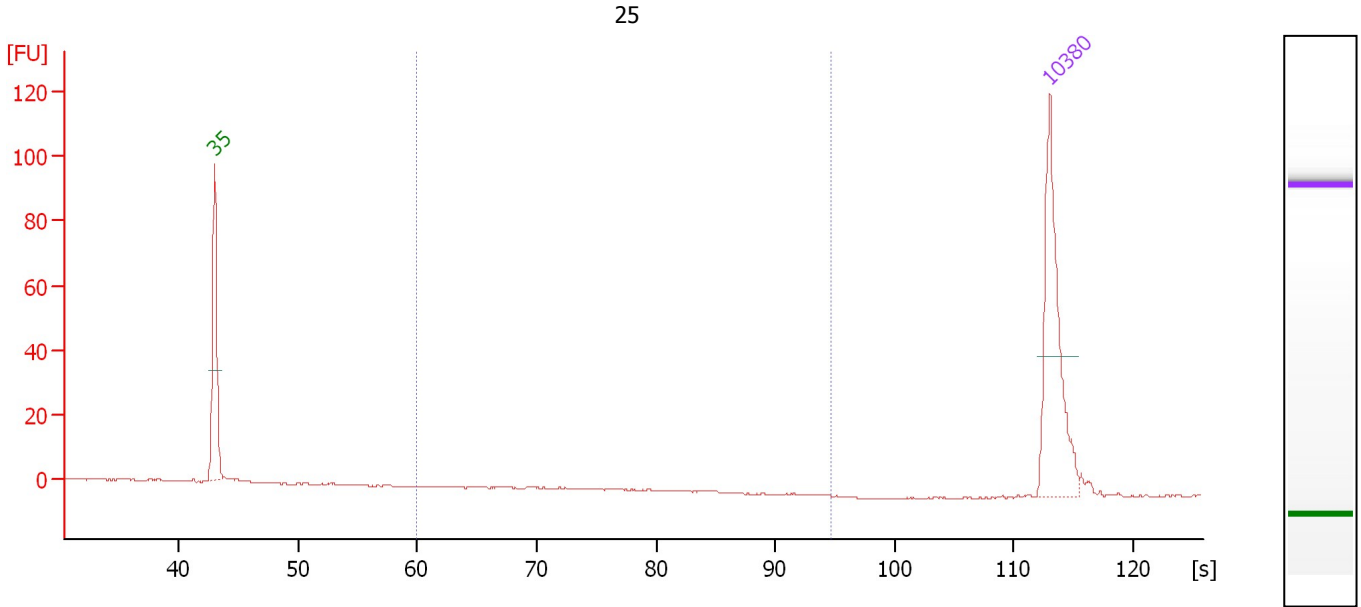
From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	405	79.39	86.7	314.5	93	20.5



Assay Class: High Sensitivity DNA Assay  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : 25**

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

**Peak table for sample 5 : 25**

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

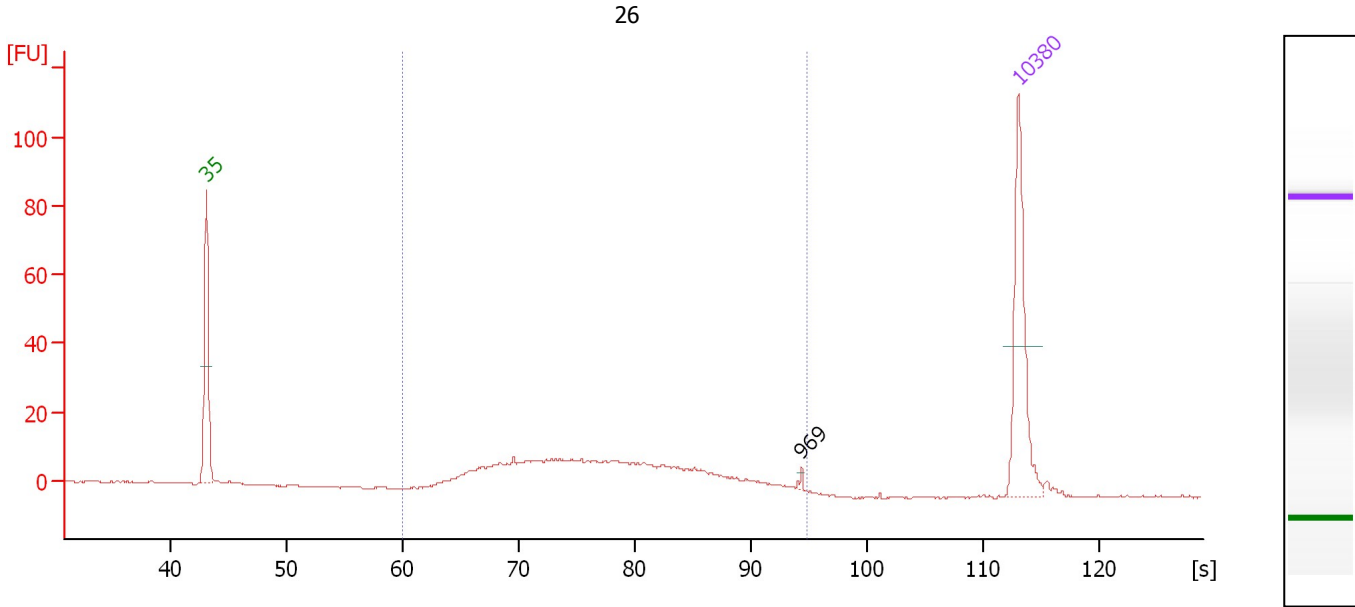
**Region table for sample 5 : 25**

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

Assay Class: High Sensitivity DNA Assay  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : 26**

Number of peaks found: 1                      Corr. Area 1: 239.6  
 Noise: 0.2

**Peak table for sample 6 : 26**

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	969	1.80	2.8		94.31
3	10,380	75.00	10.9	Upper Marker	113.00

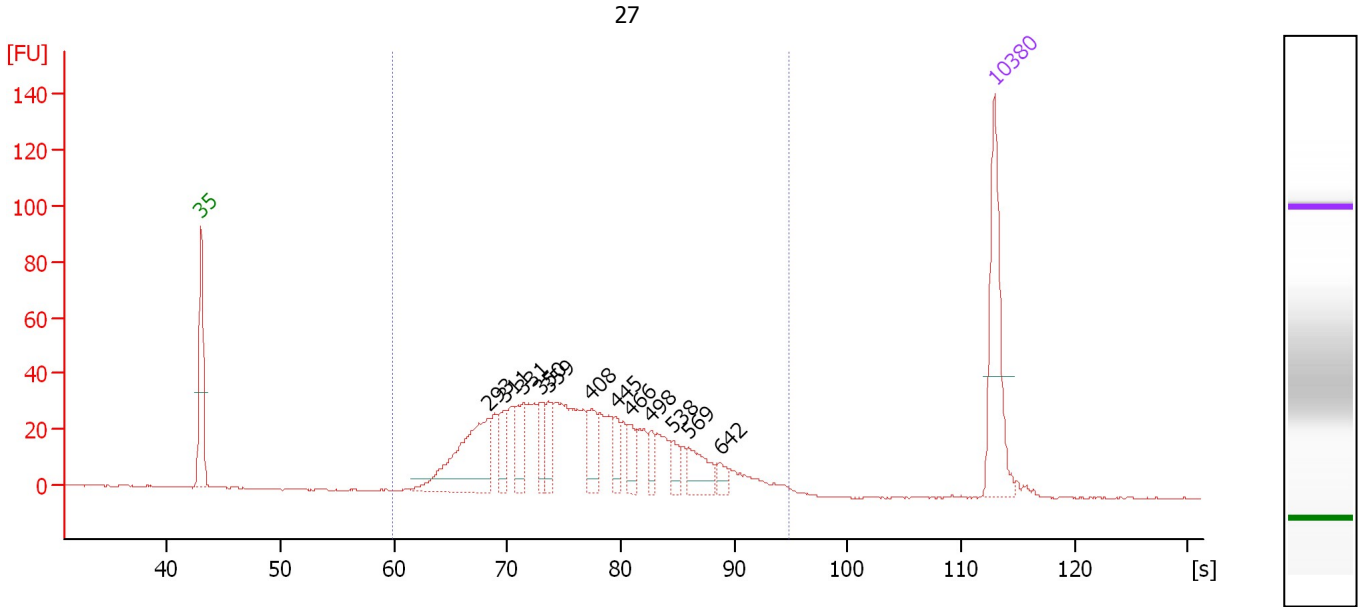
**Region table for sample 6 : 26**

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	433	251.22	239.6	998.0	96	32.7

Assay Class: High Sensitivity DNA Assay  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : 27**

Number of peaks found: 12                      Corr. Area 1: 813.5  
 Noise: 0.1

**Peak table for sample 7 : 27**

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	293	116.45	602.0		68.29
3	311	27.79	135.3		69.81
4	331	30.50	139.6		71.42
5	350	22.93	99.1		72.98
6	359	22.68	95.8		73.64
7	408	28.77	106.9		77.43
8	445	16.50	56.2		79.56
9	466	19.18	62.4		80.79
10	498	13.08	39.8		82.69
11	538	14.84	41.8		84.54
12	569	29.71	79.1		85.96
13	642	9.25	21.8		88.75
14	10,380	75.00	10.9	Upper Marker	113.00

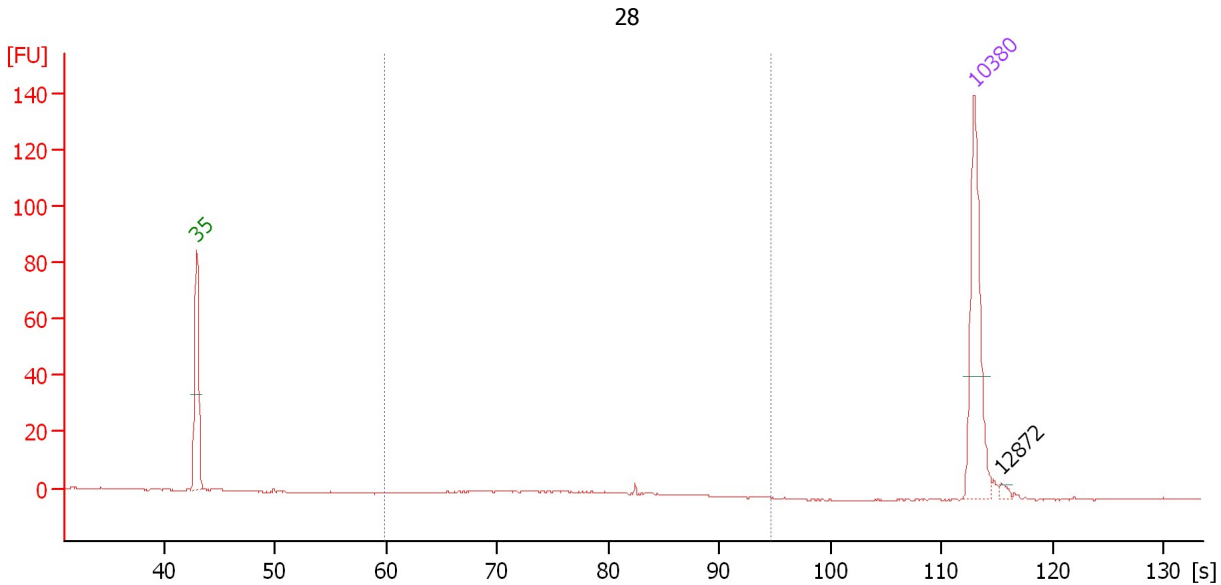
**Region table for sample 7 : 27**

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	416	671.69	813.5	2,727.2	99	30.1

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**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : 28**

Number of peaks found: 1                      Corr. Area 1: 4.5  
 Noise: 0.2

**Peak table for sample 8 : 28**

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	12,872	0.00	0.0		115.37

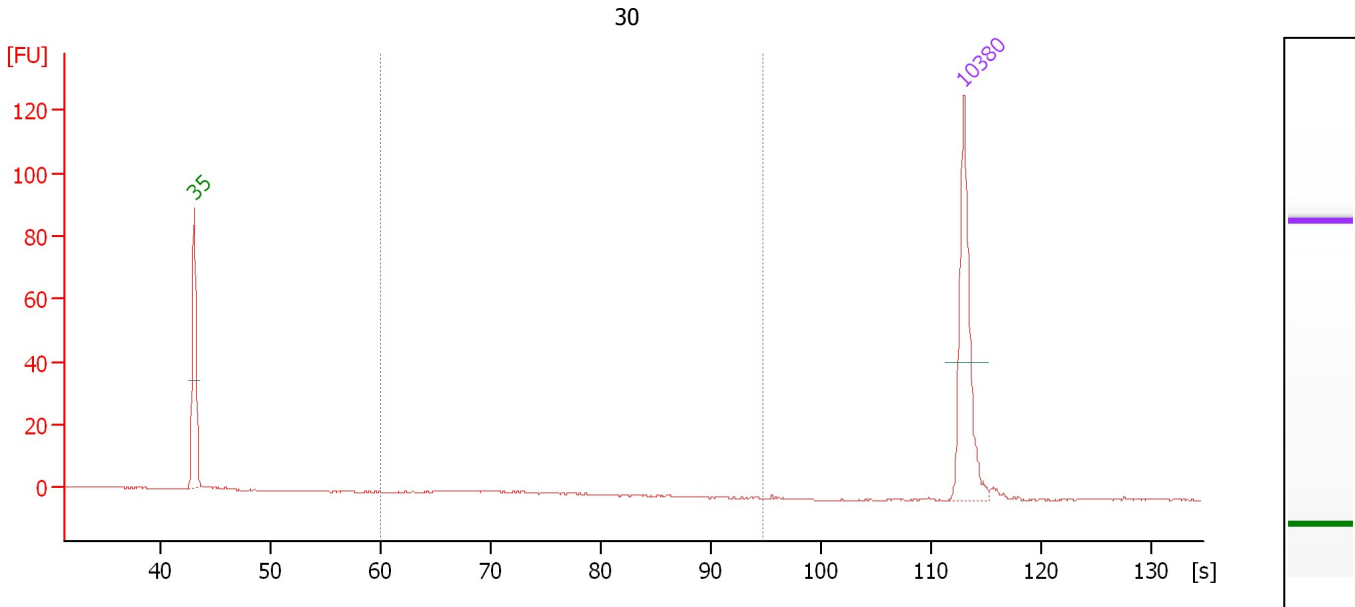
**Region table for sample 8 : 28**

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	395	3.87	4.5	15.4	40	16.4

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**Overall Results for sample 9 : 30**

Number of peaks found: 0                      Corr. Area 1: 2.1  
 Noise: 0.2

**Peak table for sample 9 : 30**

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

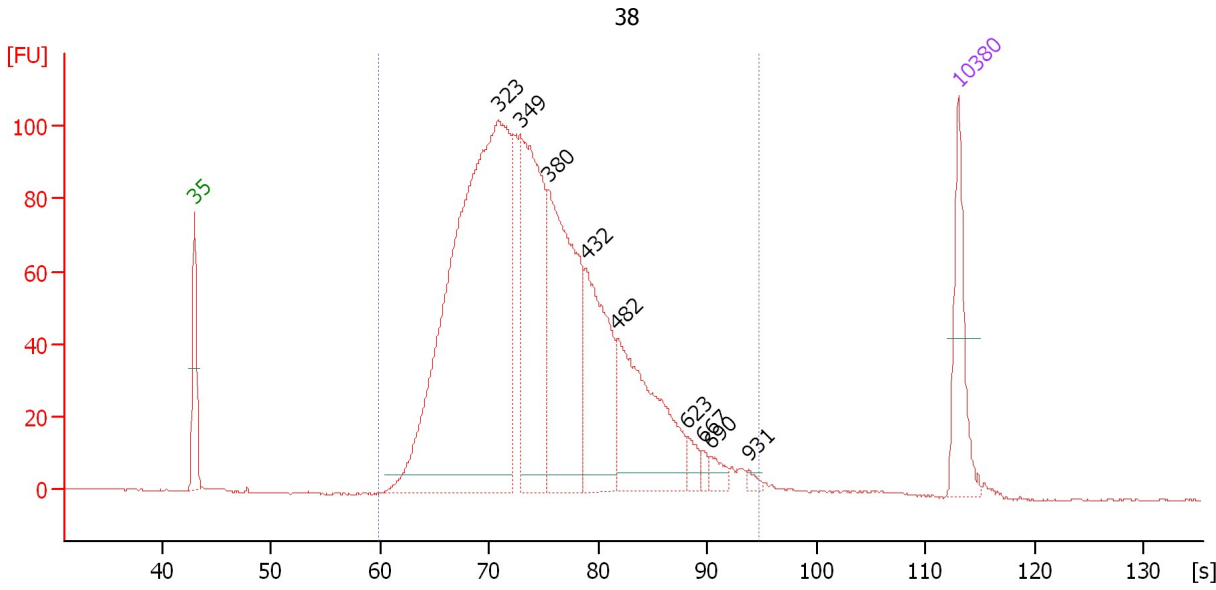
**Region table for sample 9 : 30**

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	306	2.14	2.1	10.6	23	8.3

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**Overall Results for sample 10 : 38**

Number of peaks found: 9                      Corr. Area 1: 2,125.7  
 Noise: 0.2

**Peak table for sample 10 : 38**

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	323	1,032.57	4,844.6		70.76
3	349	333.69	1,450.6		72.83
4	380	342.94	1,366.5		75.39
5	432	201.19	705.7		78.84
6	482	225.38	708.3		81.74
7	623	17.40	42.3		88.14
8	667	8.23	18.7		89.57
9	690	14.65	32.2		90.31
10	931	5.28	8.6		93.80
11	10,380	75.00	10.9	Upper Marker	113.00

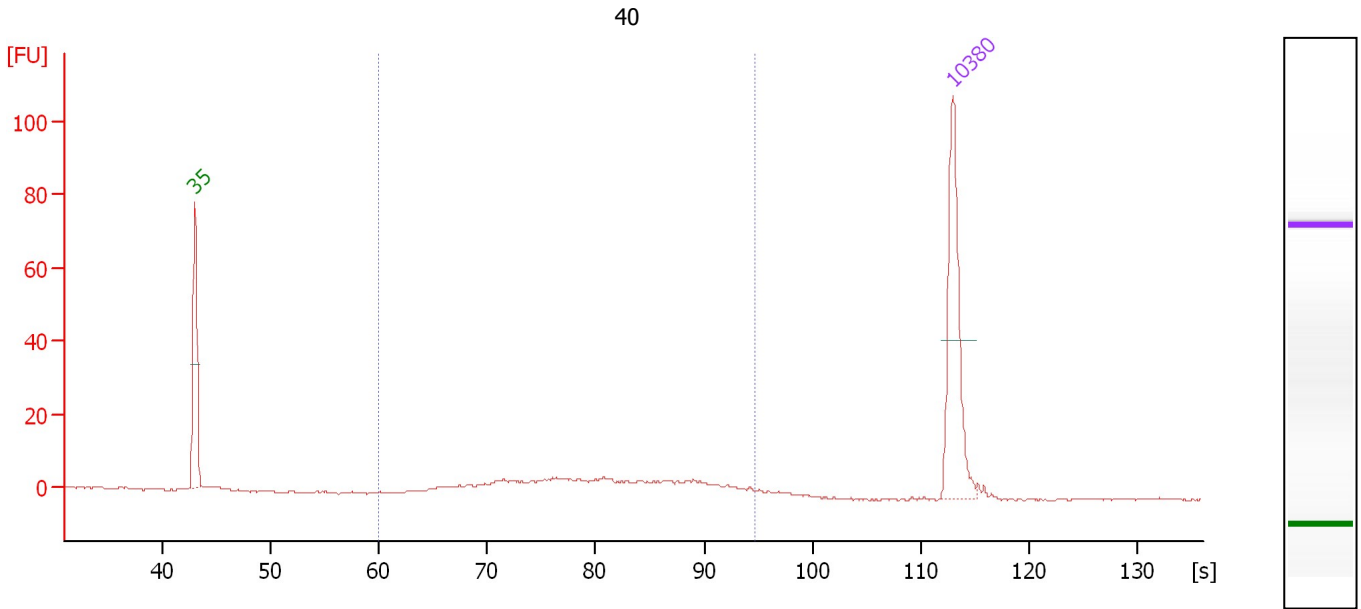
**Region table for sample 10 : 38**

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	385	2,335.73	2,125.7	10,071.9	99	28.9

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**Overall Results for sample 11 : 40**

Number of peaks found: 0                      Corr. Area 1: 106.6  
 Noise: 0.2

**Peak table for sample 11 : 40**

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 : 40**

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	494	100.78	106.6	355.2	91	32.7

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**Gel Image**

