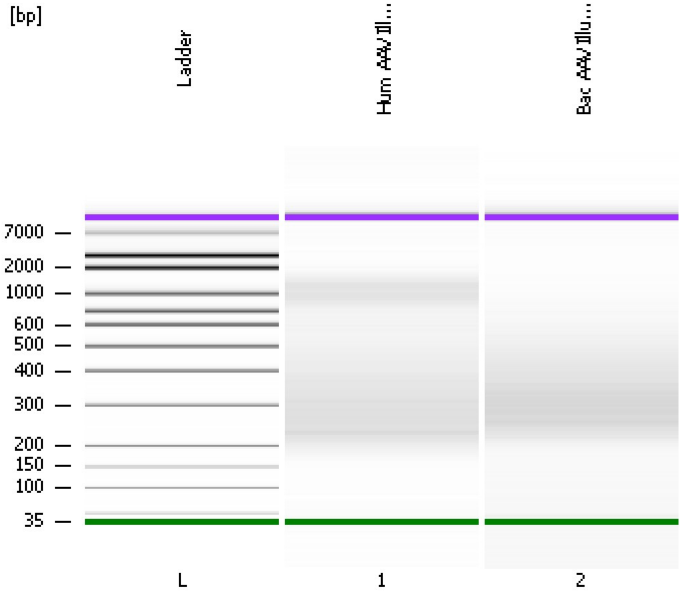
Assay Class: High Sensitivity DNA Assay
Data Path: C:\...19-09-24\2019-09-24_001_HiSeq1885_IlluminaMethylSeqLibs.xad
Created: 9/24/2019 9:53:07 AM
Modified: 9/26/2019 9:42:49 AM

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\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

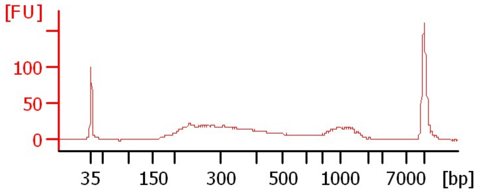
Chip Information:

Chip Lot #:

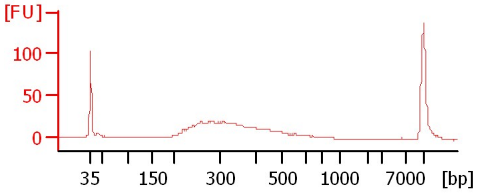
Reagent Kit Lot #:

Chip Comments:

Hum AAV Illumina MethylSeq Lib



Bac AAV Illumina MethylSeq Lib



Assay Class:	High Sensitivity DNA Assay	Created:	9/24/2019 9:53:07 AM
Data Path:	C:\...19-09-24\2019-09-24_001_HiSeq1885_IlluminaMethylSeqLibs.xad	Modified:	9/26/2019 9:42:49 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Hum AAV Illumina MethylSeq Lib		☐	✓			
Bac AAV Illumina MethylSeq Lib		☐	✓			
Ladder		☐	✓			

Chip Lot # **Reagent Kit Lot #**

Chip Comments :

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

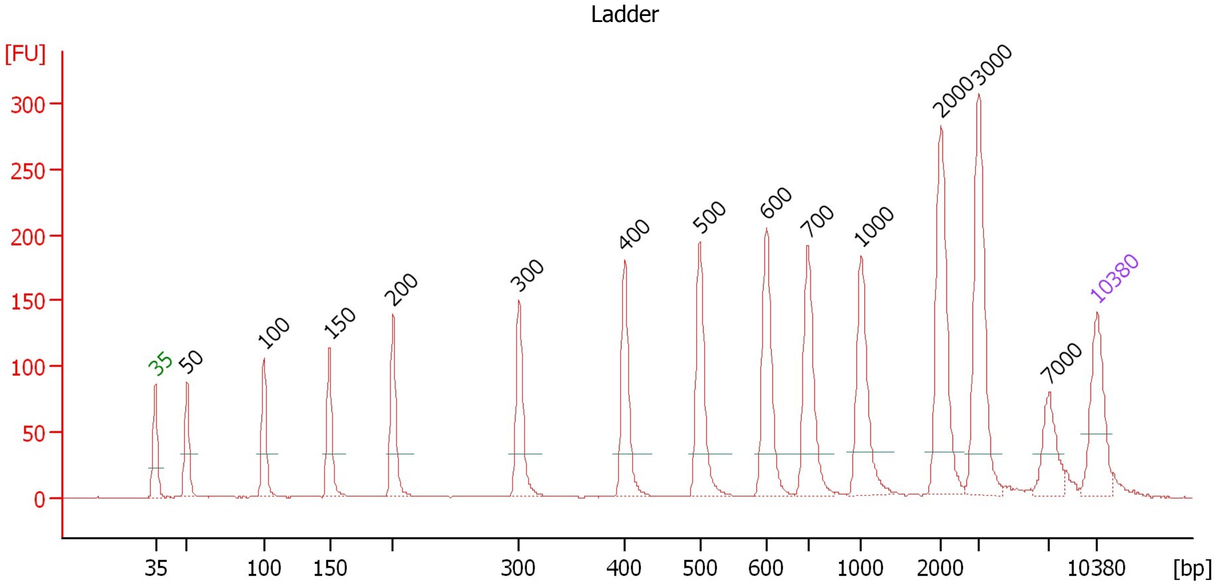
Filter Width [s] : 0.5
Polynomial Order : 4

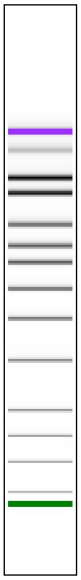
Ladder

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	Created:	9/24/2019 9:53:07 AM
Data Path:	C:\...19-09-24\2019-09-24_001_HiSeq1885_IlluminaMethylSeqLibs.xad	Modified:	9/26/2019 9:42:49 AM

Electropherogram Summary





Overall Results for Ladder

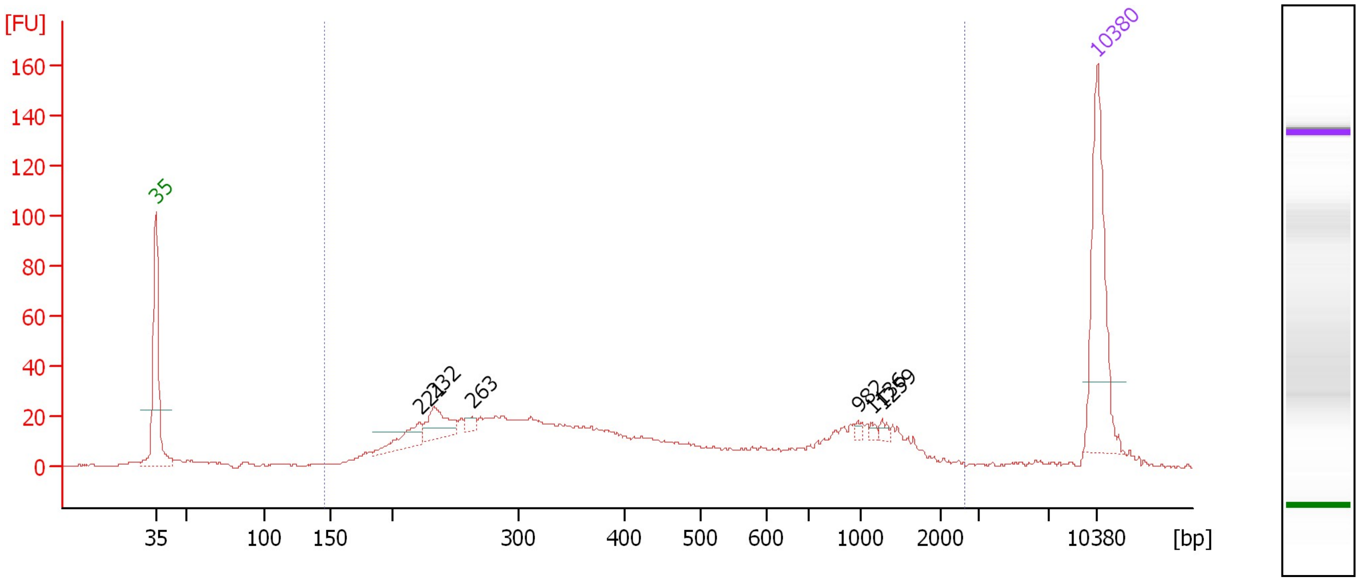
Noise: 0.2

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	L	50	150.00	4,545.5	Ladder Peak	45.33
3	L	100	150.00	2,272.7	Ladder Peak	51.04
4	L	150	150.00	1,515.2	Ladder Peak	55.93
5	L	200	150.00	1,136.4	Ladder Peak	60.65
6	L	300	150.00	757.6	Ladder Peak	70.03
7	L	400	150.00	568.2	Ladder Peak	77.84
8	L	500	150.00	454.5	Ladder Peak	83.46
9	L	600	150.00	378.8	Ladder Peak	88.39
10	L	700	150.00	324.7	Ladder Peak	91.49
11	L	1,000	150.00	227.3	Ladder Peak	95.44
12	L	2,000	150.00	113.6	Ladder Peak	101.37
13	L	3,000	150.00	75.8	Ladder Peak	104.15
14	L	7,000	150.00	32.5	Ladder Peak	109.41
15	▶	10,380	75.00	10.9	Upper Marker	113.00

Electropherogram Summary Continued ...

Hum AAV Illumina MethylSeq Lib



Overall Results for sample 1 : **Hum AAV Illumina MethylSeq Lib**

Number of peaks found:	6	Corr. Area 1:	748.2
Noise:	0.4		

Peak table for sample 1 : **Hum AAV Illumina MethylSeq Lib**

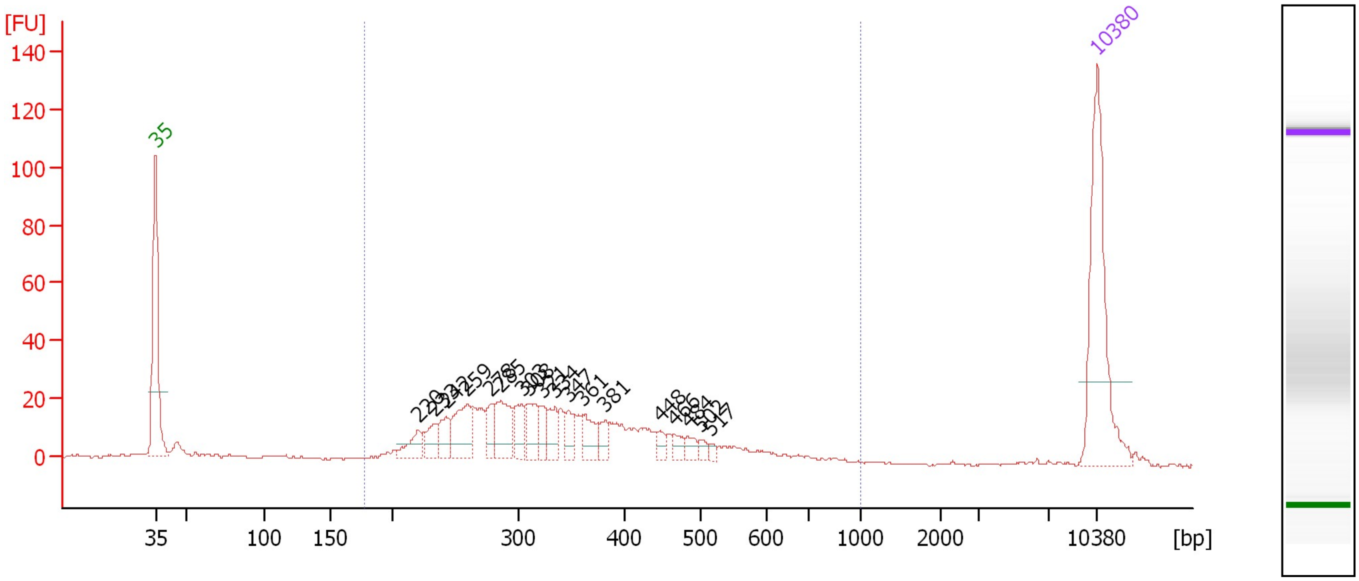
Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	◀	35	125.00	5,411.3	Lower Marker	43.00
2		221	23.97	164.4		62.62
3		232	30.33	198.0		63.66
4		263	6.12	35.3		66.53
5		982	2.41	3.7		95.20
6		1,136	2.57	3.4		96.25
7		1,259	3.19	3.8		96.98
8	▶	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 1 : **Hum AAV Illumina MethylSeq Lib**

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/µl]	Corr. Area	Molarity [pmol/l]	Color	% of Total	Size distribution in CV [%]
147	2,650	531	538.93	748.2	2,491.4	🟦	95	75.1

Electropherogram Summary Continued ...

Bac AAV Illumina MethylSeq Lib



Overall Results for sample 2 : **Bac AAV Illumina MethylSeq Lib**

Number of peaks found:	18	Corr. Area 1:	520.2
Noise:	0.4		

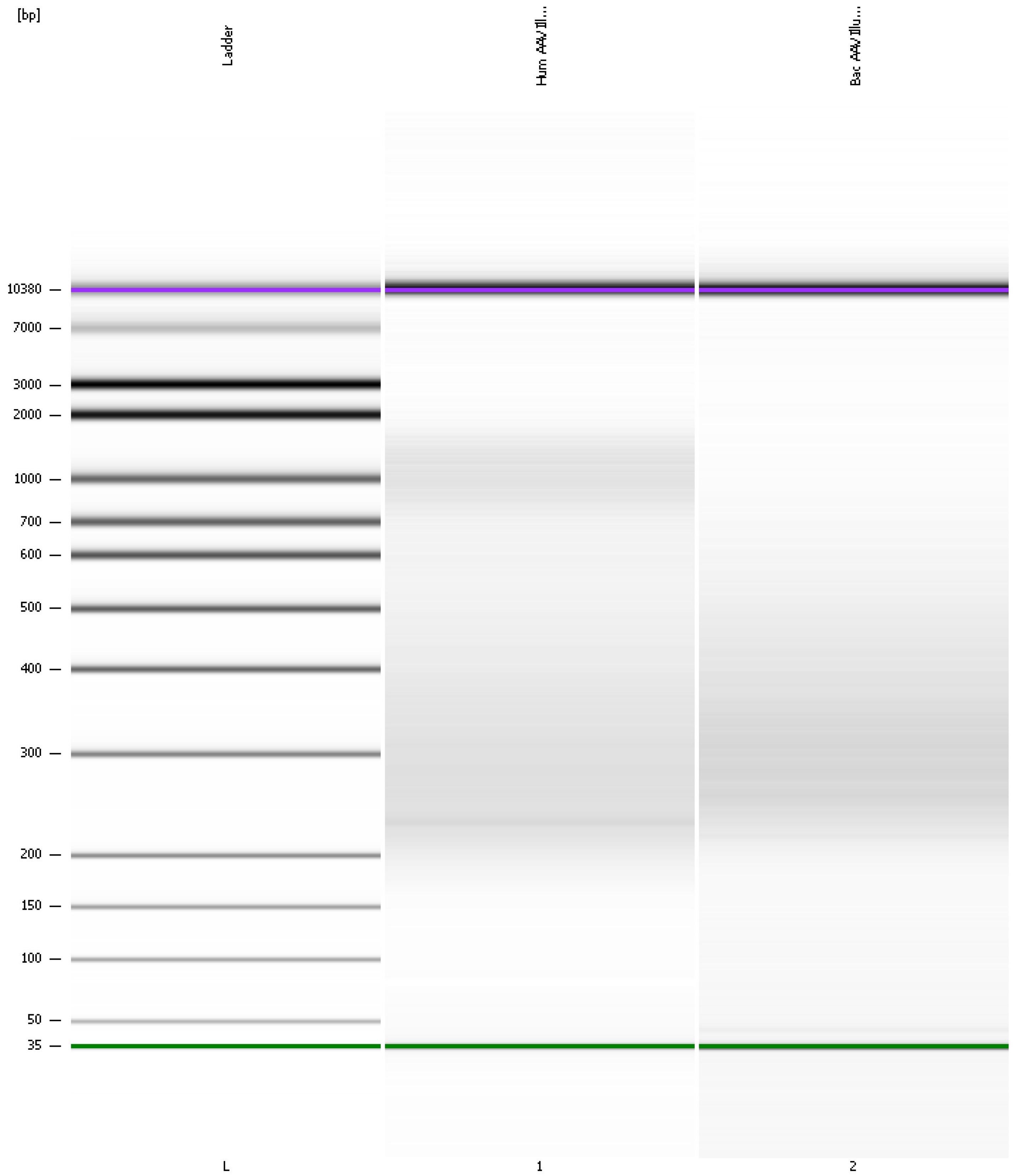
Peak table for sample 2 : **Bac AAV Illumina MethylSeq Lib**

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		220	15.67	108.0		62.50
3		233	14.11	91.7		63.74
4		242	17.11	107.0		64.61
5		259	32.49	190.2		66.17
6		278	13.28	72.4		67.95
7		285	32.07	170.4		68.64
8		303	15.59	78.0		70.24
9		308	19.61	96.5		70.65
10		321	11.79	55.6		71.71
11		334	14.41	65.4		72.67
12		347	12.17	53.2		73.67
13		361	16.56	69.6		74.77
14		381	9.68	38.5		76.37
15		448	5.83	19.7		80.54
16		466	6.43	20.9		81.55
17		484	6.72	21.0		82.56
18		502	4.16	12.5		83.56
19		517	2.77	8.1		84.29
20	▶	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 2 : **Bac AAV Illumina MethylSeq Lib**

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/µl]	Corr. Area	Molarity [pmol/l]	Color	% of Total	Size distribution in CV [%]
178	1,000	357	386.74	520.2	1,854.1	▨	91	32.6

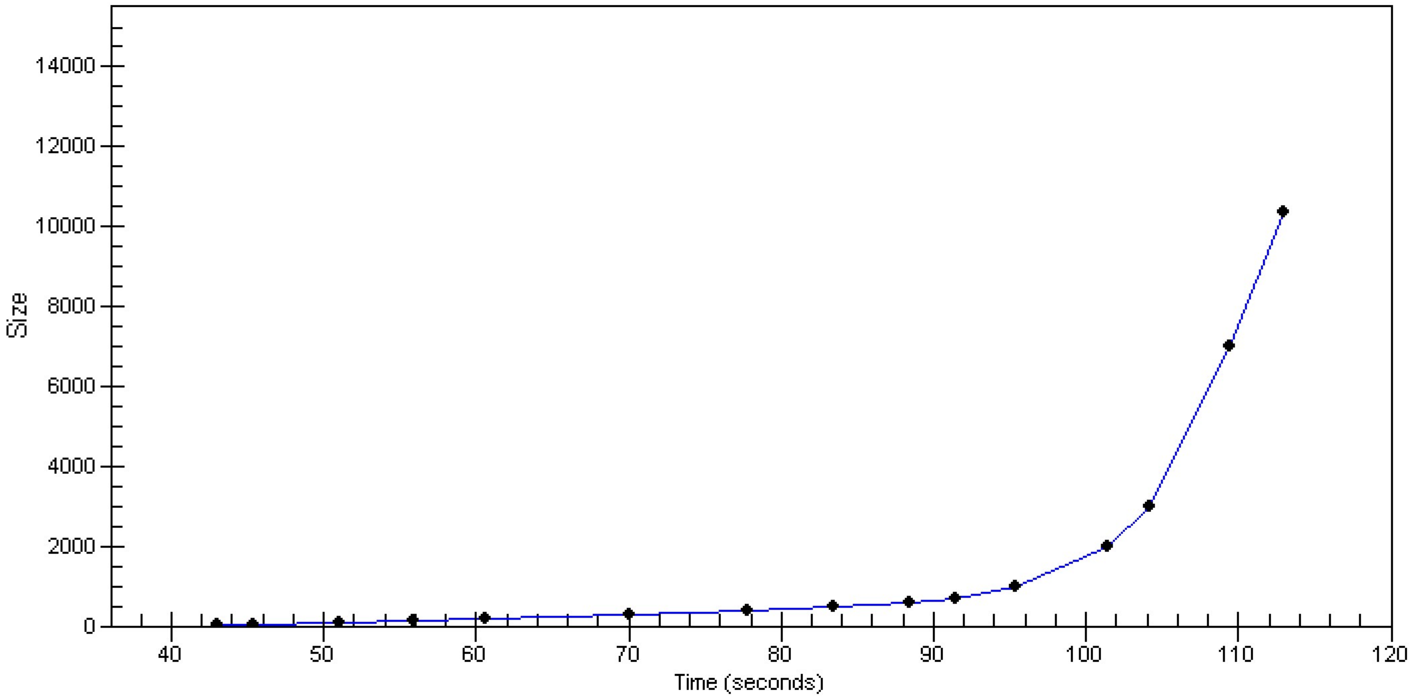
Gel Image


[bp]
Ladder
Hum AAV Il...
Bac AAV Illu...
10380
7000
3000
2000
1000
700
600
500
400
300
200
150
100
50
35
L
1
2

Assay Class:	High Sensitivity DNA Assay	Created:	9/24/2019 9:53:07 AM
Data Path:	C:\...19-09-24\2019-09-24_001_HiSeq1885_IlluminaMethylSeqLibs.xad	Modified:	9/26/2019 9:42:49 AM

Curves

Standard Curve



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		9/24/2019 10:34:23 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2019-09-24\2019-09-24_001.xad)		Instrument	Run		9/24/2019 9:53:12 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		9/24/2019 9:53:12 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		9/24/2019 9:53:12 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		9/24/2019 9:53:12 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		9/24/2019 9:53:12 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		9/24/2019 9:53:12 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		9/24/2019 9:53:12 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1