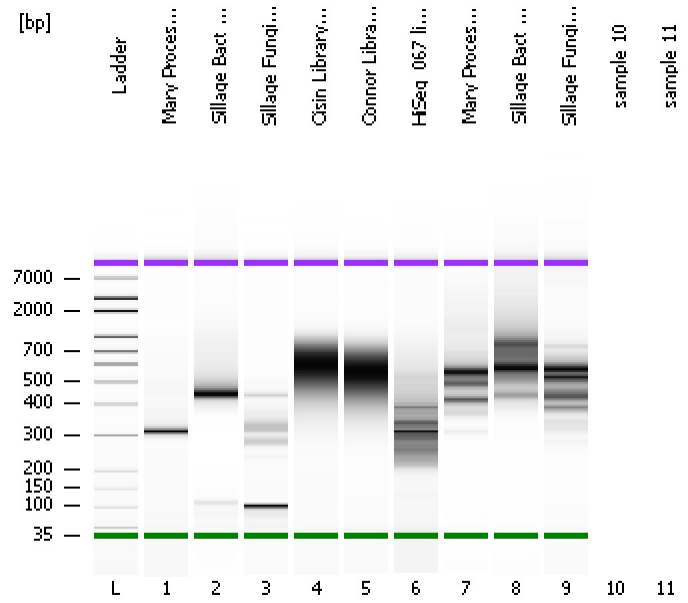
Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-23\2015-03-23_001.xad

Created: 3/23/2015 3:53:27 PM
Modified: 3/23/2015 4:29:03 PM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 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

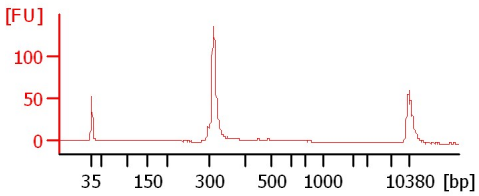
Chip Information:

Chip Lot #:

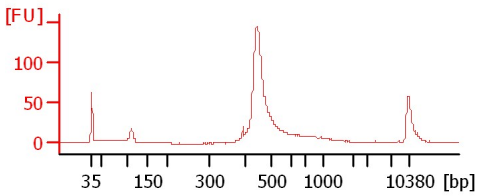
Reagent Kit Lot #:

Chip Comments:

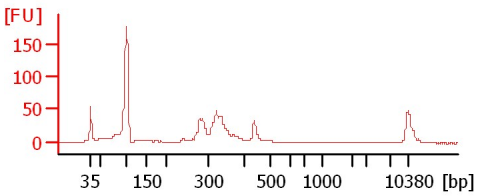
Mary Process Milk, 3-19-15 (1:26)
DNA_MiSeq_104



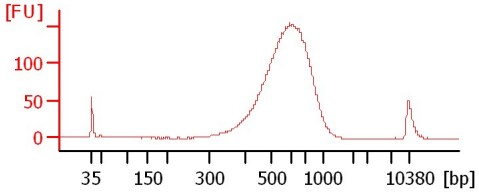
Sillage Bact (16S) (1:19)
DNA_MiSeq_106



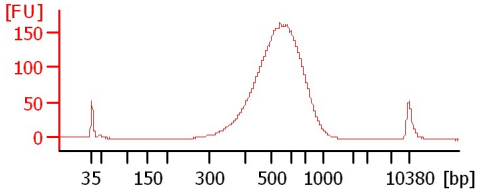
Sillage Fungi (ITS) (1:13)
DNA_MiSeq_106



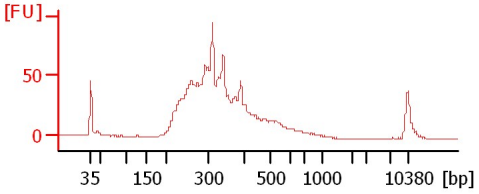
Oisin Library (1:3) (PrepXILM 320)
HiSeq_079



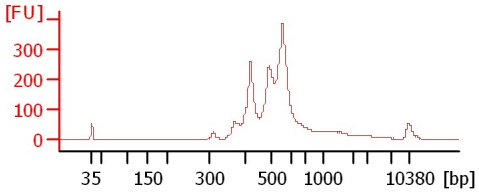
Connor Library (1:2) (PrepXILM 320)
HiSeq_079



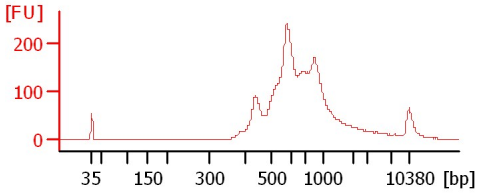
HiSeq_067 library pool x15
HiSeq_079



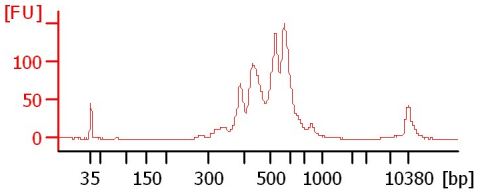
Mary Process Milk, 3-19-15 ligation rxn
MiSeq_104



Sillage Bact (16S) ligation rxn
MiSeq_106



Sillage Fungi (ITS) ligation rxn
MiSeq_106



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-23\2015-03-23_001.xad

Created: 3/23/2015 3:53:27 PM
Modified: 3/23/2015 4:29:03 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Mary Process Milk, 3-19-15 (1:26)	DNA_MiSeq_104	☐	✓			
Sillage Bact (16S) (1:19)	DNA_MiSeq_106	☐	✓			
Sillage Fungi (ITS) (1:13)	DNA_MiSeq_106	☐	✓			
Oisin Library (1:3) (PrepXILM 320)	HiSeq_079	☐	✓			
Connor Library (1:2) (PrepXILM 320)	HiSeq_079	☐	✓			
HiSeq_067 library pool x15	HiSeq_079	☐	✓			
Mary Process Milk, 3-19-15 ligation rxn	MiSeq_104	☐	✓			
Sillage Bact (16S) ligation rxn	MiSeq_106	☐	✓			
Sillage Fungi (ITS) ligation rxn	MiSeq_106	☐	✓			
sample 10		☐				
sample 11		☐				
Ladder		☐	✓			

Chip Lot # **Reagent Kit Lot #**

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-23\2015-03-23_001.xad

Created: 3/23/2015 3:53:27 PM
Modified: 3/23/2015 4:29:03 PM

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

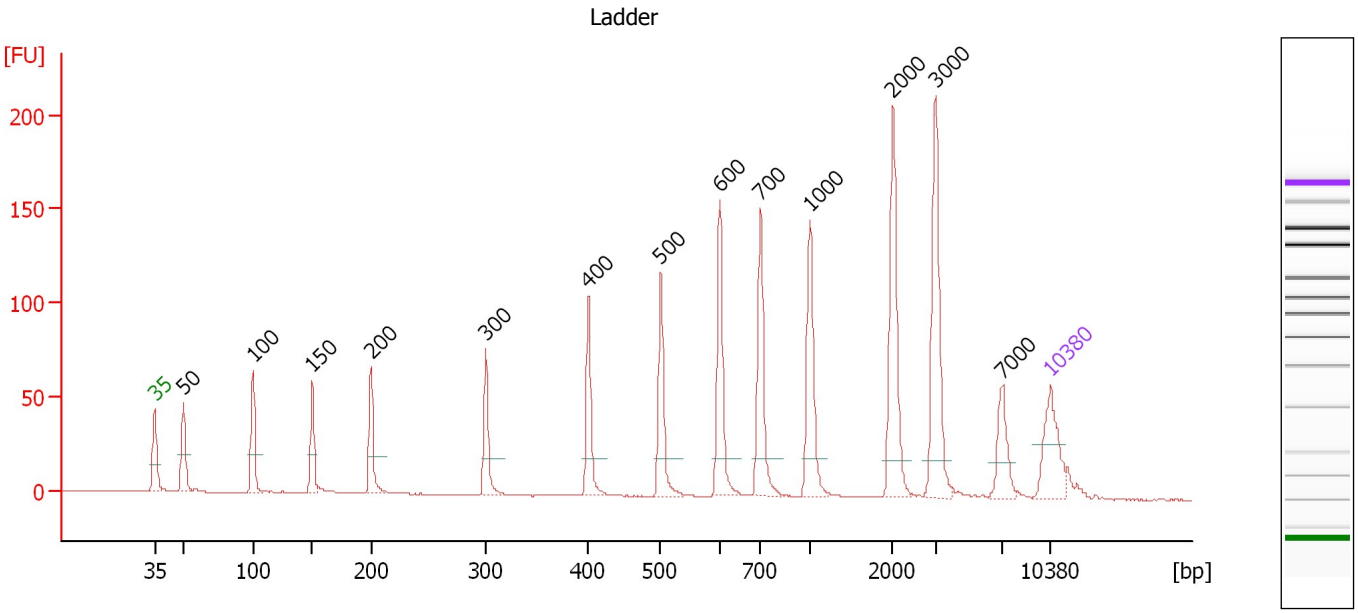
Ladder

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:\...ents and Settings\Bioanalyzer\2015-03-23\2015-03-23_001.xad

Created: 3/23/2015 3:53:27 PM
Modified: 3/23/2015 4:29:03 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

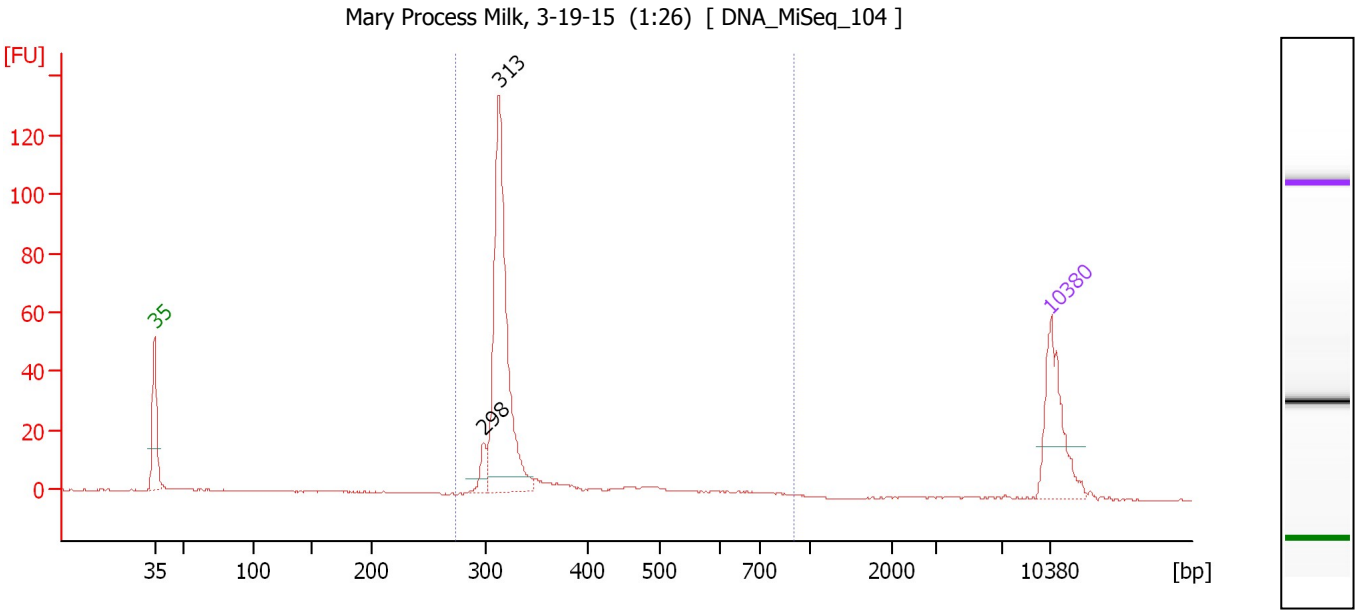
Peak table for Ladder

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	45.28
3		100	150.00	2,272.7	Ladder Peak	50.67
4		150	150.00	1,515.2	Ladder Peak	55.33
5		200	150.00	1,136.4	Ladder Peak	59.89
6		300	150.00	757.6	Ladder Peak	68.89
7		400	150.00	568.2	Ladder Peak	76.88
8		500	150.00	454.5	Ladder Peak	82.54
9		600	150.00	378.8	Ladder Peak	87.16
10		700	150.00	324.7	Ladder Peak	90.35
11		1,000	150.00	227.3	Ladder Peak	94.19
12		2,000	150.00	113.6	Ladder Peak	100.67
13		3,000	150.00	75.8	Ladder Peak	104.05
14		7,000	150.00	32.5	Ladder Peak	109.21
15		10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-23\2015-03-23_001.xad

Created: 3/23/2015 3:53:27 PM
Modified: 3/23/2015 4:29:03 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Mary Process Milk, 3-19-15 (1:26)

Number of peaks found:	2	Corr. Area 1:	300.5
Noise:	0.2		

Peak table for sample 1 : Mary Process Milk, 3-19-15 (1:26)

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	298	22.68	115.3		68.71
3	313	327.45	1,586.2		69.91
4	10,380	75.00	10.9	Upper Marker	113.00

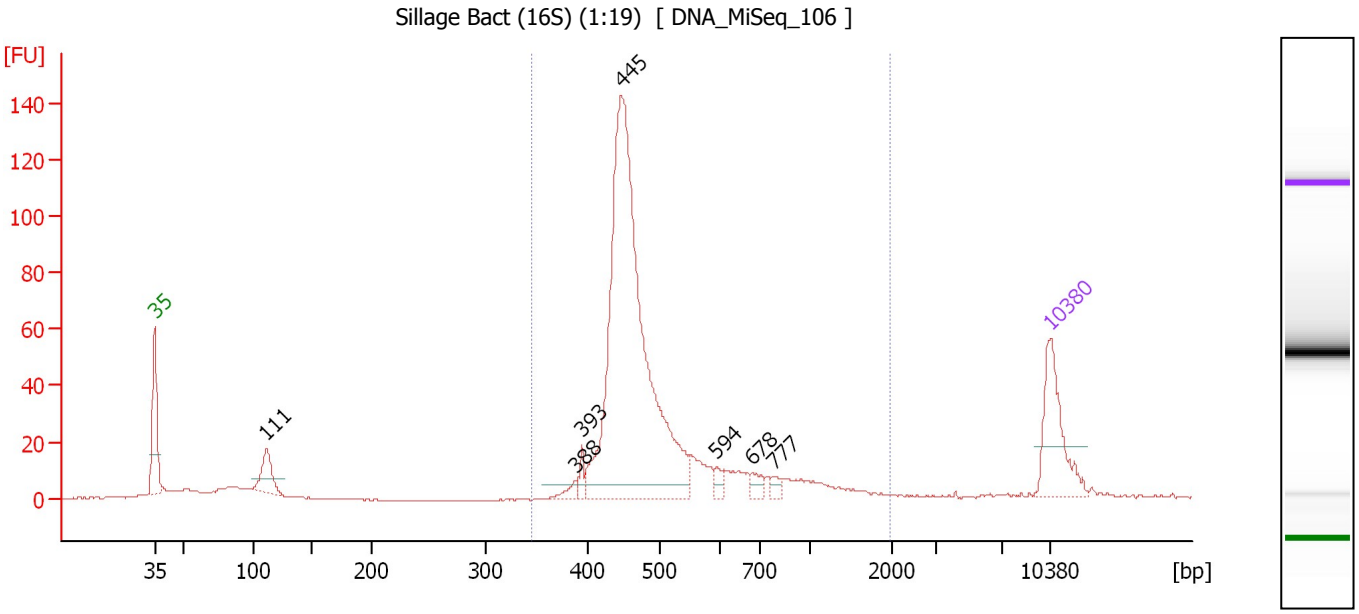
Region table for sample 1 : Mary Process Milk, 3-19-15 (1:26)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/µl]	Color
273	345	905	300.5	1,888.6	97	23.5	411.32	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-23\2015-03-23_001.xad

Created: 3/23/2015 3:53:27 PM
Modified: 3/23/2015 4:29:03 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Sillage Bact (16S) (1:19)

Number of peaks found:	7	Corr. Area 1:	709.5
Noise:	0.2		

Peak table for sample 2 : Sillage Bact (16S) (1:19)

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	111	54.43	739.9		51.74
3	388	12.31	48.0		75.93
4	393	12.52	48.2		76.36
5	445	716.88	2,438.2		79.46
6	594	12.22	31.2		86.88
7	678	13.39	29.9		89.65
8	777	8.17	15.9		91.34
9	10,380	75.00	10.9	Upper Marker	113.00

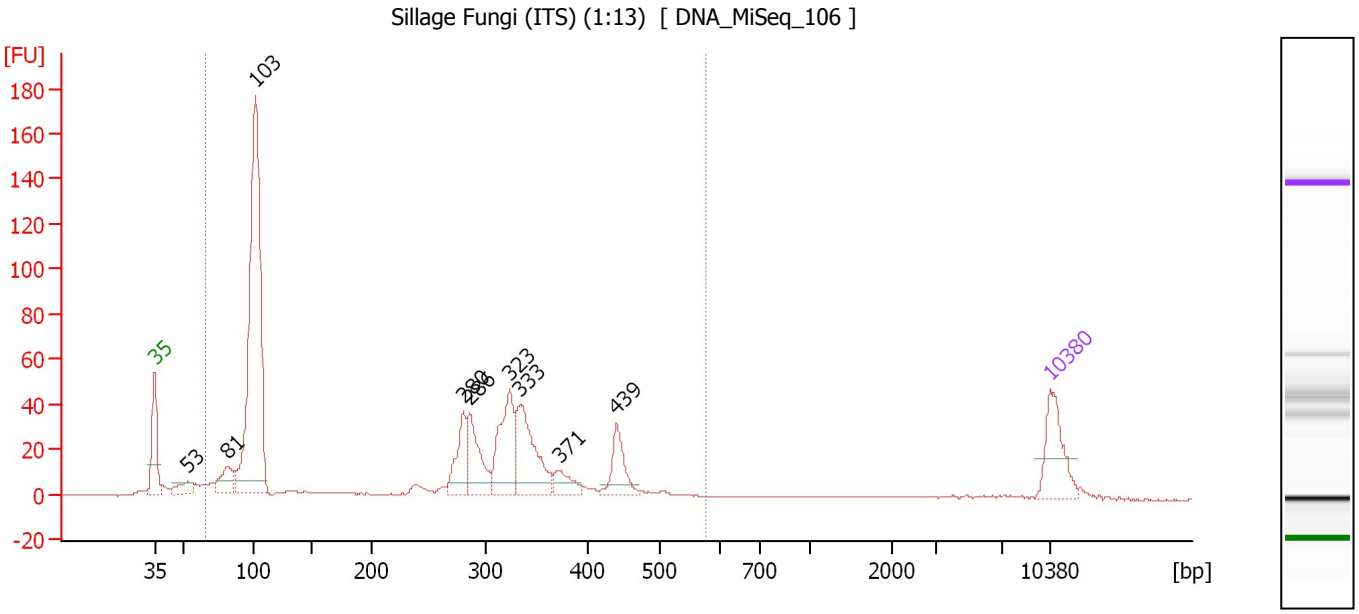
Region table for sample 2 : Sillage Bact (16S) (1:19)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/µl]	Color
345	532	1,956	709.5	2,739.5	84	39.4	879.00	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-23\2015-03-23_001.xad

Created: 3/23/2015 3:53:27 PM
Modified: 3/23/2015 4:29:03 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Sillage Fungi (ITS) (1:13)

Number of peaks found:	9	Corr. Area 1:	849.1
Noise:	0.2		

Peak table for sample 3 : Sillage Fungi (ITS) (1:13)

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	53	36.12	1,035.7		45.59
3	81	67.65	1,260.5		48.66
4	103	815.83	12,051.0		50.91
5	280	89.76	485.2		67.12
6	286	110.26	583.8		67.64
7	323	154.25	724.0		70.71
8	333	166.62	758.1		71.53
9	371	40.29	164.4		74.60
10	439	70.58	243.5		79.10
11	10,380	75.00	10.9	Upper Marker	113.00

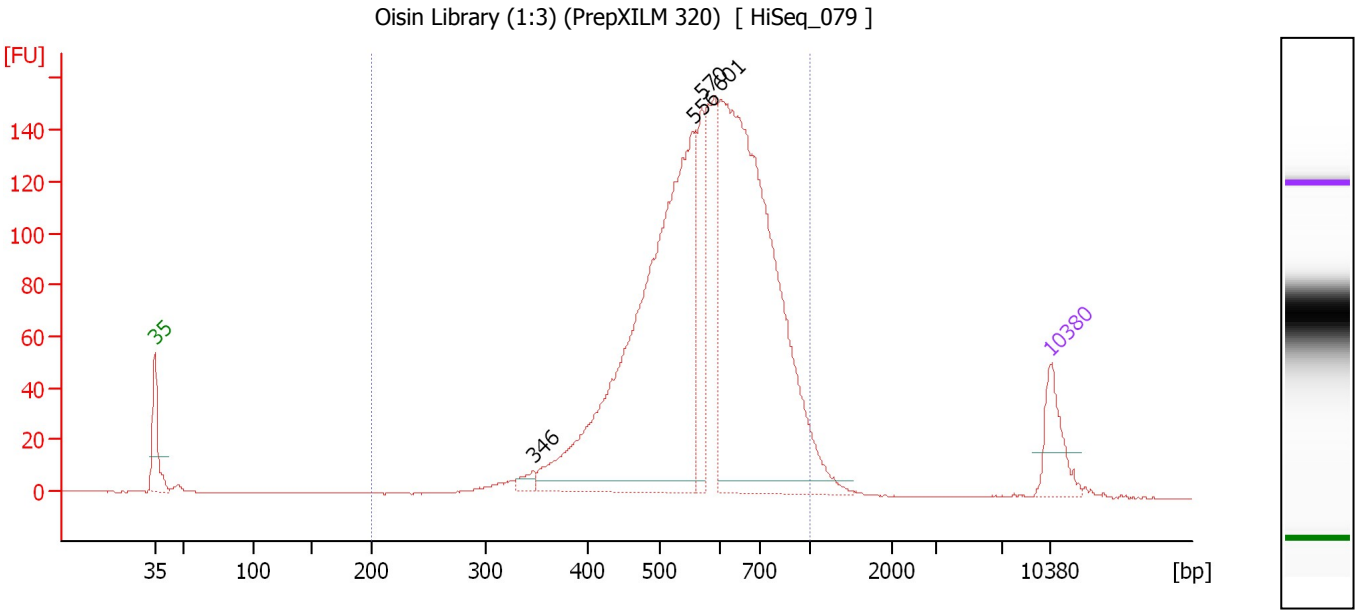
Region table for sample 3 : Sillage Fungi (ITS) (1:13)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/µl]	Color
66	241	575	849.1	17,966.7	93	52.3	1,687.87	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-23\2015-03-23_001.xad

Created: 3/23/2015 3:53:27 PM
Modified: 3/23/2015 4:29:03 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Oisin Library (1:3) (PrepXILM 320)

Number of peaks found:	4	Corr. Area 1:	2,136.9
Noise:	0.1		

Peak table for sample 4 : Oisin Library (1:3) (PrepXILM 320)

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	346	21.65	94.8		72.58
3	556	1,214.49	3,309.5		85.13
4	570	162.39	431.8		85.76
5	601	1,200.63	3,028.4		87.18
6	10,380	75.00	10.9	Upper Marker	113.00

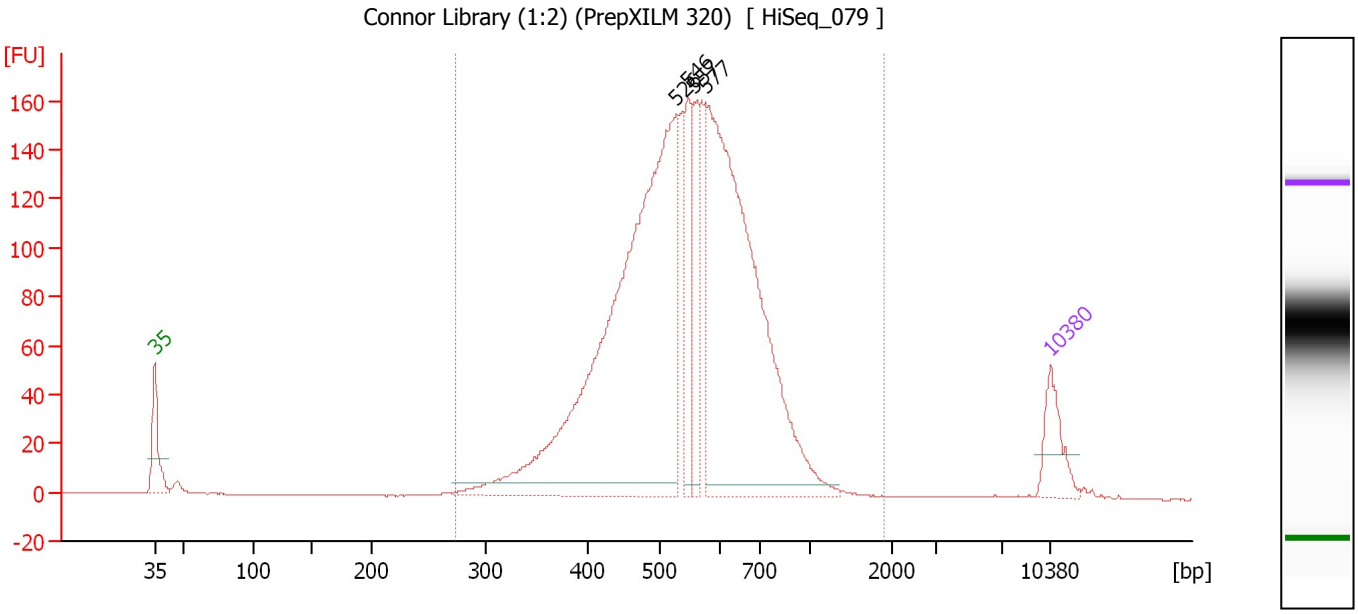
Region table for sample 4 : Oisin Library (1:3) (PrepXILM 320)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/µl]	Color
200	590	1,000	2,136.9	8,149.9	97	21.9	2,975.63	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-23\2015-03-23_001.xad

Created: 3/23/2015 3:53:27 PM
Modified: 3/23/2015 4:29:03 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Connor Library (1:2) (PrepXILM 320)

Number of peaks found:	4	Corr. Area 1:	2,399.6
Noise:	0.1		

Peak table for sample 5 : Connor Library (1:2) (PrepXILM 320)

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	526	1,565.38	4,507.6		83.75
3	546	175.63	487.8		84.64
4	557	172.83	469.8		85.19
5	577	1,174.03	3,084.5		86.08
6	10,380	75.00	10.9	Upper Marker	113.00

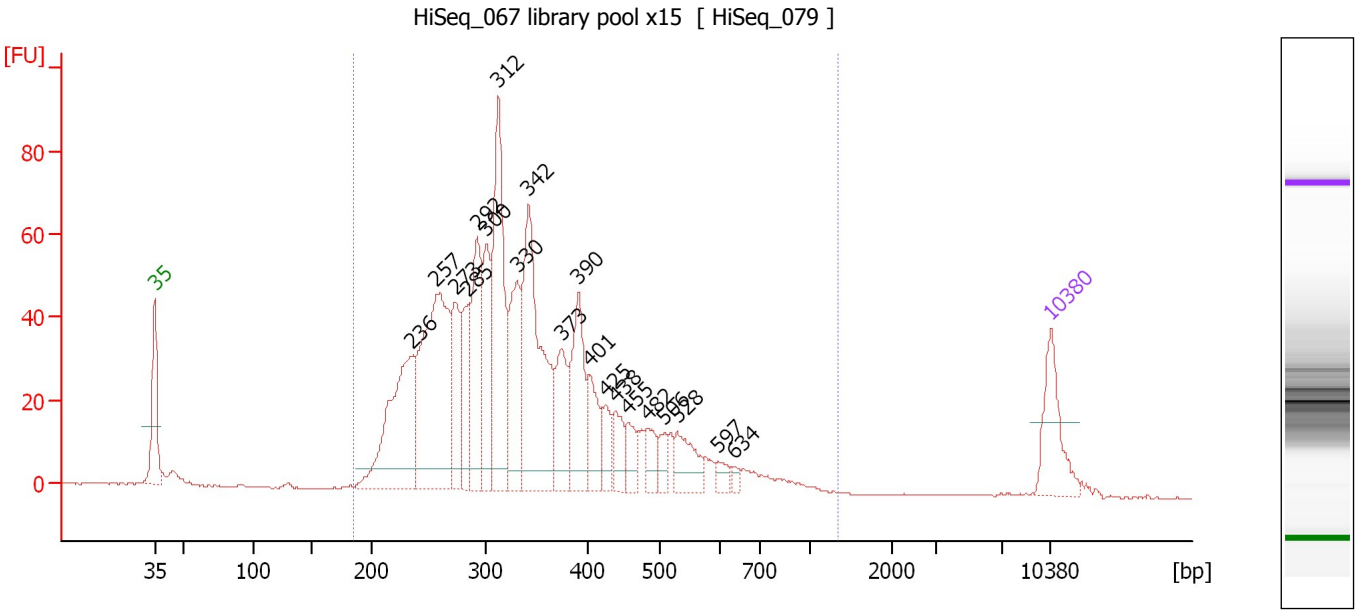
Region table for sample 5 : Connor Library (1:2) (PrepXILM 320)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/µl]	Color
273	556	1,897	2,399.6	9,940.8	99	24.4	3,409.29	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-23\2015-03-23_001.xad

Created: 3/23/2015 3:53:27 PM
Modified: 3/23/2015 4:29:03 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : HiSeq_067 library pool x15

Number of peaks found:	20	Corr. Area 1:	1,245.3
Noise:	0.2		

Peak table for sample 6 : HiSeq_067 library pool x15

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		236	299.73	1,925.4		63.12
3		257	438.99	2,588.5		65.02
4		273	120.38	668.0		66.47
5		285	101.58	540.6		67.51
6		292	182.74	946.6		68.21
7		300	127.38	642.7		68.91
8		312	302.67	1,469.1		69.86
9		330	151.95	697.1		71.31
10		342	356.01	1,579.4		72.21
11		373	100.97	409.7		74.75
12		390	147.44	572.4		76.10
13		401	72.61	274.2		76.95
14		425	44.93	160.2		78.30
15		438	45.24	156.4		79.05
16		455	37.21	123.9		80.00
17		482	35.47	111.4		81.54
18		506	25.96	77.7		82.84
19		528	63.90	183.3		83.84
20		597	18.49	46.9		87.04
21		634	9.47	22.6		88.24
22	▶	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-23\2015-03-23_001.xad

Created: 3/23/2015 3:53:27 PM
Modified: 3/23/2015 4:29:03 PM

Electropherogram Summary Continued ...

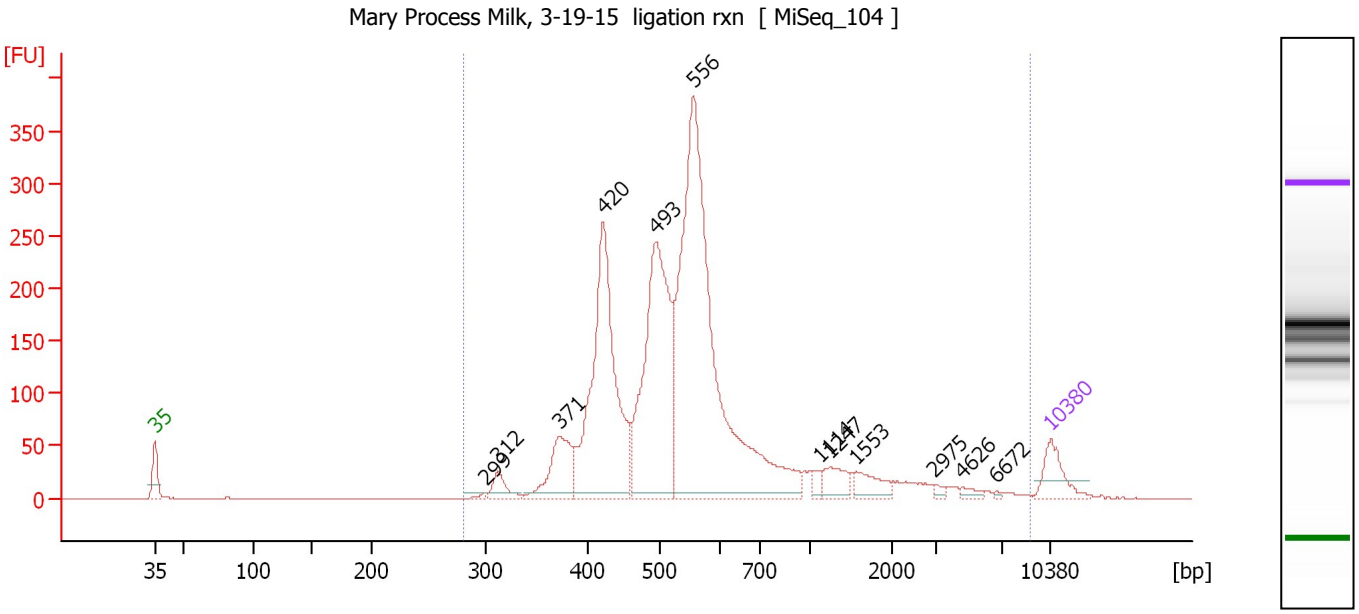
... Region table for sample 6 : HiSeq_067 library pool x15

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/µl]	Color
185	350	1,344	1,245.3	13,432.0	99	32.6	2,789.23	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-23\2015-03-23_001.xad

Created: 3/23/2015 3:53:27 PM
Modified: 3/23/2015 4:29:03 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : Mary Process Milk, 3-19-15 ligation rxn

Number of peaks found:	12	Corr. Area 1:	3,340.2
Noise:	0.1		

Peak table for sample 7 : Mary Process Milk, 3-19-15 ligation rxn

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	299	7.83	39.7		68.79
3	312	59.16	287.3		69.85
4	371	200.43	818.3		74.57
5	420	825.51	2,976.6		78.03
6	493	813.40	2,500.7		82.14
7	556	1,549.25	4,220.9		85.13
8	1,114	22.34	30.4		94.93
9	1,247	59.82	72.6		95.79
10	1,553	59.99	58.5		97.77
11	2,975	11.73	6.0		103.96
12	4,626	15.35	5.0		106.15
13	6,672	3.99	0.9		108.79
14	10,380	75.00	10.9	Upper Marker	113.00

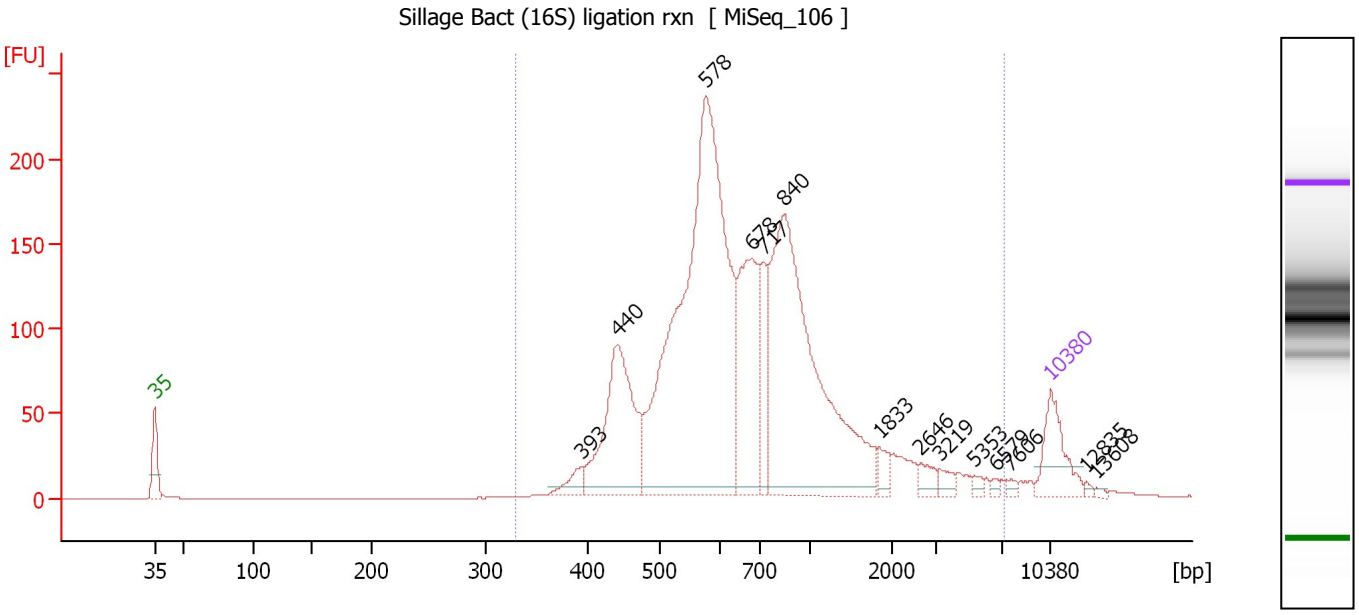
Region table for sample 7 : Mary Process Milk, 3-19-15 ligation rxn

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/µl]	Color
280	732	8,902	3,340.2	10,861.5	99	100.0	3,740.66	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-23\2015-03-23_001.xad

Created: 3/23/2015 3:53:27 PM
Modified: 3/23/2015 4:29:03 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : Sillage Bact (16S) ligation rxn

Number of peaks found:	14	Corr. Area 1:	2,880.3
Noise:	0.2		

Peak table for sample 8 : Sillage Bact (16S) ligation rxn

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	393	31.48	121.3		76.34
3	440	309.73	1,066.5		79.15
4	578	1,097.74	2,878.5		86.13
5	678	266.61	595.8		89.65
6	717	98.60	208.4		90.57
7	840	705.71	1,272.2		92.15
8	1,833	23.00	19.0		99.59
9	2,646	19.95	11.4		102.85
10	3,219	15.38	7.2		104.33
11	5,353	7.56	2.1		107.09
12	6,579	5.01	1.2		108.67
13	7,606	6.23	1.2		109.89
14	10,380	75.00	10.9	Upper Marker	113.00
15	12,835	0.00	0.0		115.75
16	13,608	0.00	0.0		116.62

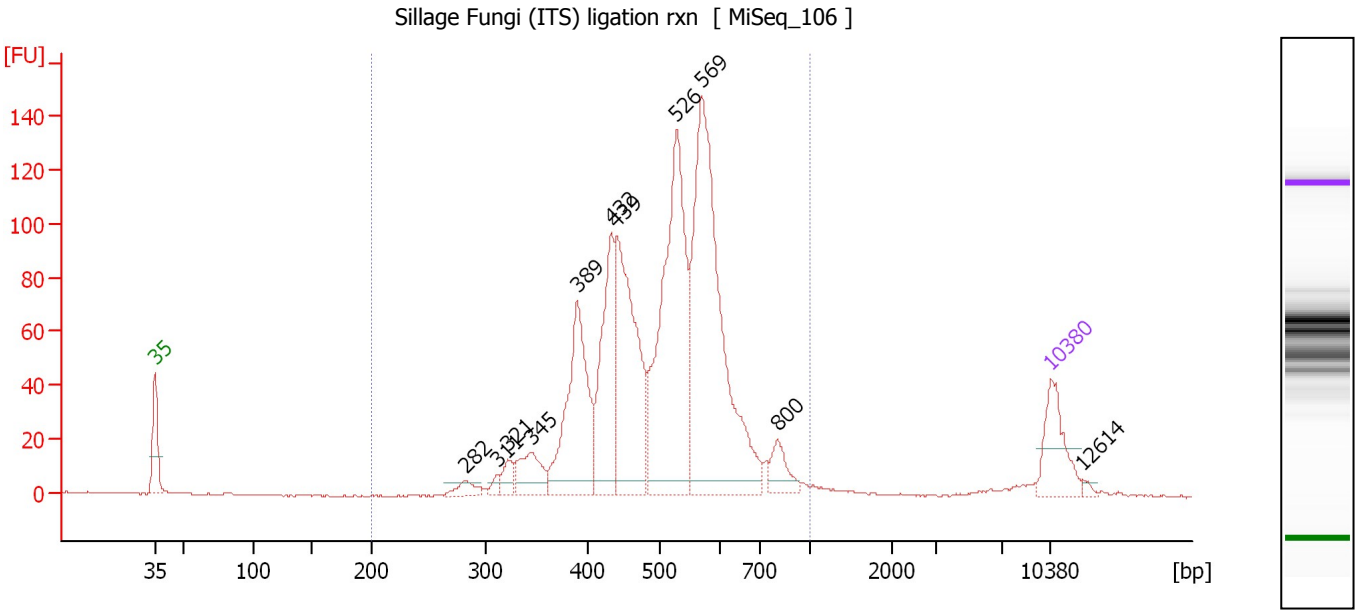
Region table for sample 8 : Sillage Bact (16S) ligation rxn

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/µl]	Color
328	905	7,076	2,880.3	6,363.3	97	92.7	2,719.19	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-23\2015-03-23_001.xad

Created: 3/23/2015 3:53:27 PM
Modified: 3/23/2015 4:29:03 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : Sillage Fungi (ITS) ligation rxn

Number of peaks found:	11	Corr. Area 1:	1,476.3
Noise:	0.2		

Peak table for sample 9 : Sillage Fungi (ITS) ligation rxn

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	282	26.38	141.7		67.29
3	311	11.54	56.2		69.79
4	321	32.31	152.6		70.56
5	345	75.53	332.1		72.45
6	389	283.37	1,104.5		75.98
7	432	228.34	801.0		78.69
8	439	341.90	1,179.6		79.10
9	526	512.36	1,475.3		83.75
10	569	628.66	1,672.7		85.75
11	800	44.99	85.2		91.63
12	10,380	75.00	10.9	Upper Marker	113.00
13	12,614	0.00	0.0		115.51

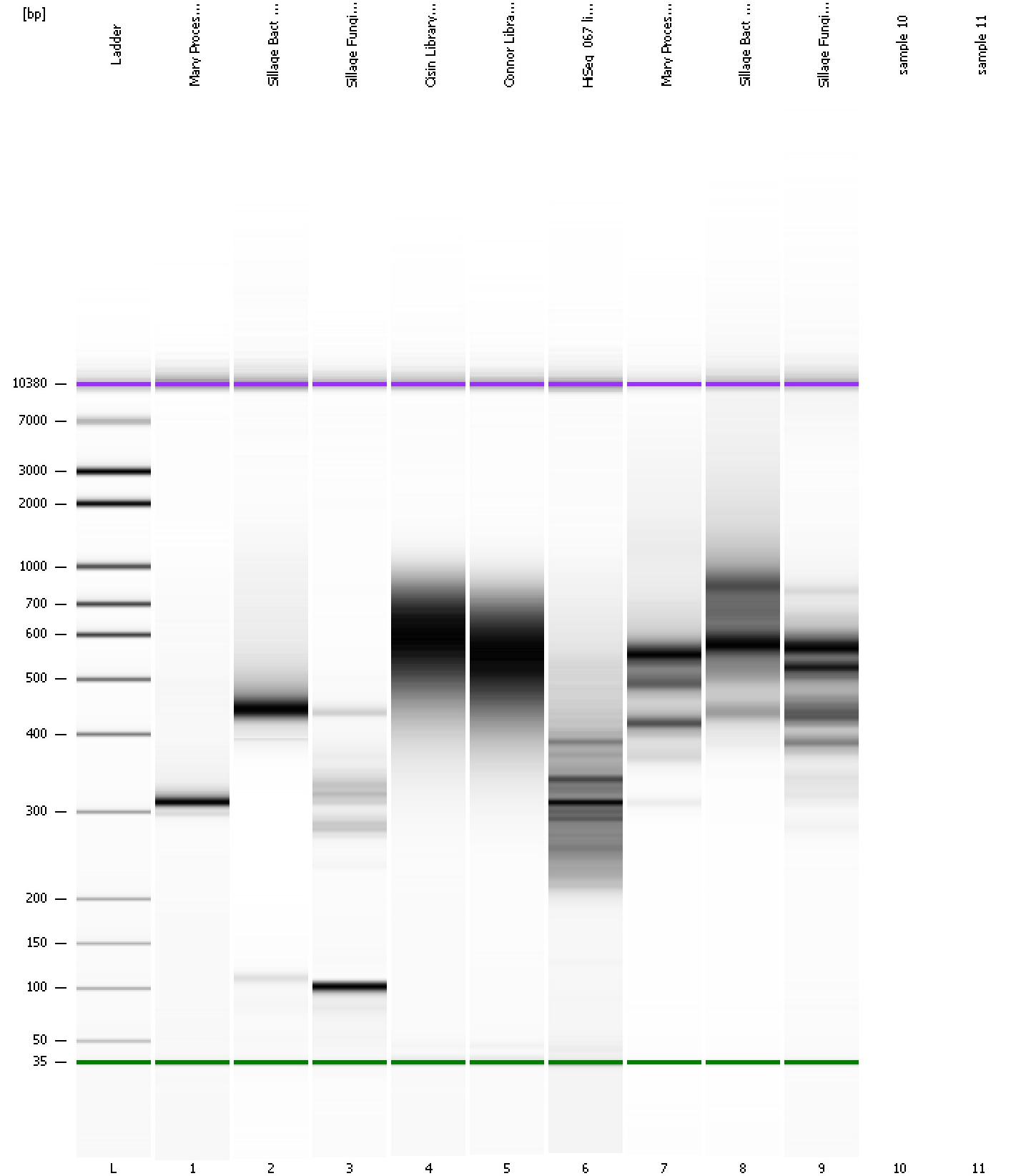
Region table for sample 9 : Sillage Fungi (ITS) ligation rxn

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/µl]	Color
200	509	1,000	1,476.3	6,968.0	97	20.3	2,212.67	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-23\2015-03-23_001.xad

Created: 3/23/2015 3:53:27 PM
Modified: 3/23/2015 4:29:03 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-23\2015-03-23_001.xad

Created: 3/23/2015 3:53:27 PM
Modified: 3/23/2015 4:29:03 PM

Invalid Samples

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-23\2015-03-23_001.xad

Created: 3/23/2015 3:53:27 PM
Modified: 3/23/2015 4:29:03 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 10)		Instrument	Run		3/23/2015 4:29:00 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-03-23\2015-03-23_001.xad)		Instrument	Run		3/23/2015 3:53:32 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		3/23/2015 3:53:32 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/23/2015 3:53:32 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/23/2015 3:53:32 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		3/23/2015 3:53:32 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/23/2015 3:53:32 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/23/2015 3:53:32 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1