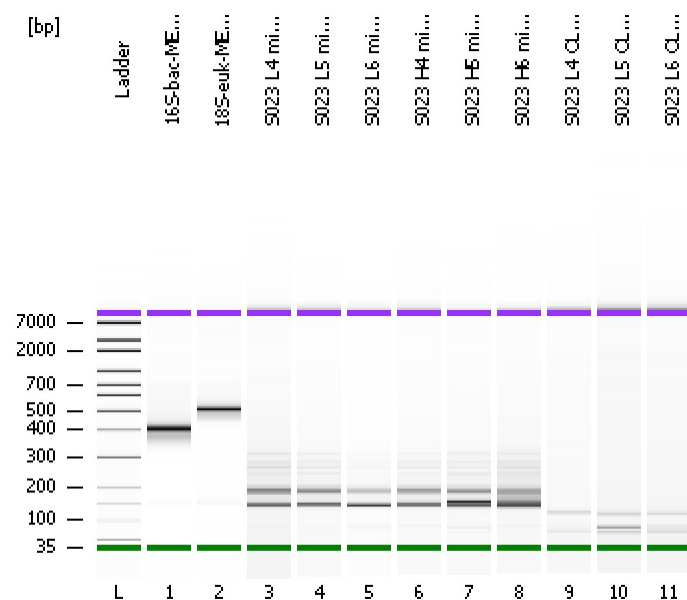


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE24802735_2017-07-10_10-11-25.xad

Created: 7/10/2017 10:11:24 AM
Modified: 7/10/2017 11:00:46 AM

Electrophoresis File Run Summary



Instrument Information:

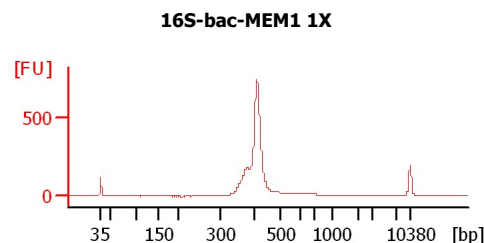
Instrument Name: DE24802735
Serial#: DE24802735
Firmware: C.01.069
Type: G2938B

Assay Information:

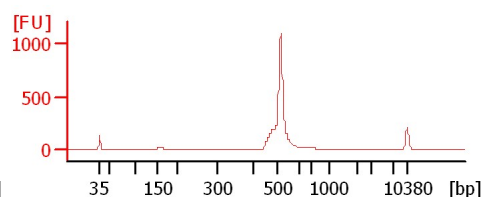
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\dsDNA\High Sensitivity DNA.xsy
Assay Class: High Sensitivity DNA Assay
Version: 1.03
Assay Comments: Copyright © 2003-2010 Agilent Technologies

Chip Information:

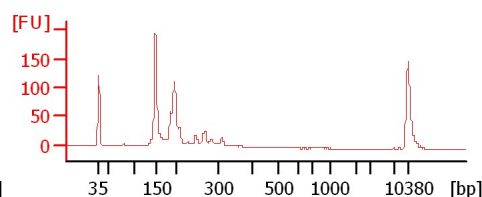
Chip Lot #:
Reagent Kit Lot #:
Chip Comments:



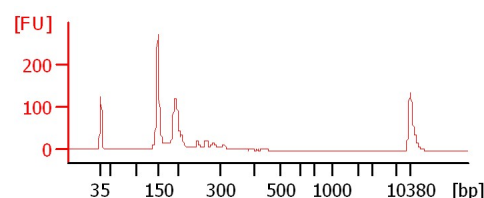
S023 L5 miRNA library 1:22



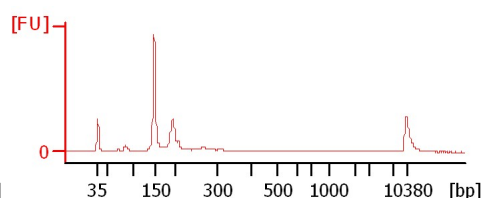
S023 L6 miRNA library 1:26



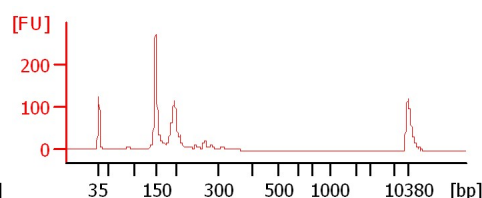
S023 H4 miRNA library 1:27



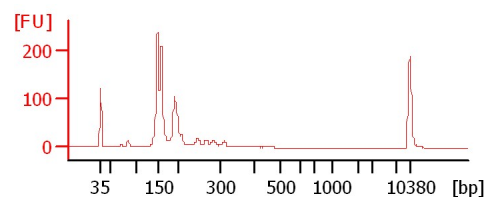
S023 H5 miRNA library 1:29



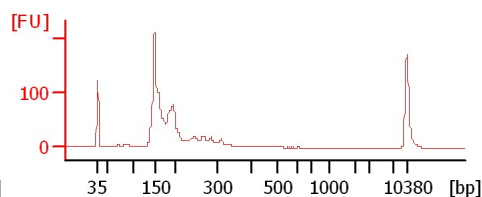
S023 H6 miRNA library 1:32



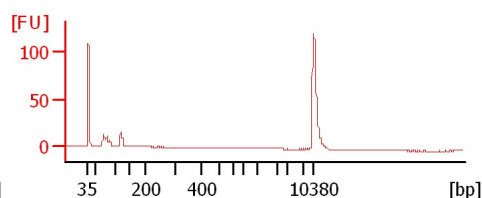
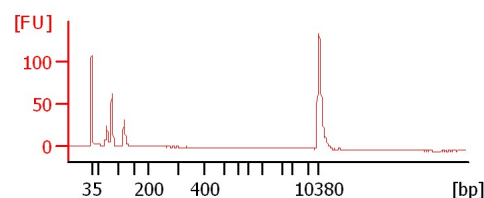
S023 L4 OLD 1:13



S023 L5 OLD 1:9



S023 L6 OLD 1:11



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE24802735_2017-07-10_10-11-25.xad

Created: 7/10/2017 10:11:24 AM
Modified: 7/10/2017 11:00:46 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
16S-bac-MEM1 1X		<input type="checkbox"/>	✓			
18S-euk-MEM1 1:2		<input type="checkbox"/>	✓			
S023 L4 miRNA library 1:44		<input type="checkbox"/>	✓			
S023 L5 miRNA library 1:22		<input type="checkbox"/>	✓			
S023 L6 miRNA library 1:26		<input type="checkbox"/>	✓			
S023 H4 miRNA library 1:27		<input type="checkbox"/>	✓			
S023 H5 miRNA library 1:29		<input type="checkbox"/>	✓			
S023 H6 miRNA library 1:32		<input type="checkbox"/>	✓			
S023 L4 OLD 1:13		<input type="checkbox"/>	✓			
S023 L5 OLD 1:9		<input type="checkbox"/>	✓			
S023 L6 OLD 1:11		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			
Chip Lot #			Reagent Kit Lot #			

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE24802735_2017-07-10_10-11-25.xad

Created: 7/10/2017 10:11:24 AM
Modified: 7/10/2017 11:00:46 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

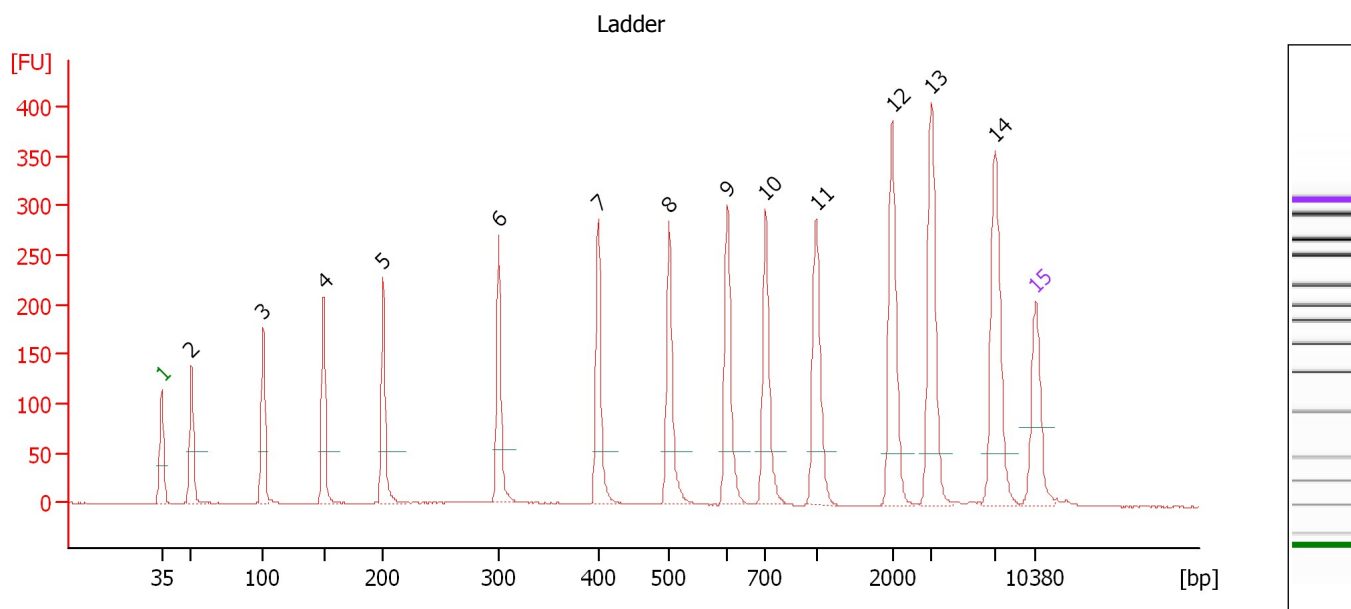
Ladder

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: C:\...gh Sensitivity DNA Assay_DE24802735_2017-07-10_10-11-25.xad

Created: 7/10/2017 10:11:24 AM
 Modified: 7/10/2017 11:00:46 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.3

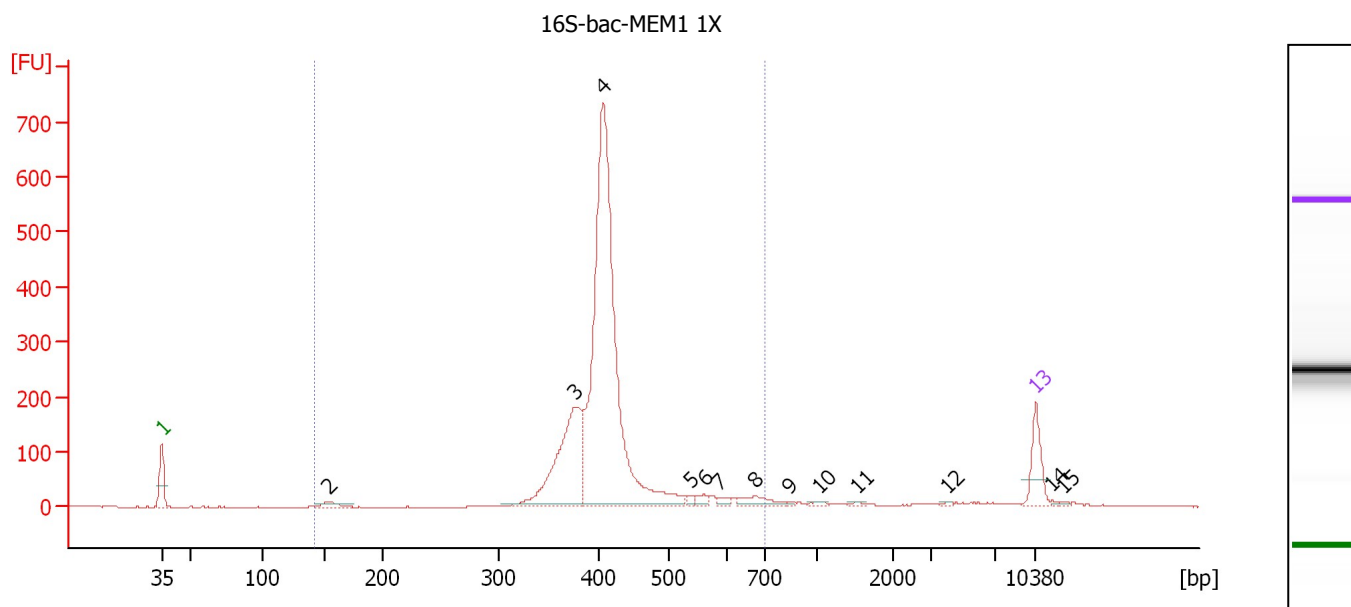
Peak table for Ladder

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

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE24802735_2017-07-10_10-11-25.xad

Created: 7/10/2017 10:11:24 AM
 Modified: 7/10/2017 11:00:46 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 16S-bac-MEM1 1X

Number of peaks found: 13 Corr. Area 1: 2,667.5
 Noise: 0.4

Peak table for sample 1 : 16S-bac-MEM1 1X

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	154	27.48	270.9	
3	377	433.35	1,742.7	
4	407	1,408.04	5,242.1	
5	536	10.55	29.8	
6	560	17.97	48.6	
7	586	12.34	31.9	
8	671	38.05	85.9	
9	841	2.76	5.0	
10	1,032	6.07	8.9	
11	1,540	3.96	3.9	
12	3,991	2.81	1.1	
13	10,380	75.00	10.9	Upper Marker
14	11,721	0.00	0.0	
15	12,650	0.00	0.0	

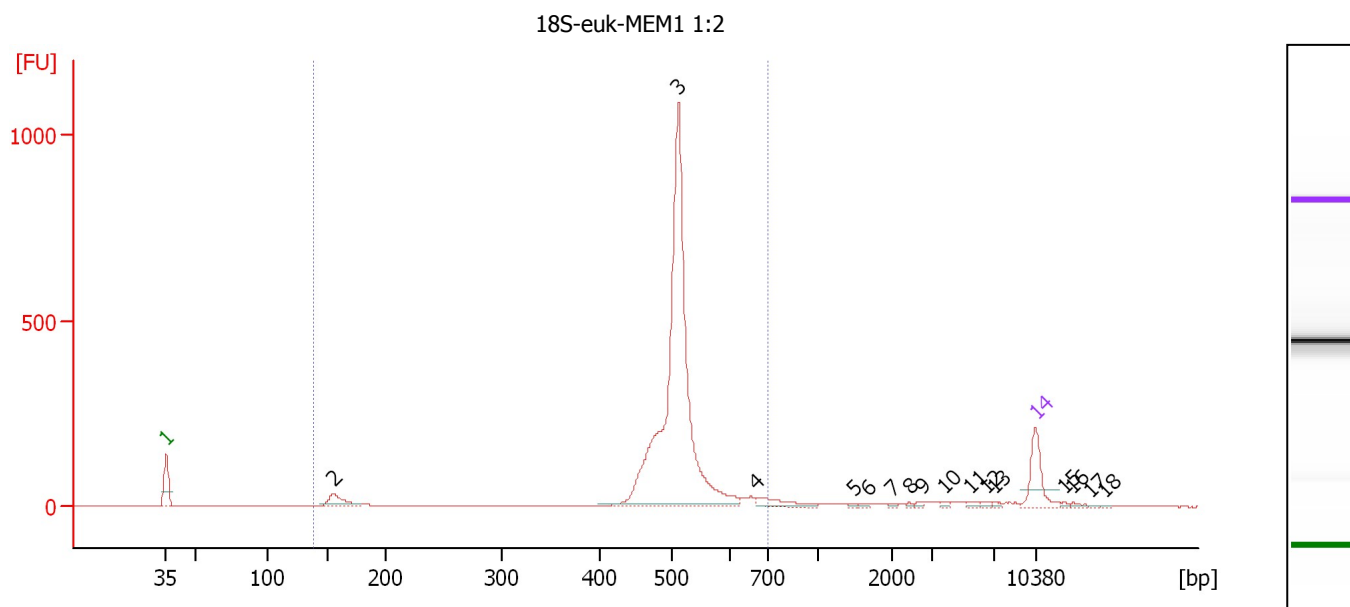
Region table for sample 1 : 16S-bac-MEM1 1X

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
142	700	2,667.5	92	415	14.7	1,993.56	7,535.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE24802735_2017-07-10_10-11-25.xad

Created: 7/10/2017 10:11:24 AM
 Modified: 7/10/2017 11:00:46 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 18S-euk-MEM1 1:2

Number of peaks found: 16 Corr. Area 1: 2,522.2
 Noise: 0.5

Peak table for sample 2 : 18S-euk-MEM1 1:2

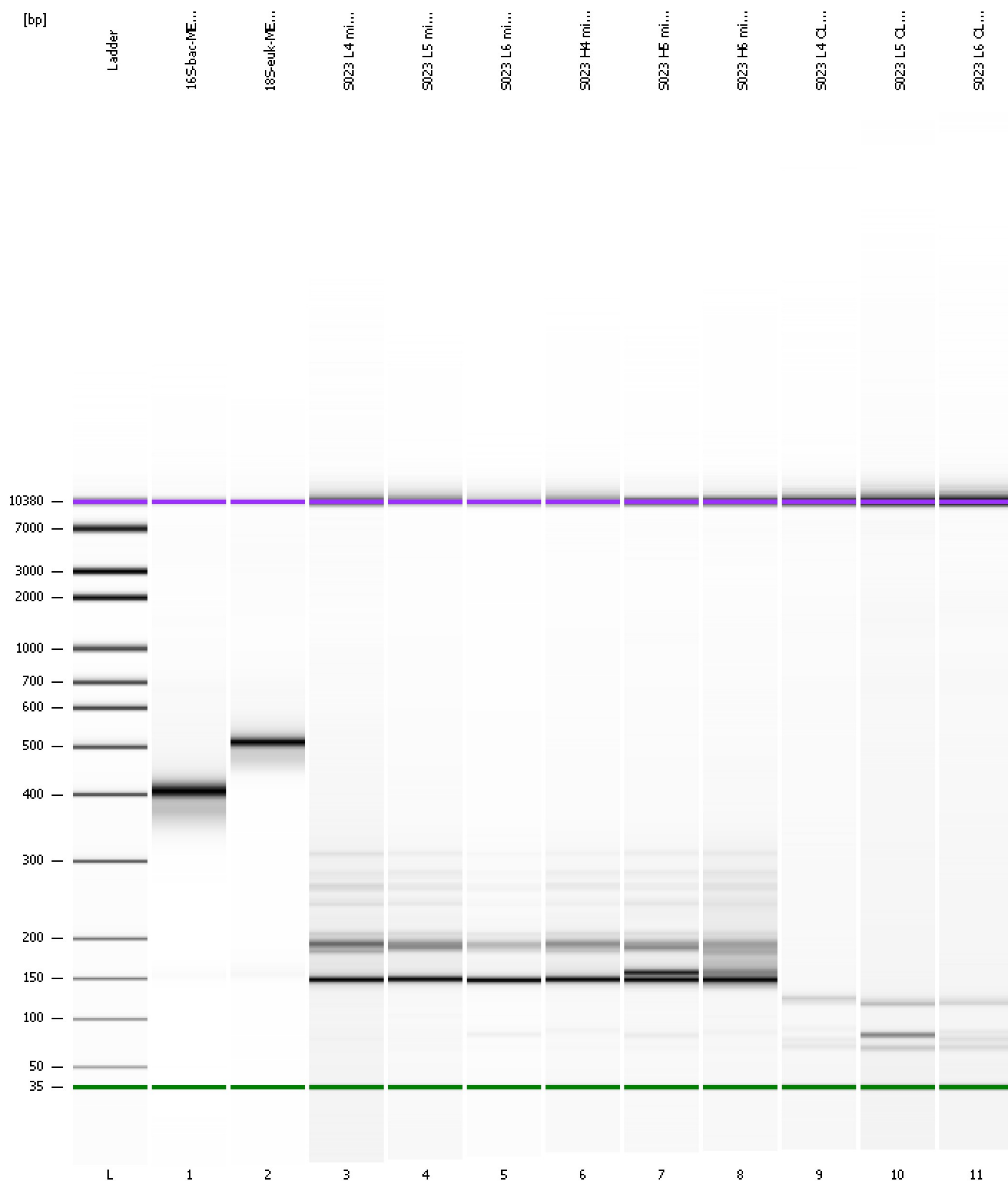
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	155	63.15	616.4	
3	513	1,235.69	3,651.9	
4	670	43.93	99.3	
5	1,487	2.98	3.0	
6	1,671	3.39	3.1	
7	1,979	3.55	2.7	
8	2,425	2.94	1.8	
9	2,729	4.22	2.3	
10	3,806	4.36	1.7	
11	5,449	6.01	1.7	
12	6,411	5.00	1.2	
13	6,972	4.05	0.9	
14	10,380	75.00	10.9	Upper Marker
15	12,798	0.00	0.0	
16	13,482	0.00	0.0	
17	14,901	0.00	0.0	
18	16,057	0.00	0.0	

Region table for sample 2 : 18S-euk-MEM1 1:2

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
139	700	2,522.2	88	501	15.1	1,382.57	4,679.8	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE24802735_2017-07-10_10-11-25.xad

Created: 7/10/2017 10:11:24 AM
Modified: 7/10/2017 11:00:46 AM

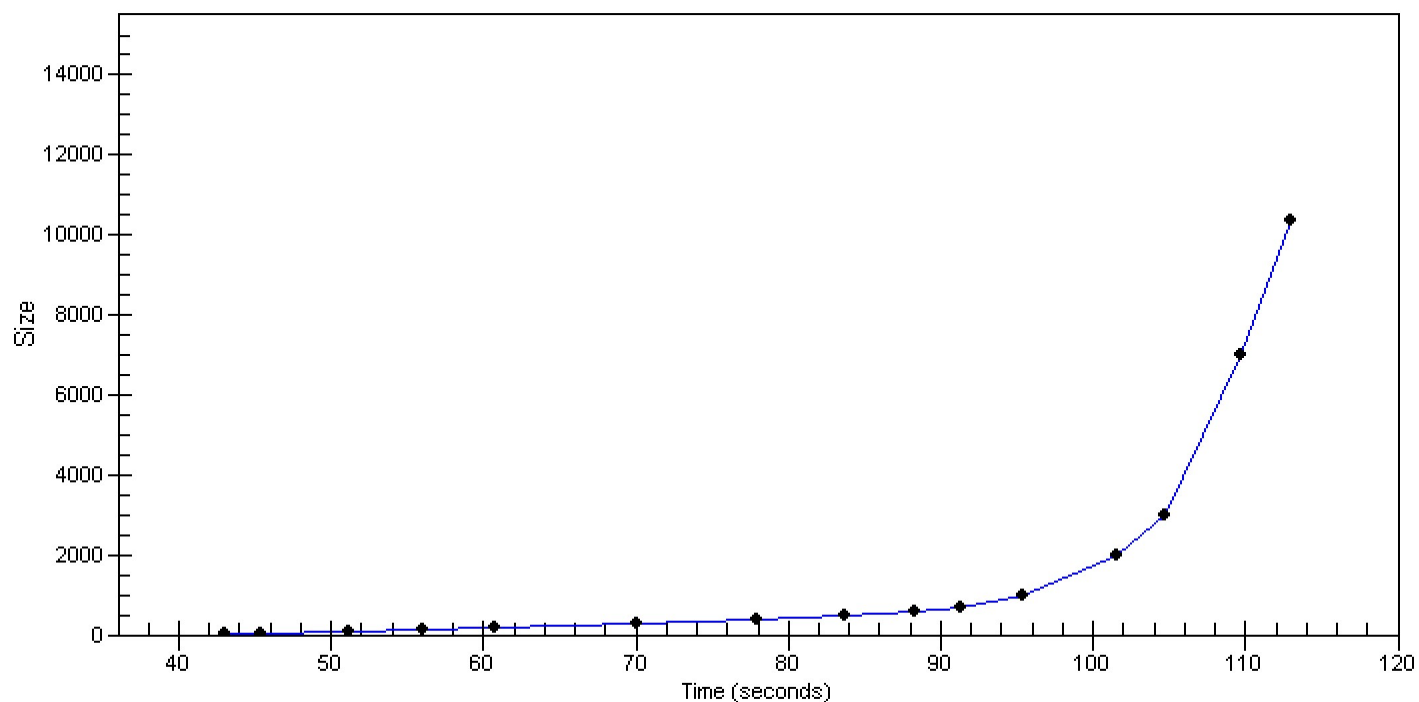
Gel Image

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE24802735_2017-07-10_10-11-25.xad

Created: 7/10/2017 10:11:24 AM
Modified: 7/10/2017 11:00:46 AM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE24802735_2017-07-10_10-11-25.xad

Created: 7/10/2017 10:11:24 AM
 Modified: 7/10/2017 11:00:46 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		7/10/2017 10:52:44 AM	(GMT --07:00) Pacific Standard Time	genomics	3730PC
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\Data\2017-07-10\2100 expert_High Sensitivity DNA Assay_DE24802735_2017-07-10_10-11-25.xad)		Instrument	Run		7/10/2017 10:11:31 AM	(GMT --07:00) Pacific Standard Time	genomics	3730PC
Product Number : G2938B		Instrument	Run		7/10/2017 10:11:31 AM	(GMT --07:00) Pacific Standard Time	genomics	3730PC
Name :		Instrument	Run		7/10/2017 10:11:31 AM	(GMT --07:00) Pacific Standard Time	genomics	3730PC
Vendor : Agilent Technologies		Instrument	Run		7/10/2017 10:11:31 AM	(GMT --07:00) Pacific Standard Time	genomics	3730PC
Serial# : DE24802735		Instrument	Run		7/10/2017 10:11:31 AM	(GMT --07:00) Pacific Standard Time	genomics	3730PC
Firmware : C.01.069		Instrument	Run		7/10/2017 10:11:31 AM	(GMT --07:00) Pacific Standard Time	genomics	3730PC
Cartridge : Electrode		Instrument	Run		7/10/2017 10:11:31 AM	(GMT --07:00) Pacific Standard Time	genomics	3730PC