

Assay Class: High Sensitivity DNA Assay  
Data Path: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2020-01-28\_001.xad

Created: 1/28/2020 11:16:39 AM  
Modified: 1/28/2020 11:43:31 AM

**Electrophoresis File Run Summary**

Instrument Information:

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

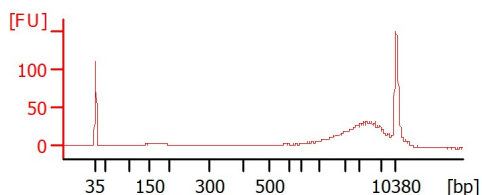
Assay Information:

Assay Origin Path: C:\Program Files (x86)\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

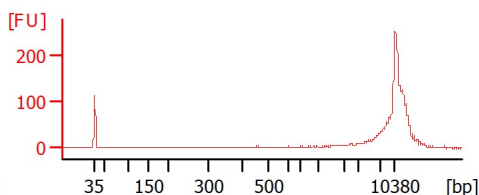
Chip Information:

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

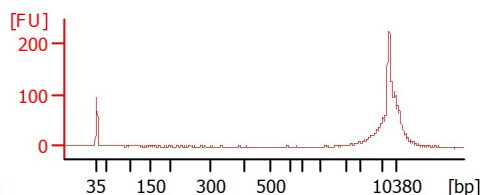
**AcK27 CUT&RUN**



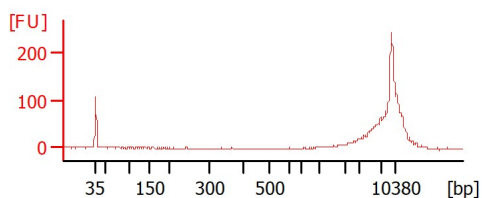
**Input Control**



**Input IgG**



**Input K27**



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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Ack27 CUT&RUN		<input type="checkbox"/>	✓			
Input Control		<input type="checkbox"/>	✓			
Input IgG		<input type="checkbox"/>	✓			
Input K27		<input type="checkbox"/>	✓			
sample 5		<input type="checkbox"/>				
sample 6		<input type="checkbox"/>				
sample 7		<input type="checkbox"/>				
sample 8		<input type="checkbox"/>				
sample 9		<input type="checkbox"/>				
sample 10		<input type="checkbox"/>				
sample 11		<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

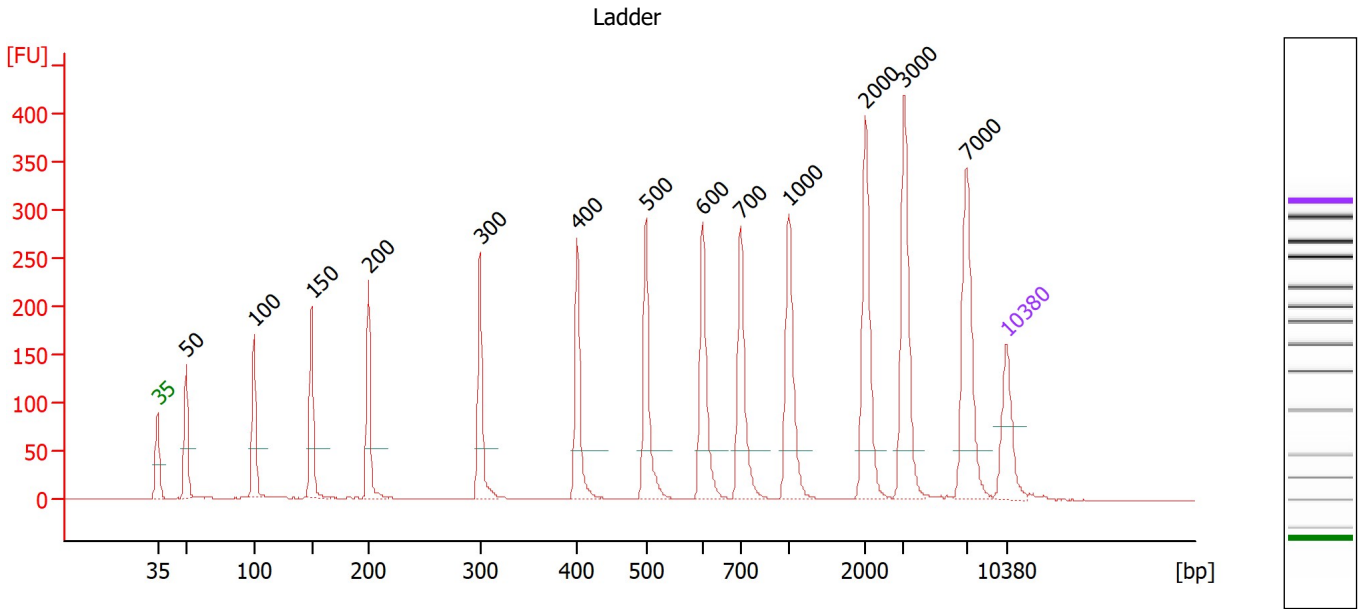
**Ladder**

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

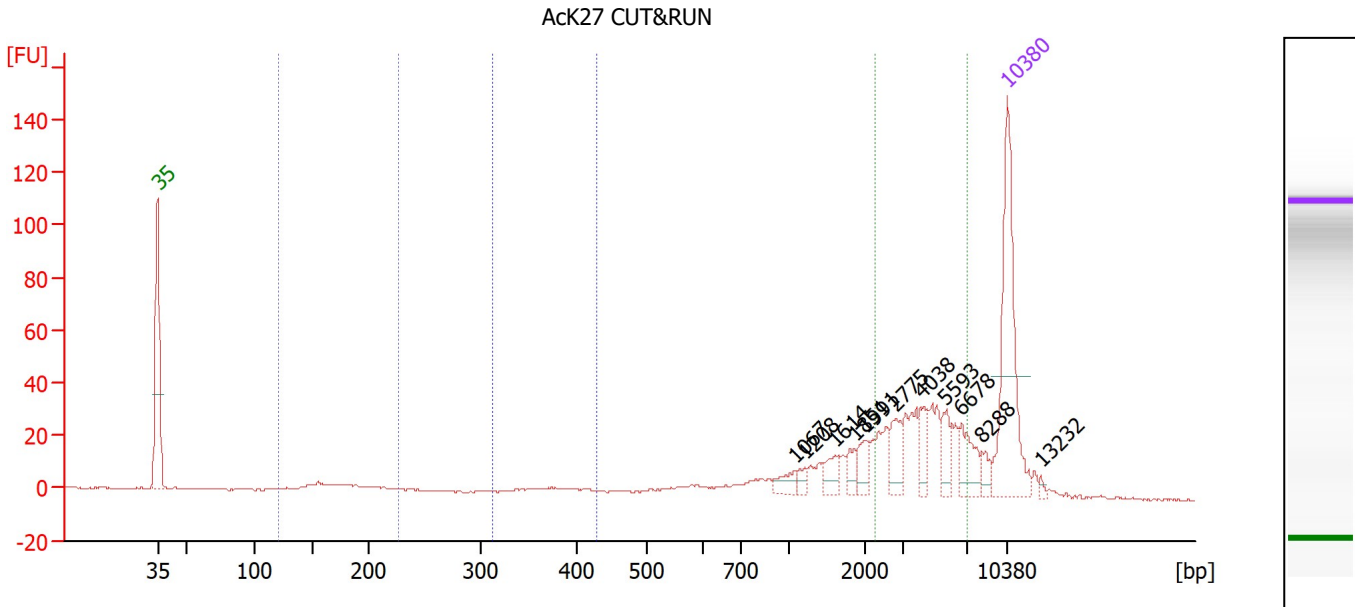
**Peak table for Ladder**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	50	150.00	4,545.5	Ladder Peak
3	100	150.00	2,272.7	Ladder Peak
4	150	150.00	1,515.2	Ladder Peak
5	200	150.00	1,136.4	Ladder Peak
6	300	150.00	757.6	Ladder Peak
7	400	150.00	568.2	Ladder Peak
8	500	150.00	454.5	Ladder Peak
9	600	150.00	378.8	Ladder Peak
10	700	150.00	324.7	Ladder Peak
11	1,000	150.00	227.3	Ladder Peak
12	2,000	150.00	113.6	Ladder Peak
13	3,000	150.00	75.8	Ladder Peak
14	7,000	150.00	32.5	Ladder Peak
15	10,380	75.00	10.9	Upper Marker

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**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : Ack27 CUT&RUN**

Number of peaks found: 11                      Corr. Area 2: 18.1  
 Noise: 0.2    Corr. Area 3: 218.8  
 Corr. Area 1: 31.9

**Peak table for sample 1 : Ack27 CUT&RUN**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	1,067	8.25	11.7	
3	1,208	4.58	5.7	
4	1,614	9.54	9.0	
5	1,851	7.49	6.1	
6	1,991	9.19	7.0	
7	2,775	14.68	8.0	
8	4,038	10.48	3.9	
9	5,593	12.91	3.5	
10	6,678	18.84	4.3	
11	8,288	6.11	1.1	
12	10,380	75.00	10.9	Upper Marker
13	13,232	0.00	0.0	

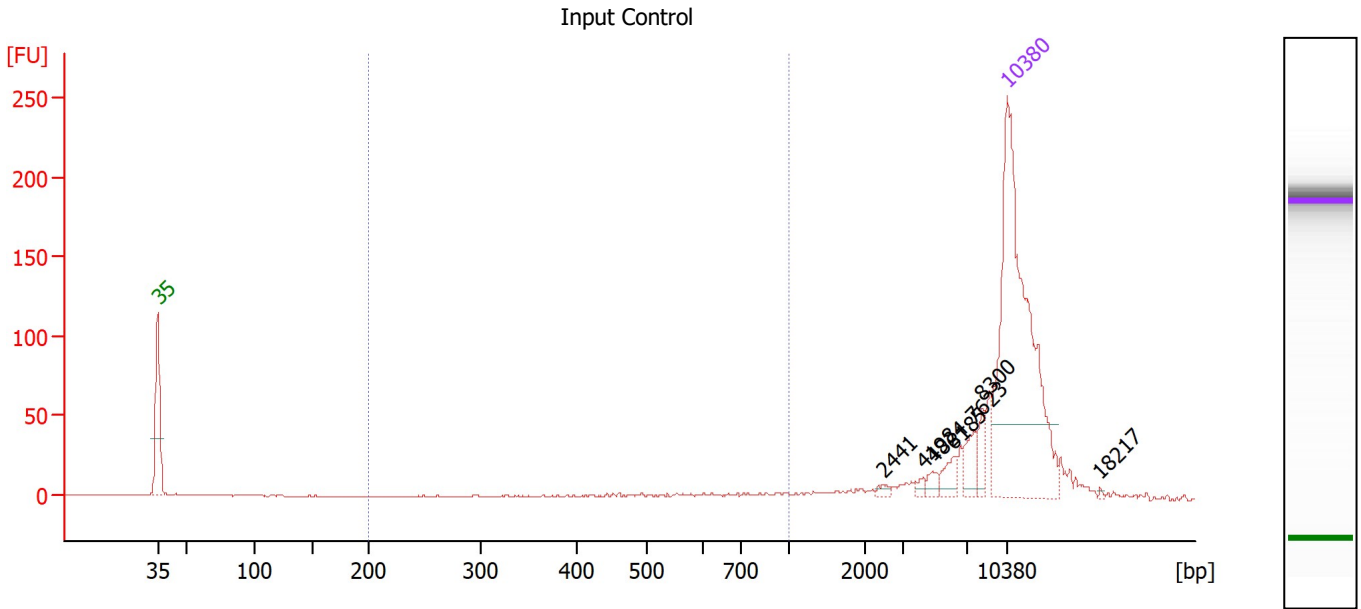
**Region table for sample 1 : Ack27 CUT&RUN**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
122	227	31.9	6	175	14.9	28.18	251.4	Blue
313	429	18.1	4	374	7.7	12.51	51.0	Green
2,239	7,048	218.8	43	4,260	33.4	109.56	42.4	Red

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**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : Input Control**

Number of peaks found: 7                      Corr. Area 1: 28.2  
 Noise: 0.2

**Peak table for sample 2 : Input Control**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	2,441	1.17	0.7	
3	4,198	1.36	0.5	
4	4,824	2.26	0.7	
5	6,185	4.01	1.0	
6	7,623	5.65	1.1	
7	8,300	4.32	0.8	
8	10,380	75.00	10.9	Upper Marker
9	18,217	0.00	0.0	

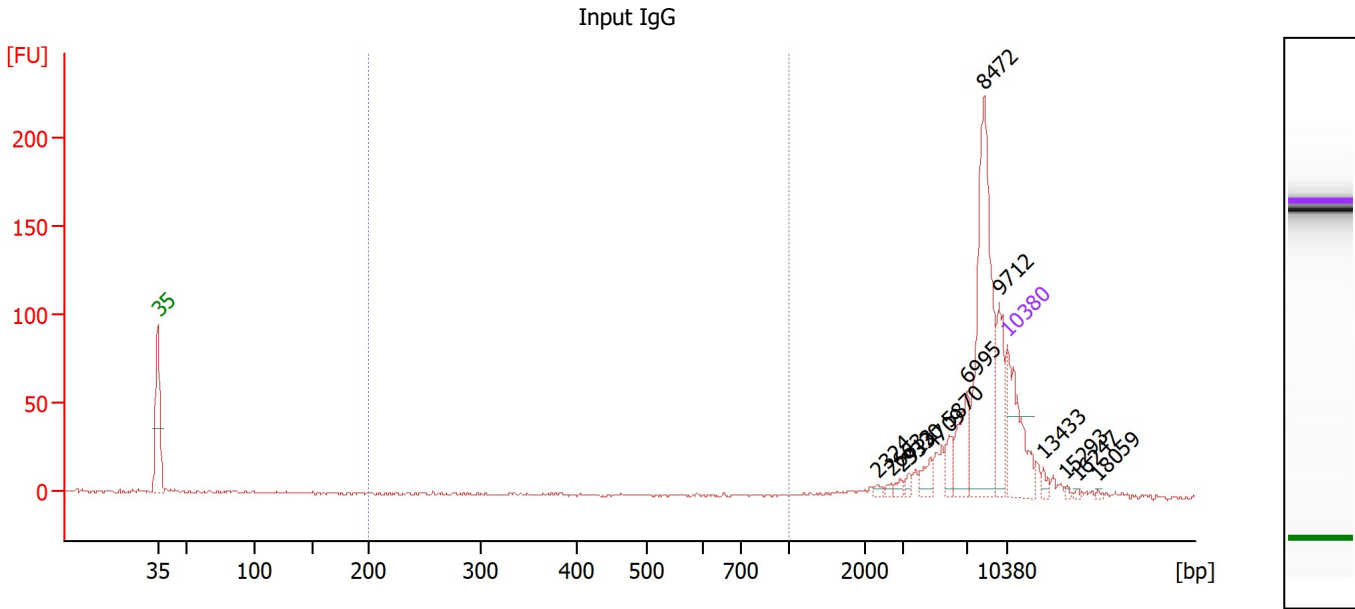
**Region table for sample 2 : Input Control**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	28.2	10	638	28.4	4.99	13.3	Blue

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**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : Input IgG**

Number of peaks found: 13      Corr. Area 1: 2.0  
 Noise: 0.5

**Peak table for sample 3 : Input IgG**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	2,324	3.74	2.4	
3	2,663	3.76	2.1	
4	2,913	5.39	2.8	
5	3,330	5.27	2.4	
6	4,709	14.44	4.6	
7	5,870	15.67	4.0	
8	6,995	47.01	10.2	
9	8,472	206.83	37.0	
10	9,712	52.21	8.1	
11	10,380	75.00	10.9	Upper Marker
12	13,433	0.00	0.0	
13	15,293	0.00	0.0	
14	16,247	0.00	0.0	
15	18,059	0.00	0.0	

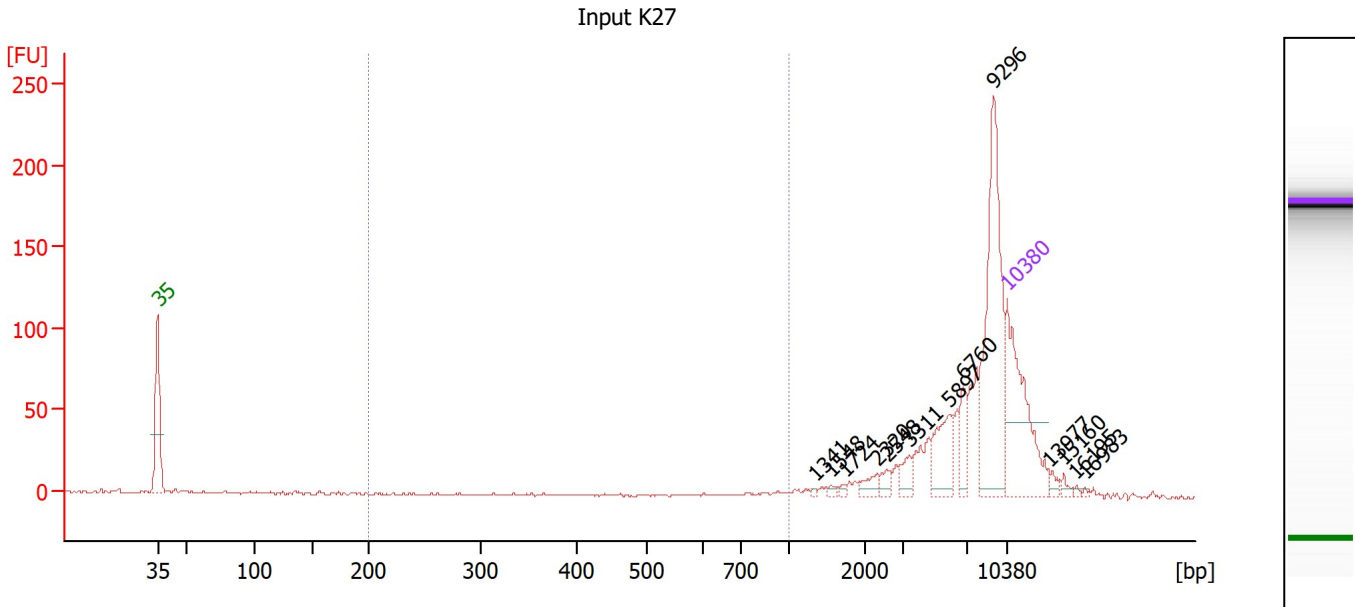
**Region table for sample 3 : Input IgG**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	2.0	0	503	47.7	2.16	9.0	Blue

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**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : Input K27**

Number of peaks found: 13      Corr. Area 1: 33.1  
 Noise: 0.6

**Peak table for sample 4 : Input K27**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	1,341	1.24	1.4	
3	1,548	2.38	2.3	
4	1,724	1.80	1.6	
5	2,320	6.93	4.5	
6	2,548	5.96	3.5	
7	3,311	9.23	4.2	
8	5,897	31.80	8.2	
9	6,760	18.11	4.1	
10	9,296	117.69	19.2	
11	10,380	75.00	10.9	Upper Marker
12	13,977	0.00	0.0	
13	15,160	0.00	0.0	
14	16,195	0.00	0.0	
15	16,983	0.00	0.0	

**Region table for sample 4 : Input K27**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	33.1	4	604	37.9	17.34	57.7	Blue



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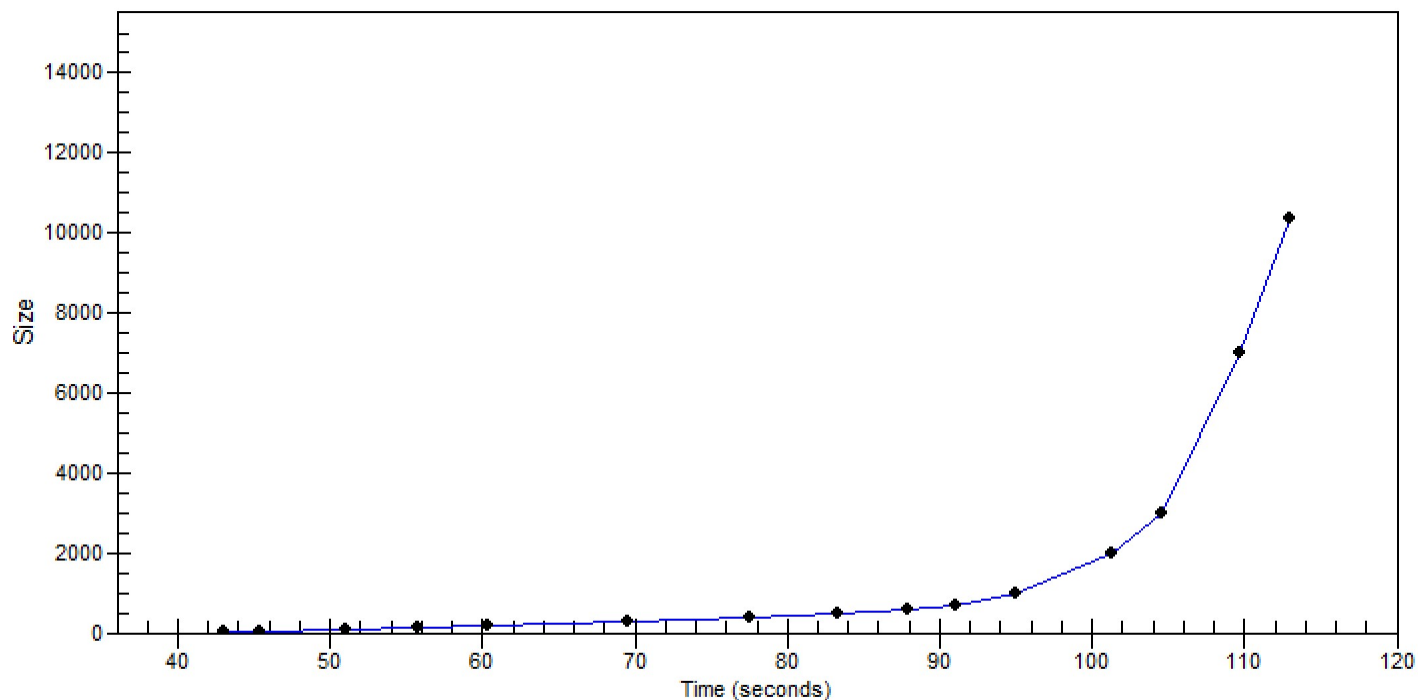
**Gel Image**

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**Curves**

**Standard Curve**



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**Invalid Samples**

Sample 5 has not been run, no results available.

Sample 6 has not been run, no results available.

Sample 7 has not been run, no results available.

Sample 8 has not been run, no results available.

Sample 9 has not been run, no results available.

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.

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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: 5)		Instrument	Run		1/28/2020 11:37:58 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: Z:\XADs\2020-01-28\Bioanalyze r1_High Sensitivity DNA Assay_2020-01-28_001.xad)		Instrument	Run		1/28/2020 11:16:44 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		1/28/2020 11:16:44 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		1/28/2020 11:16:44 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		1/28/2020 11:16:44 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		1/28/2020 11:16:44 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		1/28/2020 11:16:44 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		1/28/2020 11:16:44 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB