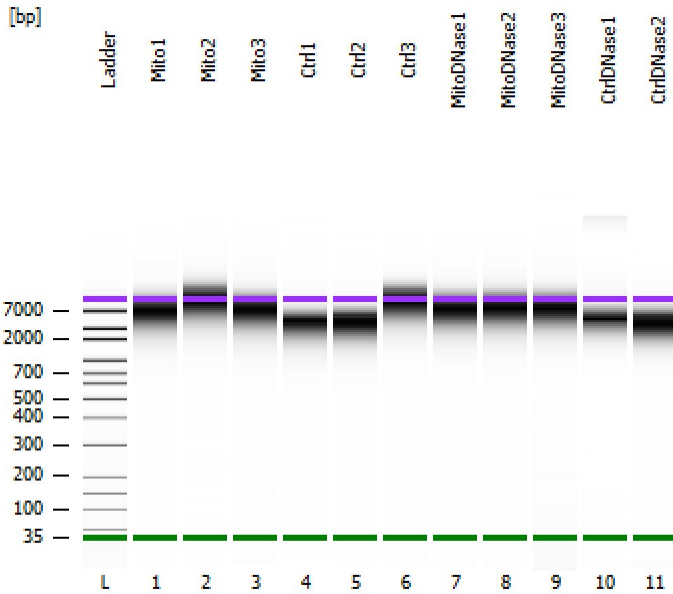


Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-23_001.xad

Created: 1/23/2020 10:28:00 AM
Modified: 1/23/2020 11:09:25 AM

Electrophoresis File Run Summary



Instrument Information:

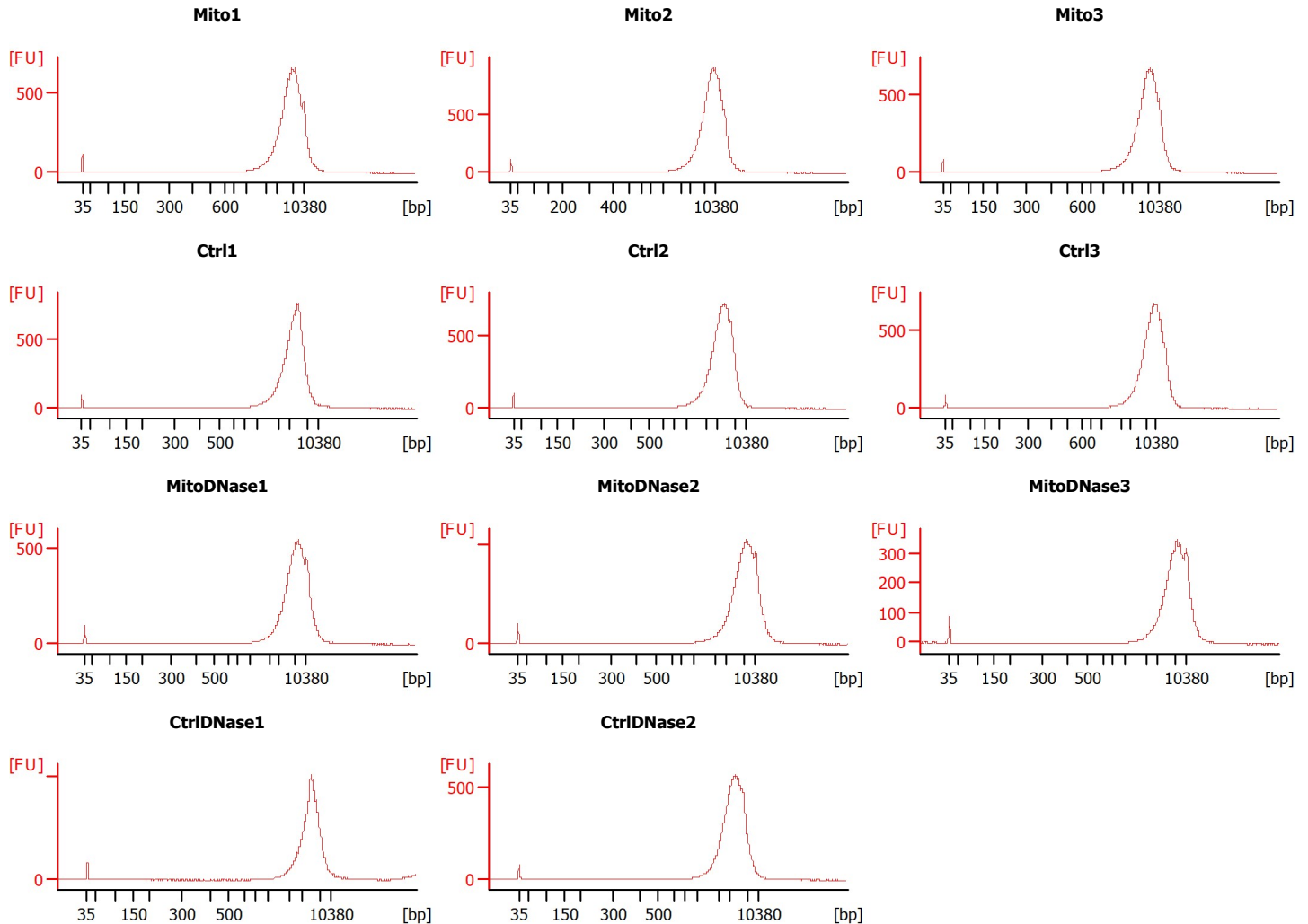
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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:



Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-23_001.xad

Created: 1/23/2020 10:28:00 AM
 Modified: 1/23/2020 11:09:25 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Mito1		<input type="checkbox"/>	✓			
Mito2		<input type="checkbox"/>	✓			
Mito3		<input type="checkbox"/>	✓			
Ctrl1		<input type="checkbox"/>	✓			
Ctrl2		<input type="checkbox"/>	✓			
Ctrl3		<input type="checkbox"/>	✓			
MitoDNase1		<input type="checkbox"/>	✓			
MitoDNase2		<input type="checkbox"/>	✓			
MitoDNase3		<input type="checkbox"/>	✓			
CtrlDNase1		<input type="checkbox"/>	✓			
CtrlDNase2		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-23_001.xad

Created: 1/23/2020 10:28:00 AM
 Modified: 1/23/2020 11:09:25 AM

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

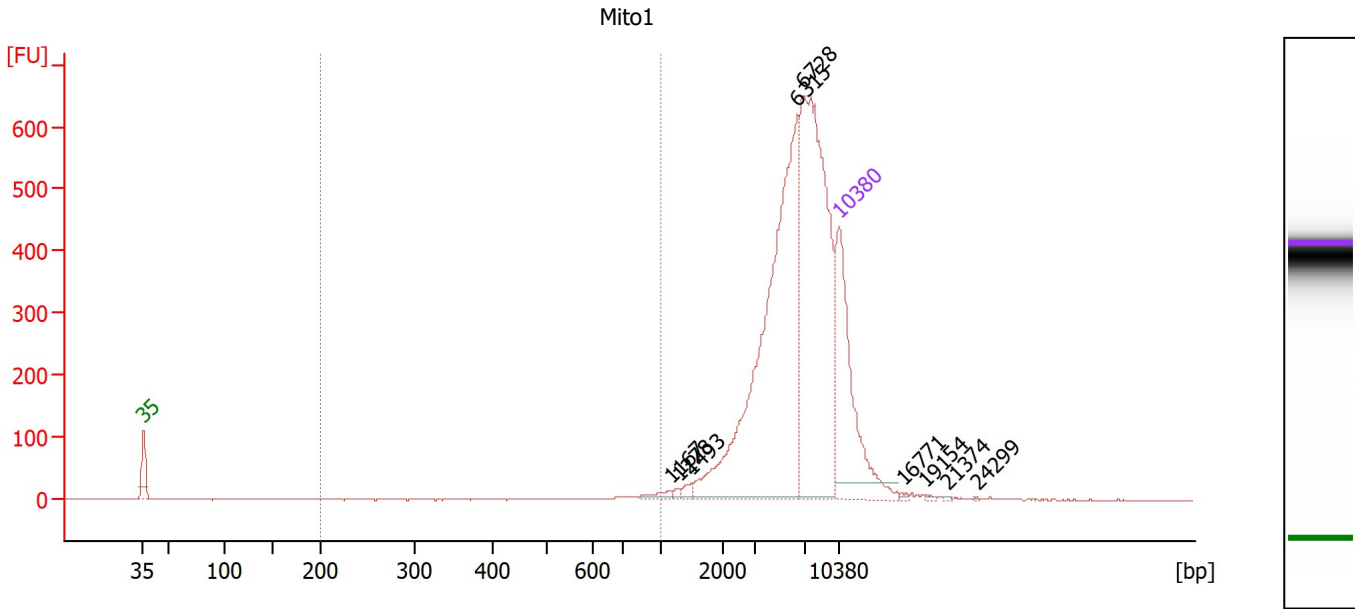
Ladder

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

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-23_001.xad

Created: 1/23/2020 10:28:00 AM
 Modified: 1/23/2020 11:09:25 AM

Electropherogram Summary



Overall Results for sample 1 : Mito1

Number of peaks found: 9 Corr. Area 1: 54.4
 Noise: 0.3

Peak table for sample 1 : Mito1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	1,167	3.73	4.8	
3	1,278	1.46	1.7	
4	1,493	2.82	2.9	
5	6,315	233.24	56.0	
6	6,728	197.55	44.5	
7	10,380	75.00	10.9	Upper Marker
8	16,771	0.00	0.0	
9	19,154	0.00	0.0	
10	21,374	0.00	0.0	
11	24,299	0.00	0.0	

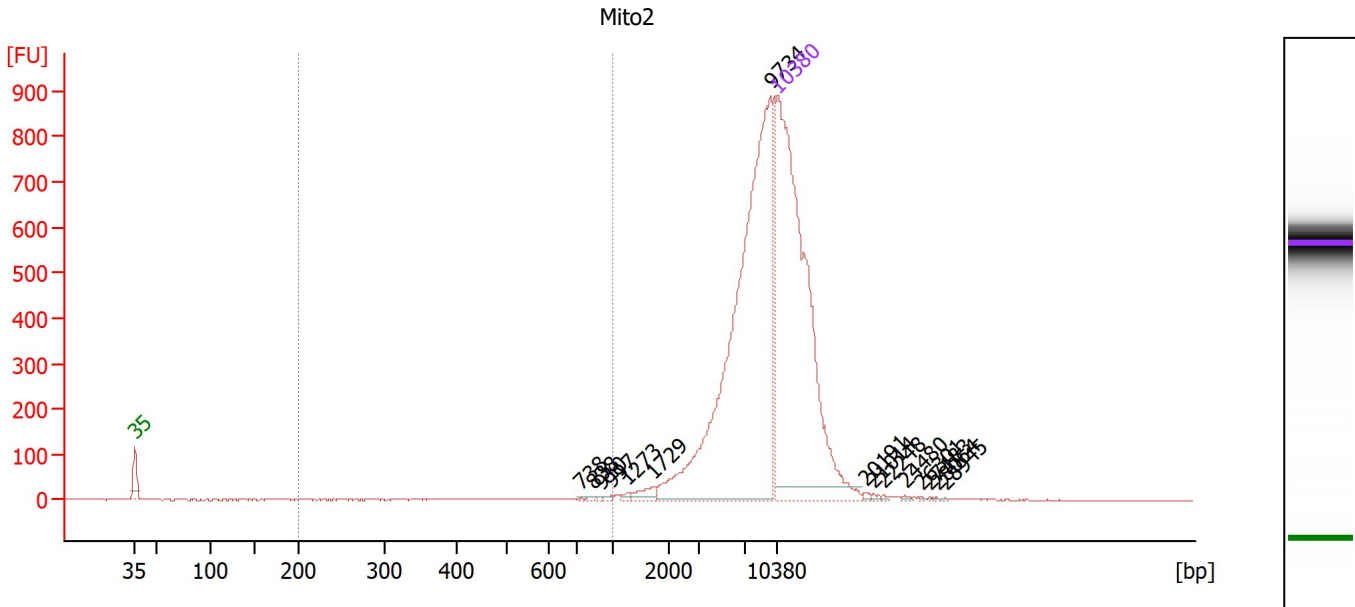
Region table for sample 1 : Mito1

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	54.4	1	738	24.5	6.89	15.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-23_001.xad

Created: 1/23/2020 10:28:00 AM
 Modified: 1/23/2020 11:09:25 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Mito2

Number of peaks found: 15 Corr. Area 1: 55.8
 Noise: 0.5

Peak table for sample 2 : Mito2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	738	0.13	0.3	
3	838	0.20	0.4	
4	910	0.16	0.3	
5	997	0.28	0.4	
6	1,273	0.39	0.5	
7	1,729	1.74	1.5	
8	9,734	93.20	14.5	
9	10,380	75.00	10.9	Upper Marker
10	20,191	0.00	0.0	
11	21,014	0.00	0.0	
12	22,248	0.00	0.0	
13	24,480	0.00	0.0	
14	26,301	0.00	0.0	
15	27,183	0.00	0.0	
16	28,064	0.00	0.0	
17	28,945	0.00	0.0	

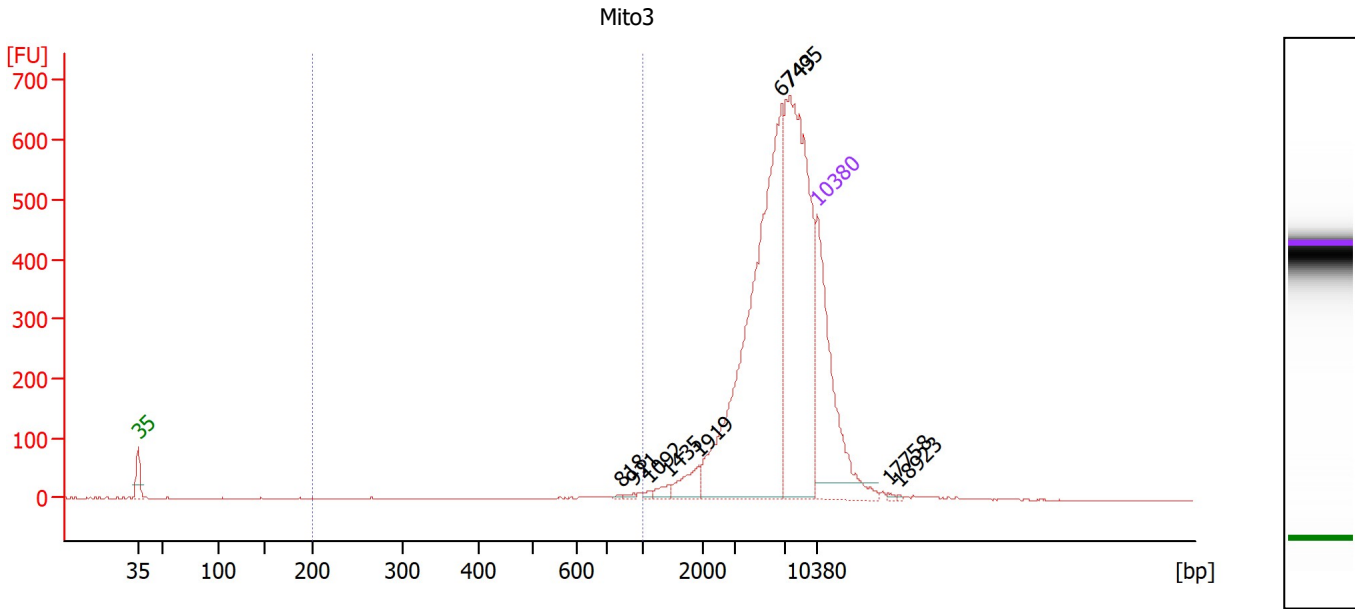
Region table for sample 2 : Mito2

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	55.8	1	689	28.6	1.87	4.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-23_001.xad

Created: 1/23/2020 10:28:00 AM
 Modified: 1/23/2020 11:09:25 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Mito3

Number of peaks found: 9 Corr. Area 1: 73.5
 Noise: 0.6

Peak table for sample 3 : Mito3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	818	0.77	1.4	
3	921	1.19	2.0	
4	1,092	1.46	2.0	
5	1,435	3.72	3.9	
6	1,919	11.12	8.8	
7	6,743	224.44	50.4	
8	7,495	170.00	34.4	
9	10,380	75.00	10.9	Upper Marker
10	17,758	0.00	0.0	
11	18,923	0.00	0.0	

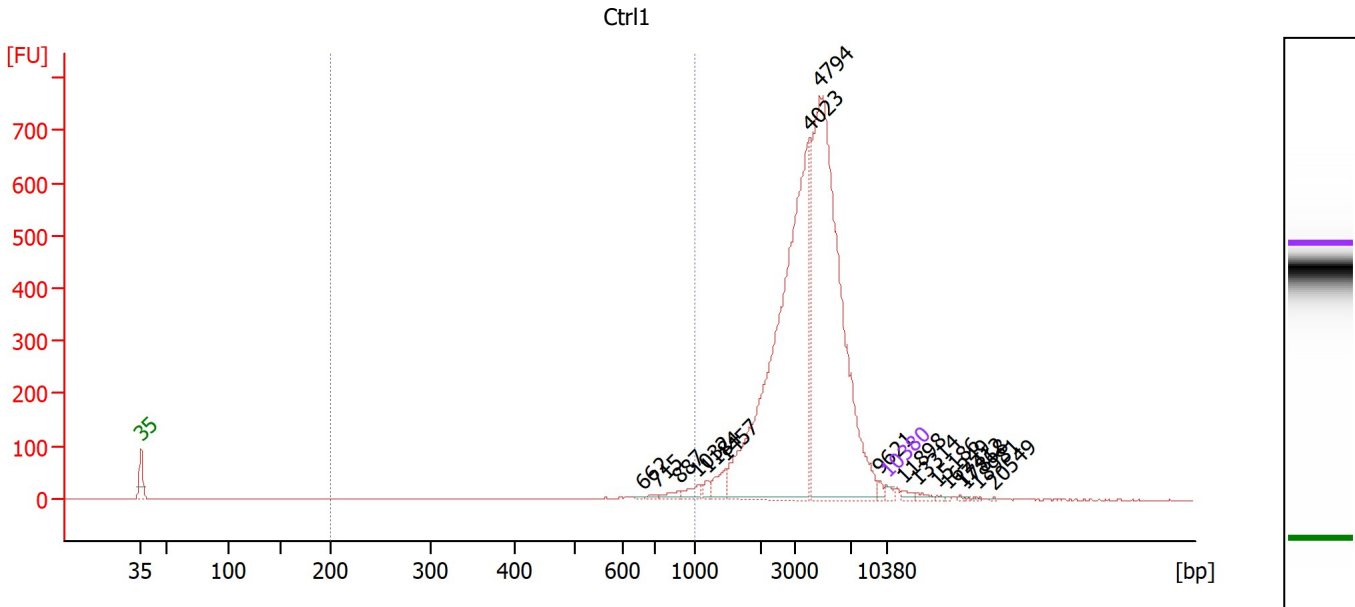
Region table for sample 3 : Mito3

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	73.5	2	675	32.4	8.81	25.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-23_001.xad

Created: 1/23/2020 10:28:00 AM
 Modified: 1/23/2020 11:09:25 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Ctrl1

Number of peaks found: 17 Corr. Area 1: 112.6
 Noise: 0.5

Peak table for sample 4 : Ctrl1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	662	28.56	65.3	
3	715	47.97	101.7	
4	887	122.61	209.5	
5	1,032	195.99	287.8	
6	1,184	107.89	138.0	
7	1,457	293.07	304.7	
8	4,023	8,669.36	3,265.4	
9	4,794	8,633.68	2,728.7	
10	9,621	71.23	11.2	
11	10,380	75.00	10.9	Upper Marker
12	11,898	0.00	0.0	
13	13,314	0.00	0.0	
14	15,186	0.00	0.0	
15	16,249	0.00	0.0	
16	17,412	0.00	0.0	
17	17,868	0.00	0.0	
18	18,981	0.00	0.0	
19	20,549	0.00	0.0	

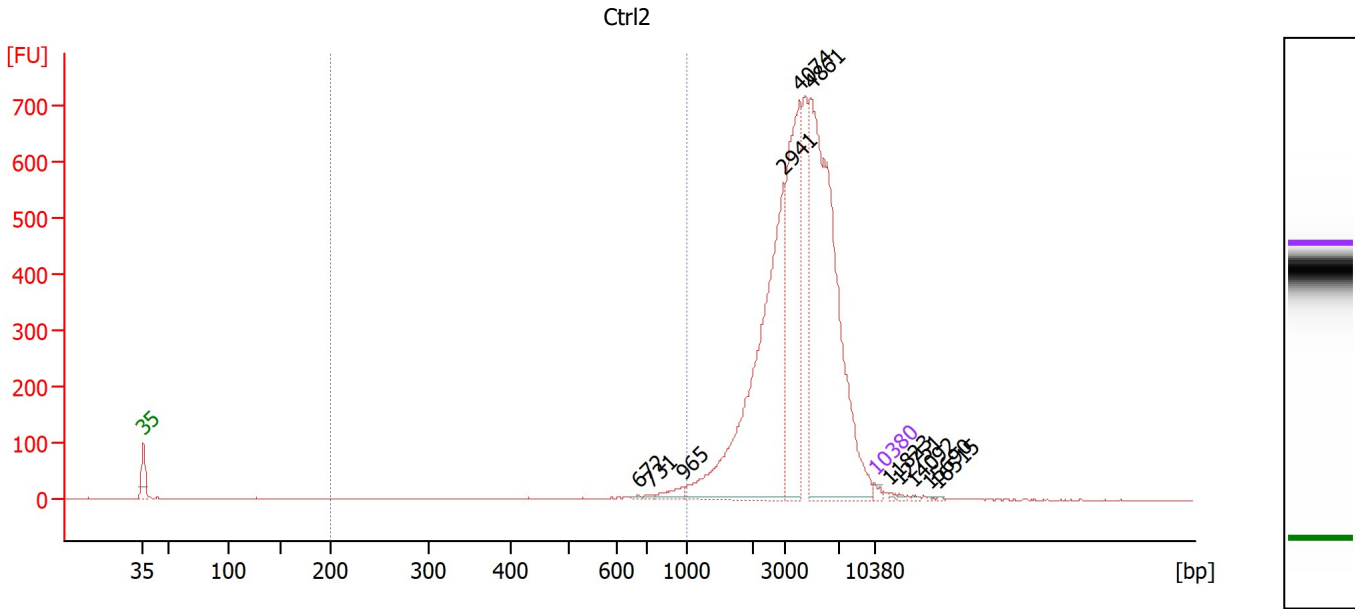
Region table for sample 4 : Ctrl1

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	112.6	2	734	26.3	527.73	1,273.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-23_001.xad

Created: 1/23/2020 10:28:00 AM
 Modified: 1/23/2020 11:09:25 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Ctrl2

Number of peaks found: 11 Corr. Area 1: 120.5
 Noise: 1.0

Peak table for sample 5 : Ctrl2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	672	32.08	72.4	
3	731	46.17	95.8	
4	965	178.61	280.3	
5	2,941	5,808.26	2,992.7	
6	4,074	3,402.78	1,265.4	
7	4,861	7,092.86	2,211.0	
8	10,380	75.00	10.9	Upper Marker
9	11,823	0.00	0.0	
10	12,751	0.00	0.0	
11	14,092	0.00	0.0	
12	15,690	0.00	0.0	
13	16,515	0.00	0.0	

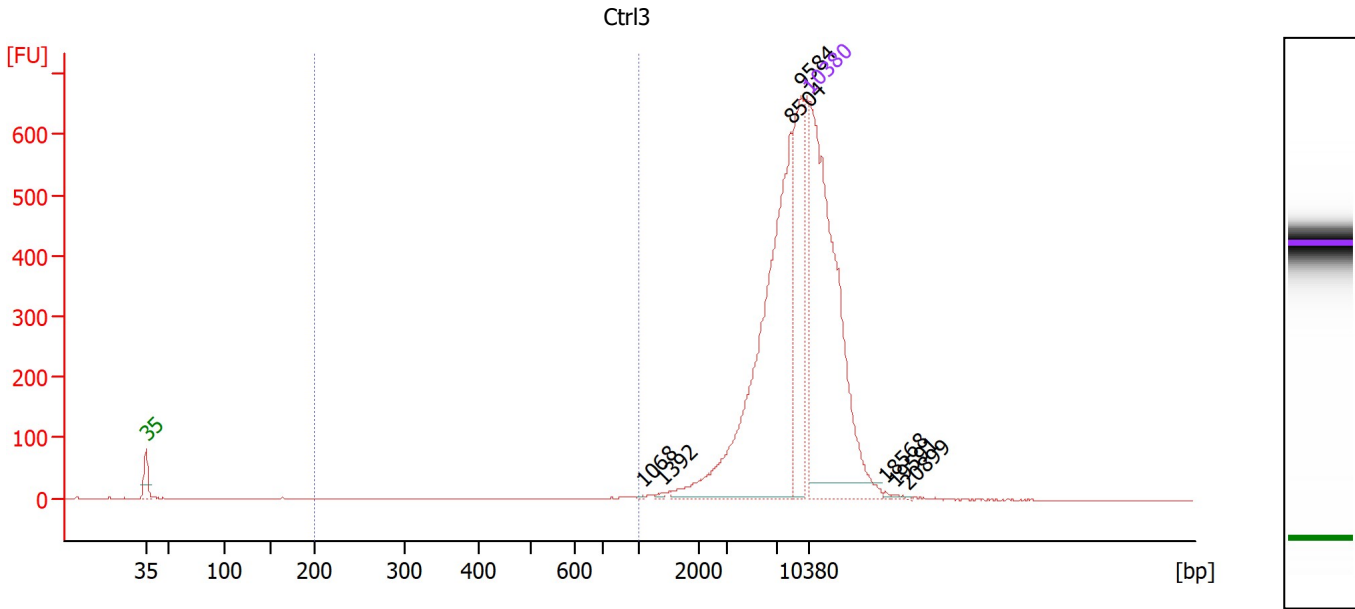
Region table for sample 5 : Ctrl2

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	120.5	2	718	29.2	509.36	1,313.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-23_001.xad

Created: 1/23/2020 10:28:00 AM
 Modified: 1/23/2020 11:09:25 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Ctrl3

Number of peaks found: 7 Corr. Area 1: 41.4
 Noise: 0.8

Peak table for sample 6 : Ctrl3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	1,068	0.21	0.3	
3	1,392	0.45	0.5	
4	8,504	81.43	14.5	
5	9,584	26.33	4.2	
6	10,380	75.00	10.9	Upper Marker
7	18,568	0.00	0.0	
8	19,591	0.00	0.0	
9	20,899	0.00	0.0	

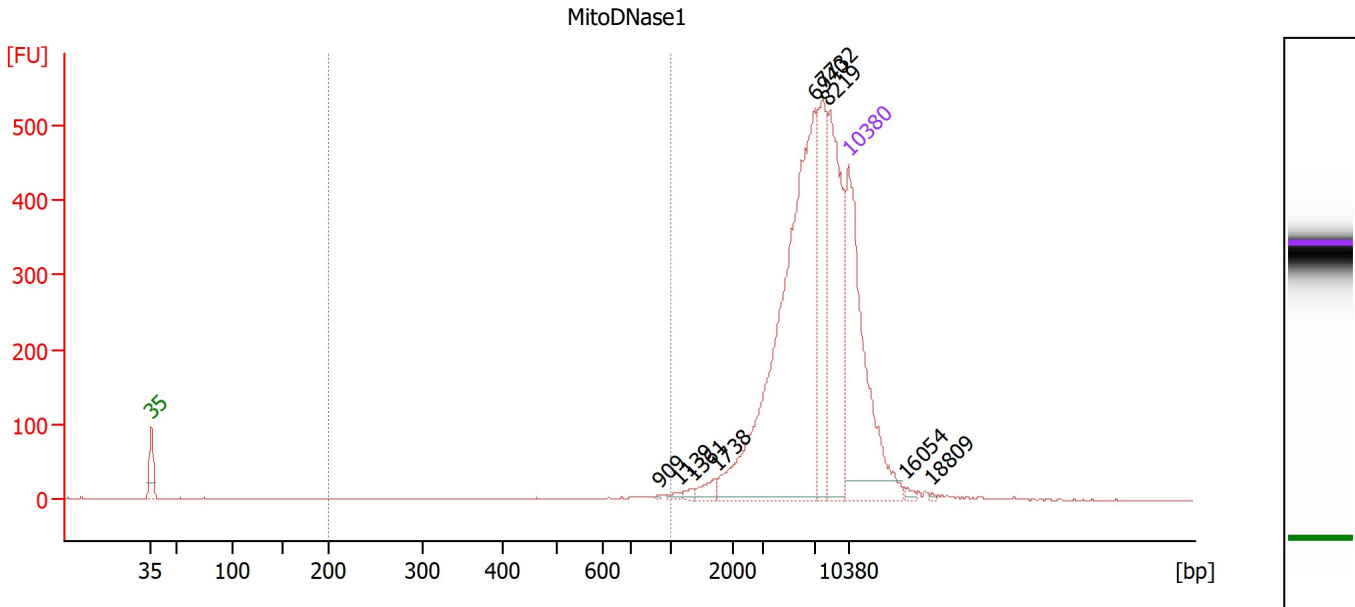
Region table for sample 6 : Ctrl3

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	41.4	1	627	35.7	2.18	6.8	■

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-23_001.xad

Created: 1/23/2020 10:28:00 AM
 Modified: 1/23/2020 11:09:25 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : MitoDNase1

Number of peaks found: 9 Corr. Area 1: 44.0
 Noise: 0.5

Peak table for sample 7 : MitoDNase1

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	909	0.45	0.7	
3	1,139	1.36	1.8	
4	1,361	1.83	2.0	
5	1,738	4.27	3.7	
6	6,940	180.61	39.4	
7	7,732	44.54	8.7	
8	8,219	70.09	12.9	
9	10,380	75.00	10.9	Upper Marker
10	16,054	0.00	0.0	
11	18,809	0.00	0.0	

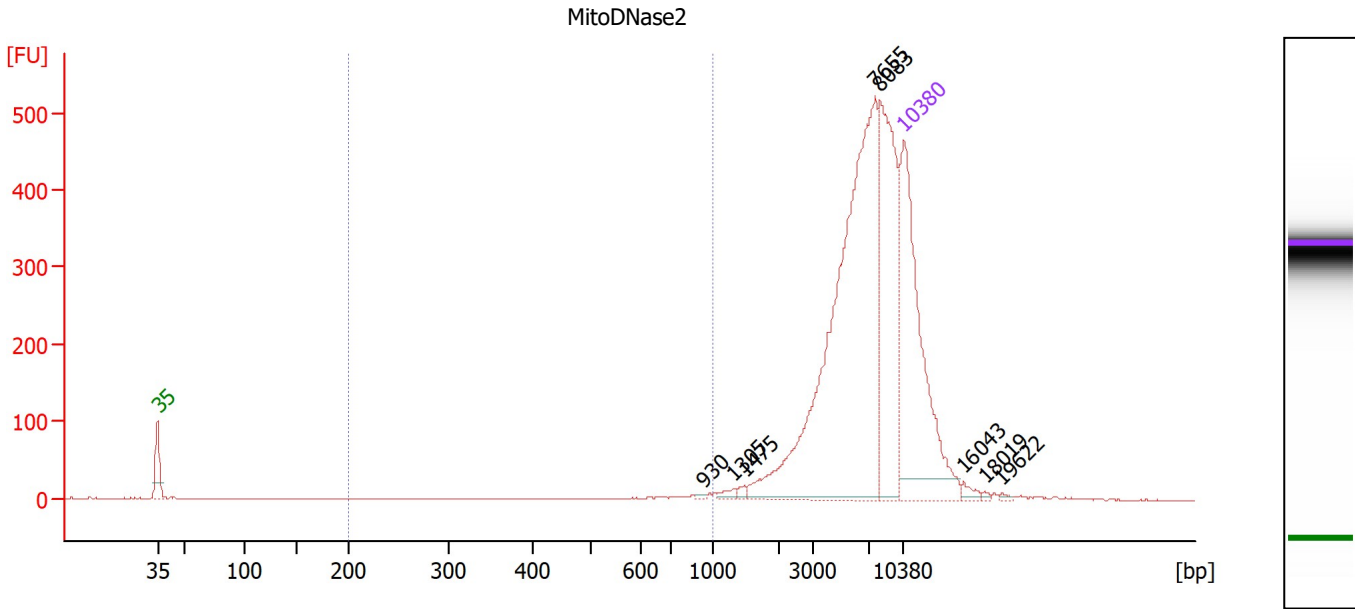
Region table for sample 7 : MitoDNase1

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	44.0	1	676	32.3	5.08	14.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-23_001.xad

Created: 1/23/2020 10:28:00 AM
 Modified: 1/23/2020 11:09:25 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : MitoDNase2

Number of peaks found: 8 Corr. Area 1: 33.3
 Noise: 0.5

Peak table for sample 8 : MitoDNase2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	930	0.56	0.9	
3	1,305	1.87	2.2	
4	1,475	1.23	1.3	
5	7,655	179.88	35.6	
6	8,083	67.97	12.7	
7	10,380	75.00	10.9	Upper Marker
8	16,043	0.00	0.0	
9	18,019	0.00	0.0	
10	19,622	0.00	0.0	

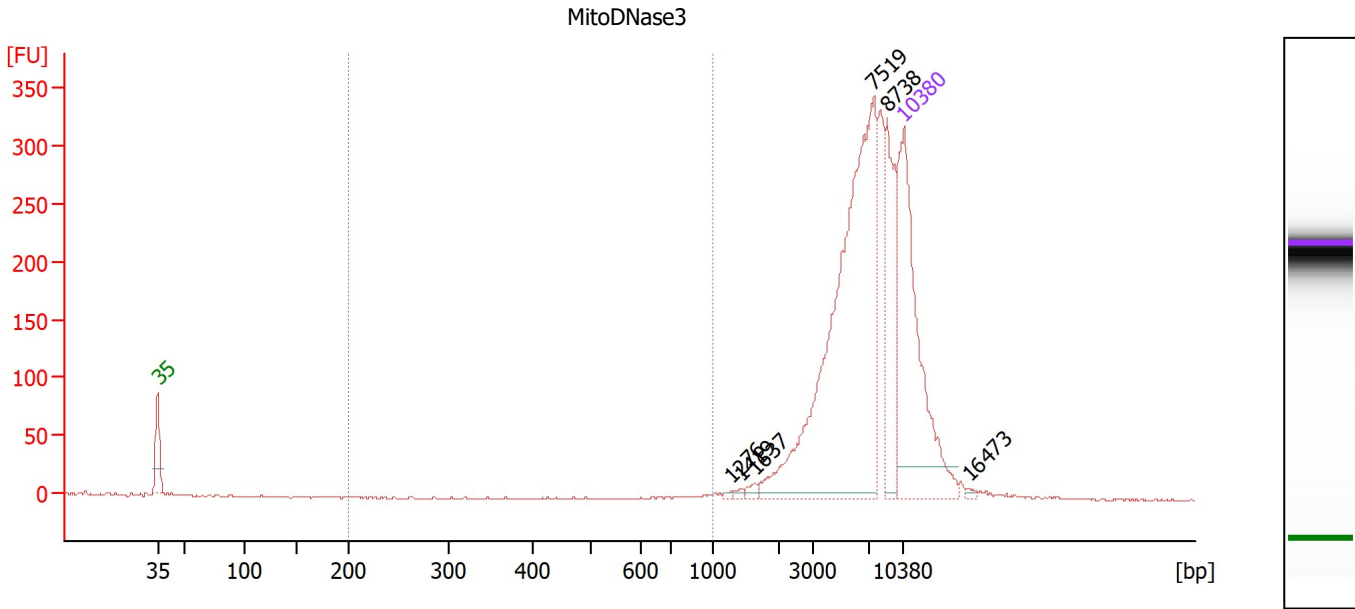
Region table for sample 8 : MitoDNase2

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	33.3	1	755	22.7	3.33	7.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-23_001.xad

Created: 1/23/2020 10:28:00 AM
 Modified: 1/23/2020 11:09:25 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : MitoDNase3

Number of peaks found: 6 Corr. Area 1: 3.5
 Noise: 0.6

Peak table for sample 9 : MitoDNase3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	1,276	0.67	0.8	
3	1,419	0.99	1.1	
4	1,637	1.85	1.7	
5	7,519	170.12	34.3	
6	8,738	35.62	6.2	
7	10,380	75.00	10.9	Upper Marker
8	16,473	0.00	0.0	

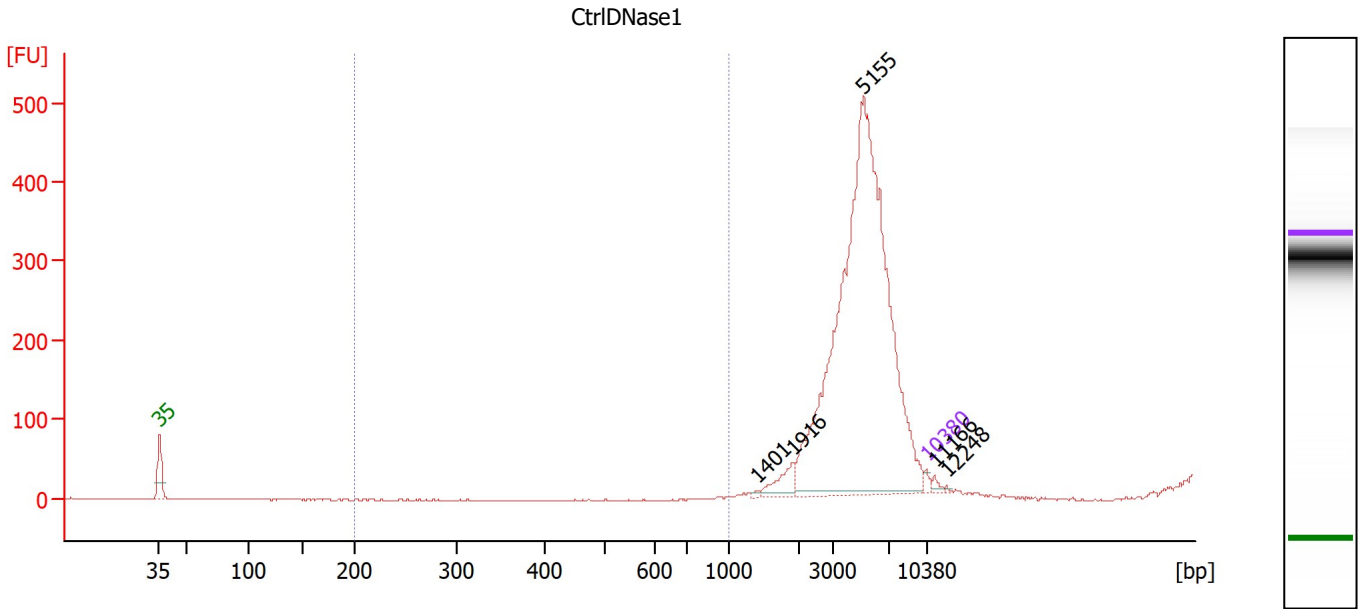
Region table for sample 9 : MitoDNase3

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	3.5	0	916	7.7	0.49	0.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-23_001.xad

Created: 1/23/2020 10:28:00 AM
 Modified: 1/23/2020 11:09:25 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : CtrlDNase1

Number of peaks found: 5 Corr. Area 1: 0.0
 Noise: 0.5

Peak table for sample 10 : CtrlDNase1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	1,401	41.50	44.9	
3	1,916	423.35	334.8	
4	5,155	13,202.88	3,880.4	
5	10,380	75.00	10.9	Upper Marker
6	11,166	0.00	0.0	
7	12,248	0.00	0.0	

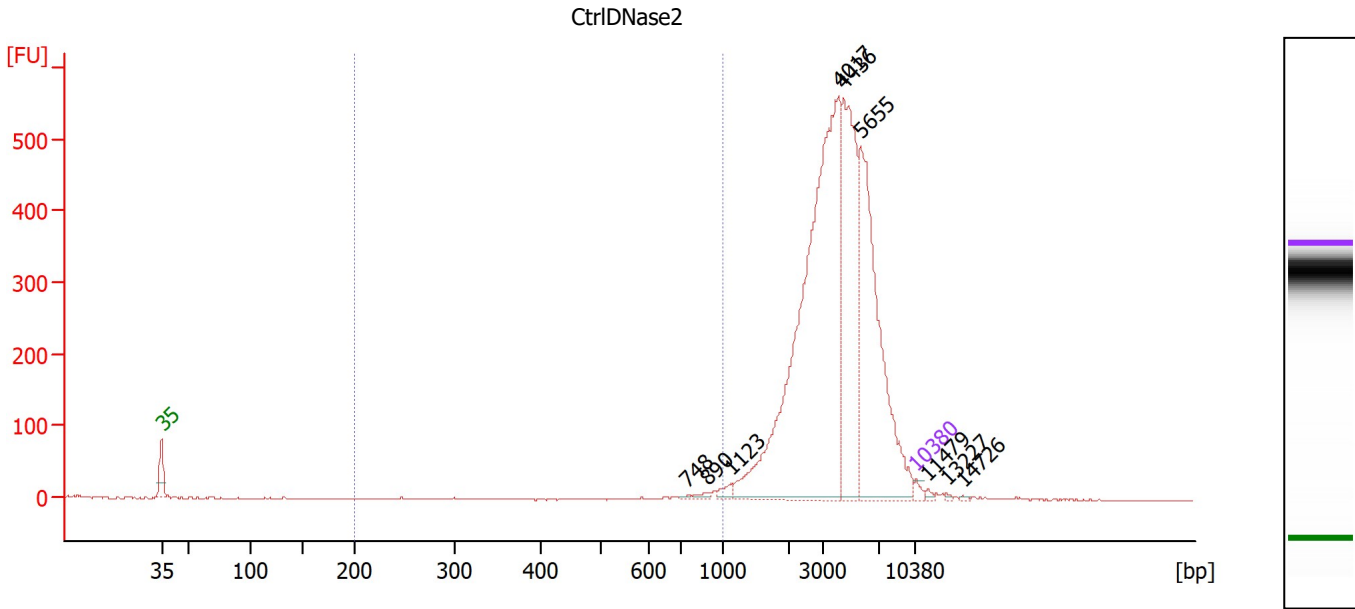
Region table for sample 10 : CtrlDNase1

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	0.0	0	0	0.0	0.00	0.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-23_001.xad

Created: 1/23/2020 10:28:00 AM
 Modified: 1/23/2020 11:09:25 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : CtrlDNase2

Number of peaks found: 9 Corr. Area 1: 34.7
 Noise: 0.9

Peak table for sample 11 : CtrlDNase2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	748	33.94	68.8	
3	890	71.21	121.2	
4	1,123	131.56	177.4	
5	4,017	9,377.78	3,537.1	
6	4,436	3,311.33	1,131.0	
7	5,655	4,497.04	1,205.0	
8	10,380	75.00	10.9	Upper Marker
9	11,479	0.00	0.0	
10	13,227	0.00	0.0	
11	14,726	0.00	0.0	

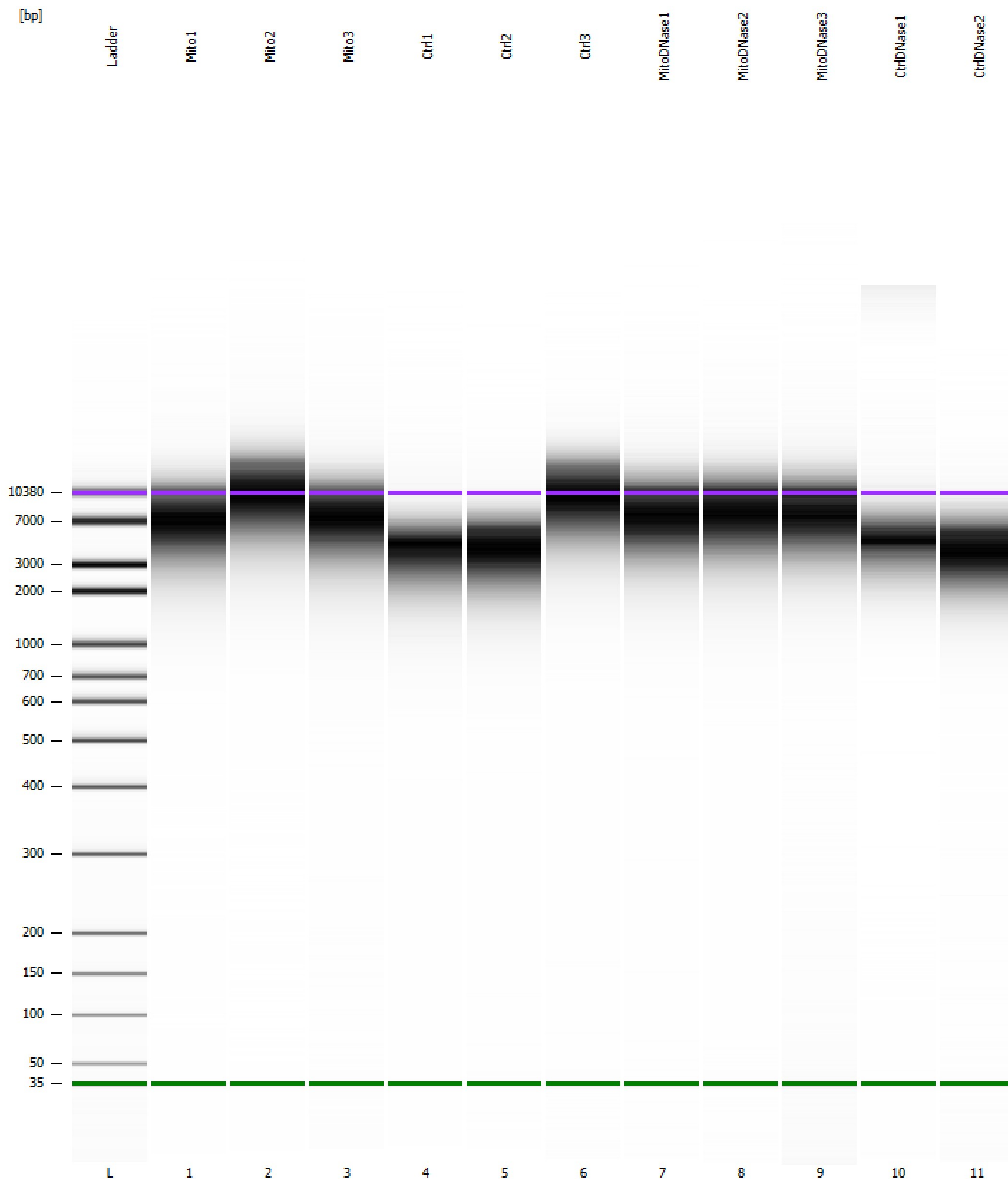
Region table for sample 11 : CtrlDNase2

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	34.7	1	858	12.9	173.12	314.7	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-23_001.xad

Created: 1/23/2020 10:28:00 AM
Modified: 1/23/2020 11:09:25 AM

Gel Image

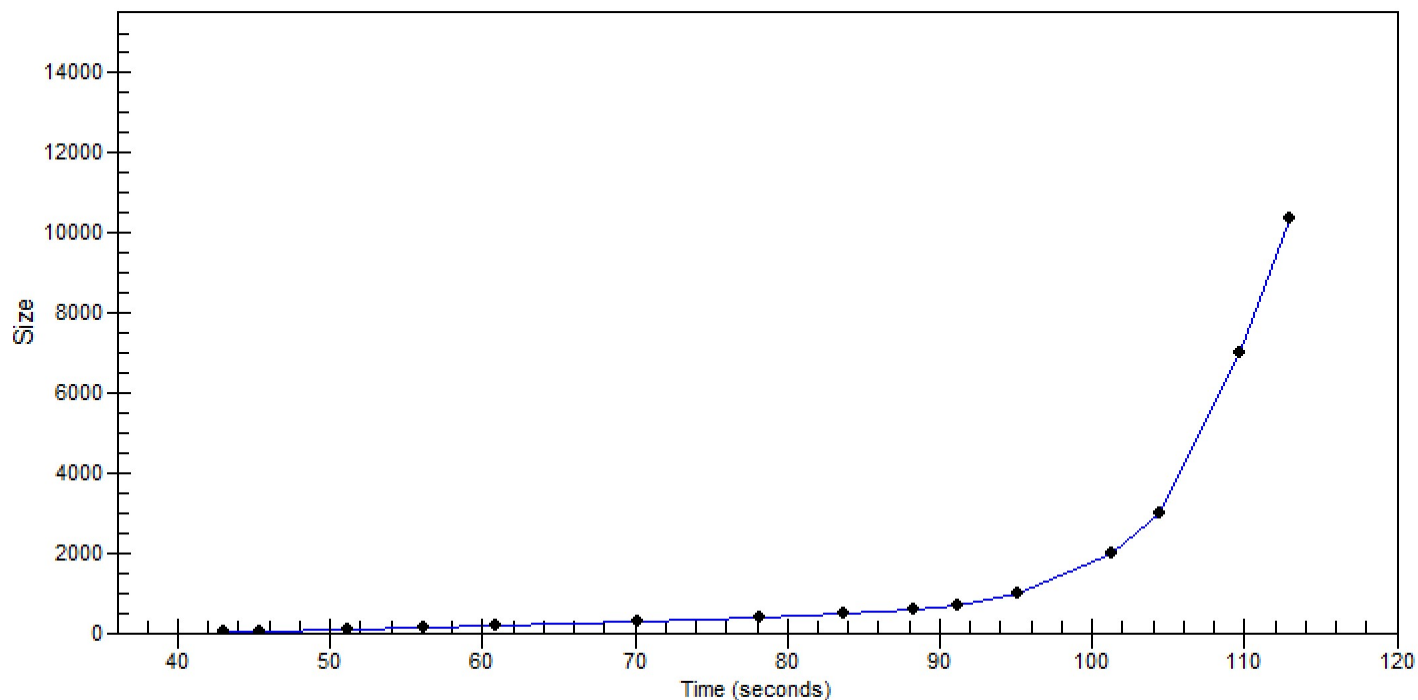


Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-23_001.xad

Created: 1/23/2020 10:28:00 AM
Modified: 1/23/2020 11:09:25 AM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-23_001.xad

Created: 1/23/2020 10:28:00 AM
 Modified: 1/23/2020 11:09:25 AM

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		1/23/2020 11:09:21 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: Z:\XADs\2020-01-23\Bioanalyze r1_High Sensitivity DNA Assay_2020-01-23_001.xad)		Instrument	Run		1/23/2020 10:28:06 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		1/23/2020 10:28:06 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		1/23/2020 10:28:06 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		1/23/2020 10:28:06 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		1/23/2020 10:28:06 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		1/23/2020 10:28:06 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		1/23/2020 10:28:05 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB