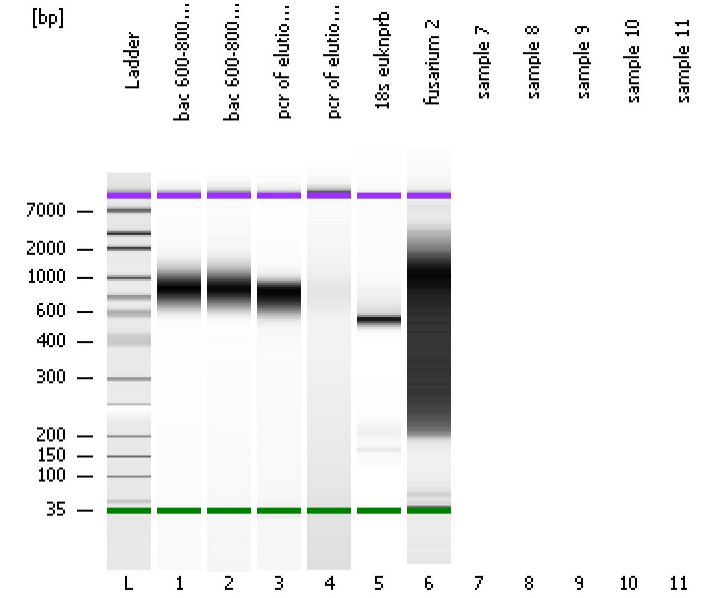
Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-16\2014-04-16_002.xad

Created: 4/16/2014 3:25:33 PM
Modified: 4/17/2014 10:31:52 AM

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

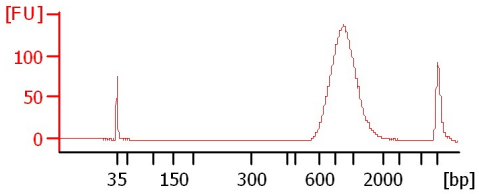
Chip Information:

Chip Lot #:

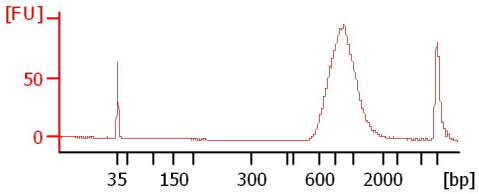
Reagent Kit Lot #:

Chip Comments:

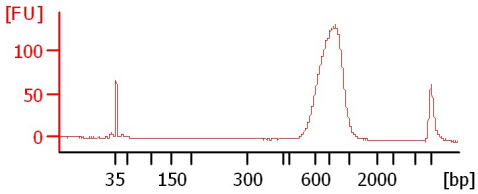
bac 600-800 elution 1



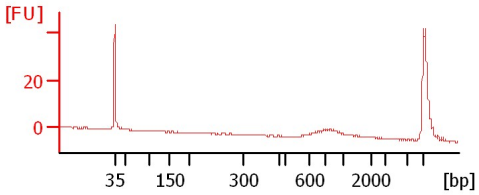
bac 600-800 elution 2



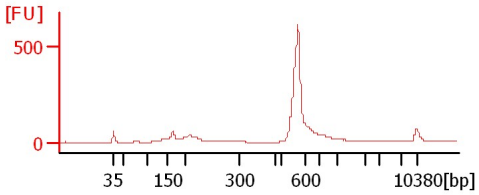
pcr of elution 1



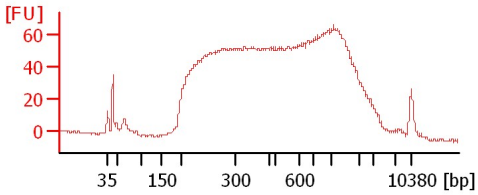
pcr of elution 2



18s euknprb



fusarium 2



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-16\2014-04-16_002.xad

Created: 4/16/2014 3:25:33 PM
Modified: 4/17/2014 10:31:52 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
bac 600-800 elution 1		☐	✔			
bac 600-800 elution 2		☐	✔			
pcr of elution 1		☐	✔			
pcr of elution 2		☐	✔			
18s euknprb		☐	✔			
fusarium 2		☐	✔			
sample 7		☐				
sample 8		☐				
sample 9		☐				
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\2014-04-16\2014-04-16_002.xad

Created: 4/16/2014 3:25:33 PM
Modified: 4/17/2014 10:31:52 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

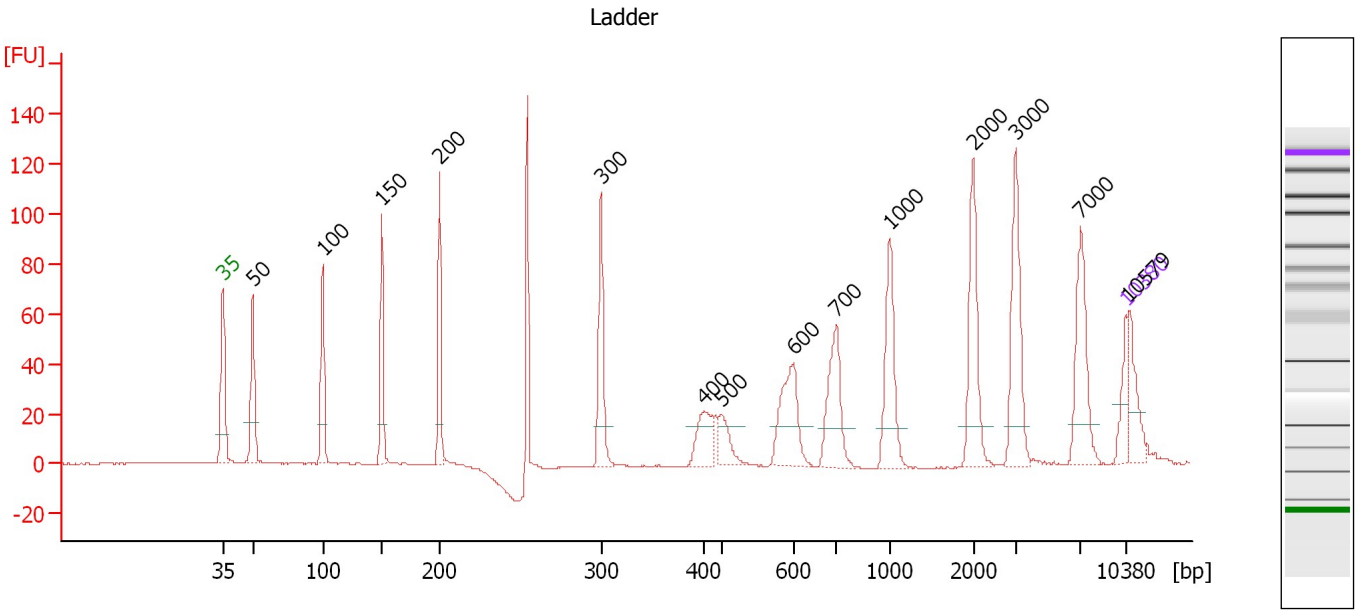
Ladder

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:\...ents and Settings\Bioanalyzer\2014-04-16\2014-04-16_002.xad

Created: 4/16/2014 3:25:33 PM
Modified: 4/17/2014 10:31:52 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

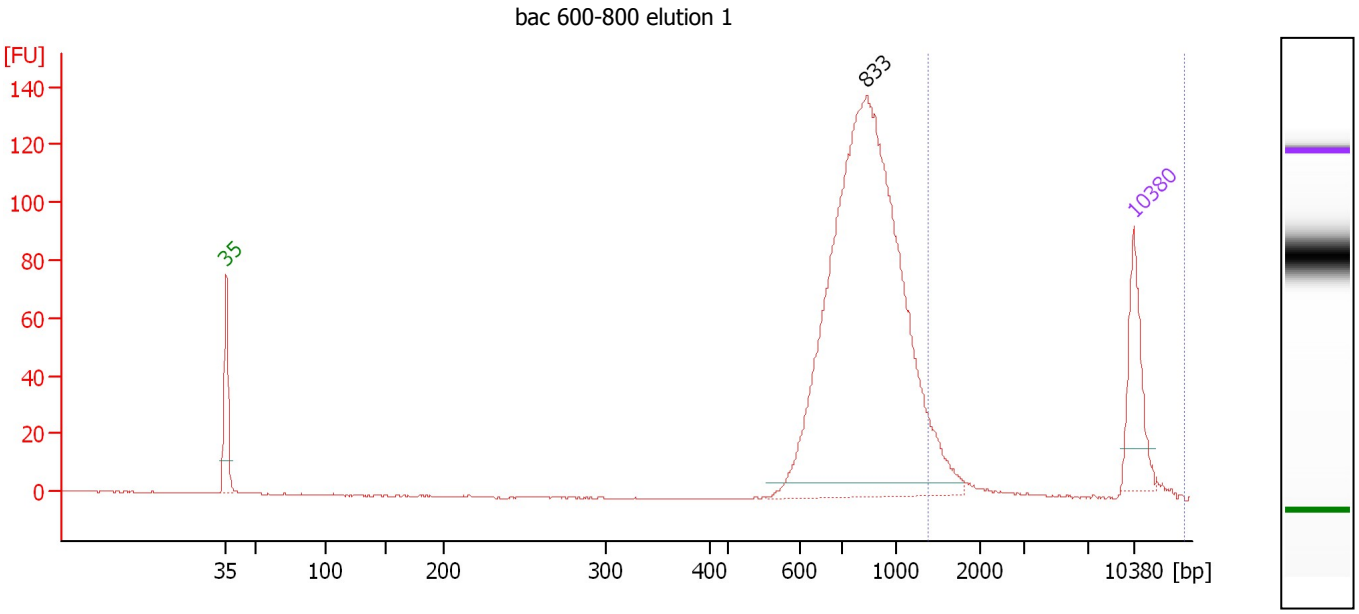
Peak table for Ladder

Peak		Aligned Migration Time [s]	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1		43.00	35	125.00	5,411.3	Lower Marker
2		45.32	50	150.00	4,545.5	Ladder Peak
3		50.73	100	150.00	2,272.7	Ladder Peak
4		55.32	150	150.00	1,515.2	Ladder Peak
5		59.79	200	150.00	1,136.4	Ladder Peak
6		72.31	300	150.00	757.6	Ladder Peak
7		80.29	400	150.00	568.2	Ladder Peak
8		81.70	500	150.00	454.5	Ladder Peak
9		87.24	600	150.00	378.8	Ladder Peak
10		90.55	700	150.00	324.7	Ladder Peak
11		94.72	1,000	150.00	227.3	Ladder Peak
12		101.17	2,000	150.00	113.6	Ladder Peak
13		104.48	3,000	150.00	75.8	Ladder Peak
14		109.49	7,000	150.00	32.5	Ladder Peak
15		113.00	10,380	75.00	10.9	Upper Marker
16		113.21	10,579	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-16\2014-04-16_002.xad

Created: 4/16/2014 3:25:33 PM
Modified: 4/17/2014 10:31:52 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : bac 600-800 elution 1

Number of peaks found:	1	Corr. Area 1:	73.1
Noise:	0.2		

Peak table for sample 1 : bac 600-800 elution 1

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	92.39	833	1,025.17	1,865.5	
3	113.00	10,380	75.00	10.9	Upper Marker

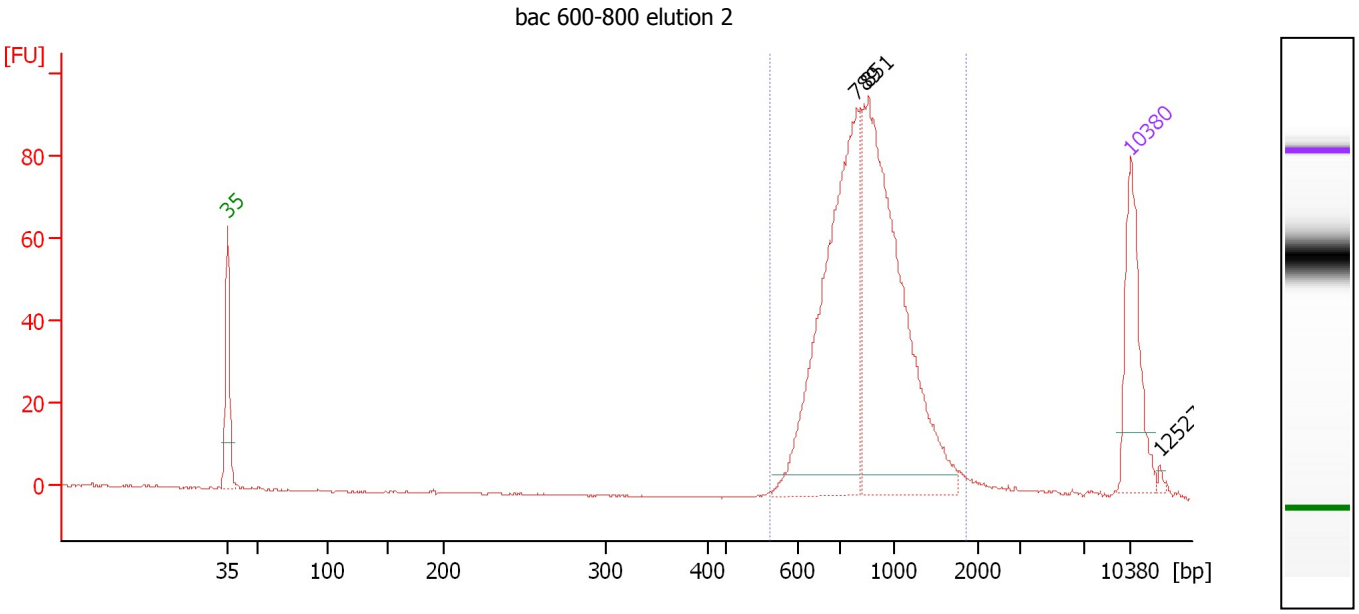
Region table for sample 1 : bac 600-800 elution 1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Color Area	% of Total	Size distribution in CV [%]
1,363	14,138	7,629	50.9	63.26	73.1	7	55.4

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-16\2014-04-16_002.xad

Created: 4/16/2014 3:25:33 PM
Modified: 4/17/2014 10:31:52 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : bac 600-800 elution 2

Number of peaks found:	3	Corr. Area 1:	727.3
Noise:	0.2		

Peak table for sample 2 : bac 600-800 elution 2

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	91.79	789	341.04	654.8	
3	92.66	851	381.40	678.7	
4	113.00	10,380	75.00	10.9	Upper Marker
5	115.23	12,527	0.00	0.0	

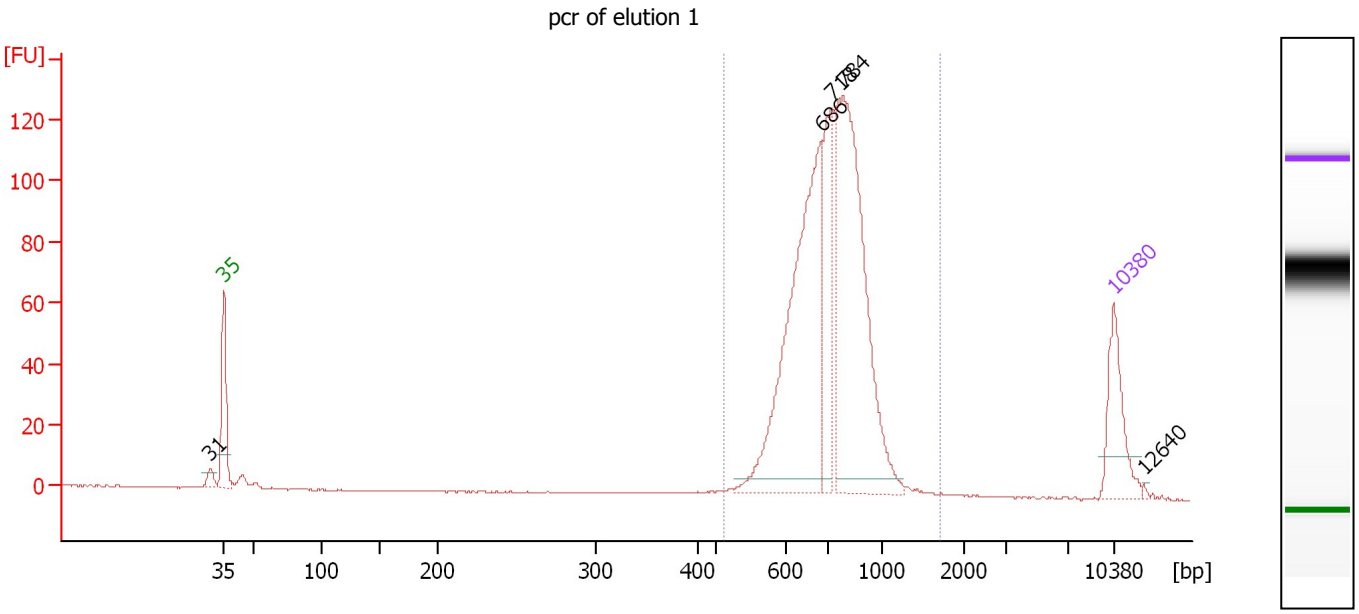
Region table for sample 2 : bac 600-800 elution 2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Co Corr. Ior Area	% of Total	Size distribution in CV [%]
559	1,856	880	1,332.0	725.62	727.3	96	26.7

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-16\2014-04-16_002.xad

Created: 4/16/2014 3:25:33 PM
Modified: 4/17/2014 10:31:52 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : pcr of elution 1

Number of peaks found:	5	Corr. Area 1:	926.1
Noise:	0.2		

Peak table for sample 3 : pcr of elution 1

Peak		Aligned Migration Time [s]	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1		41.91	31	0.00	0.0	
2		43.00	35	125.00	5,411.3	Lower Marker
3		90.09	686	487.85	1,077.5	
4		90.80	718	143.78	303.4	
5		91.72	784	488.09	942.8	
6		113.00	10,380	75.00	10.9	Upper Marker
7		115.35	12,640	0.00	0.0	

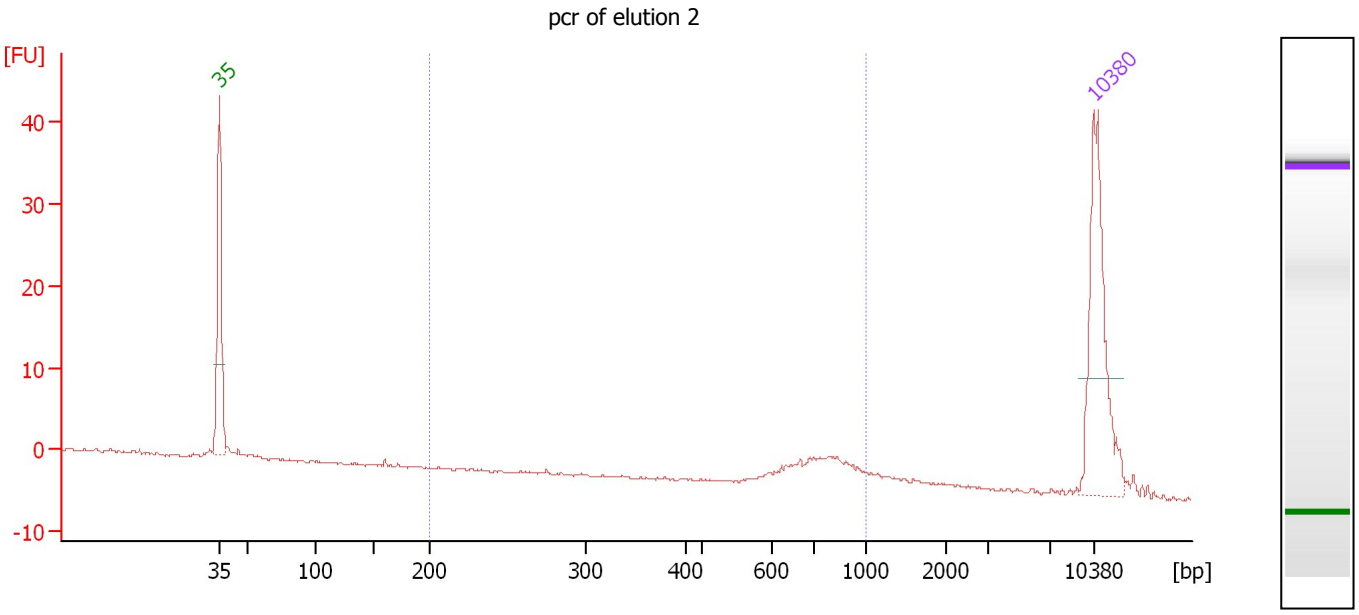
Region table for sample 3 : pcr of elution 1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
512	1,720	744	2,423.2	1,156.61	926.1	96	17.8

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-16\2014-04-16_002.xad

Created: 4/16/2014 3:25:33 PM
Modified: 4/17/2014 10:31:52 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : pcr of elution 2

Number of peaks found:	0	Corr. Area 1:	21.2
Noise:	0.2		

Peak table for sample 4 : pcr of elution 2

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	113.00	10,380	75.00	10.9	Upper Marker

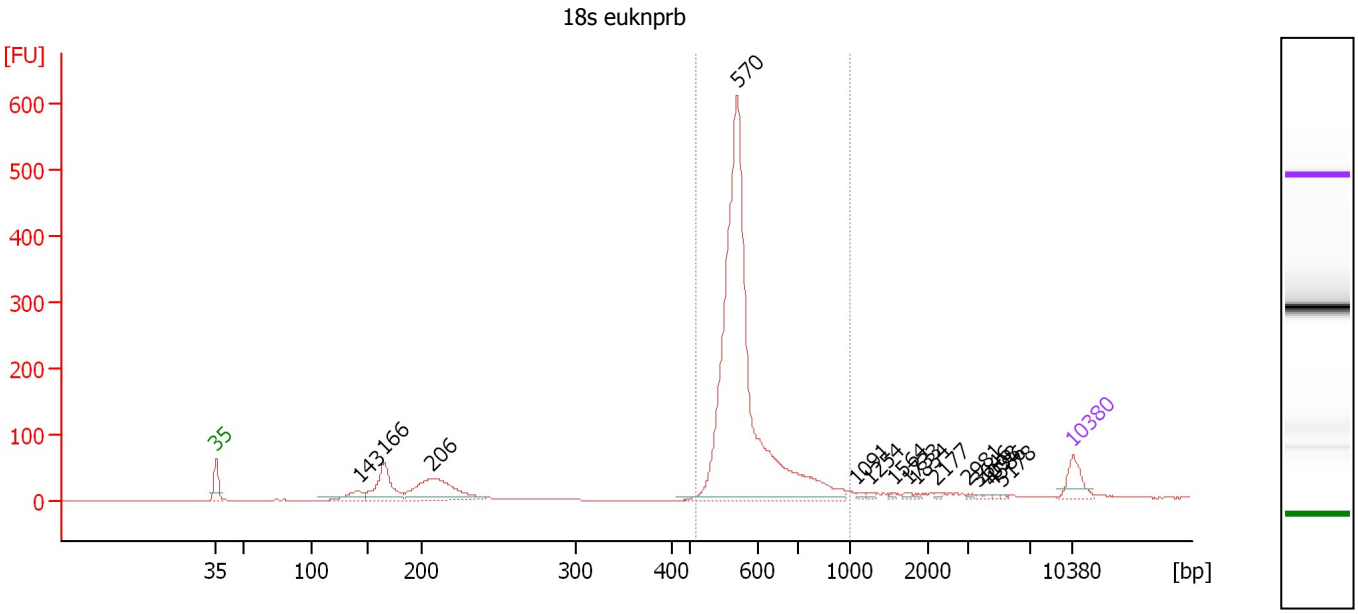
Region table for sample 4 : pcr of elution 2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	760	69.6	34.10	21.2	57	15.0

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-16\2014-04-16_002.xad

Created: 4/16/2014 3:25:33 PM
Modified: 4/17/2014 10:31:52 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 18s euknprb

Number of peaks found:	15	Corr. Area 1:	1,694.0
Noise:	0.1		

Peak table for sample 5 : 18s euknprb

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	54.72	143	86.78	916.7	
3	56.72	166	262.46	2,400.3	
4	60.55	206	348.76	2,563.6	
5	85.56	570	2,237.78	5,952.4	
6	95.31	1,091	11.68	16.2	
7	96.36	1,254	8.27	10.0	
8	98.36	1,564	6.41	6.2	
9	99.45	1,733	8.50	7.4	
10	100.11	1,834	5.80	4.8	
11	101.76	2,177	5.87	4.1	
12	104.42	2,981	5.76	2.9	
13	105.29	3,646	4.43	1.8	
14	105.86	4,098	3.97	1.5	
15	106.47	4,586	3.51	1.2	
16	107.21	5,178	3.09	0.9	
17	113.00	10,380	75.00	10.9	Upper Marker

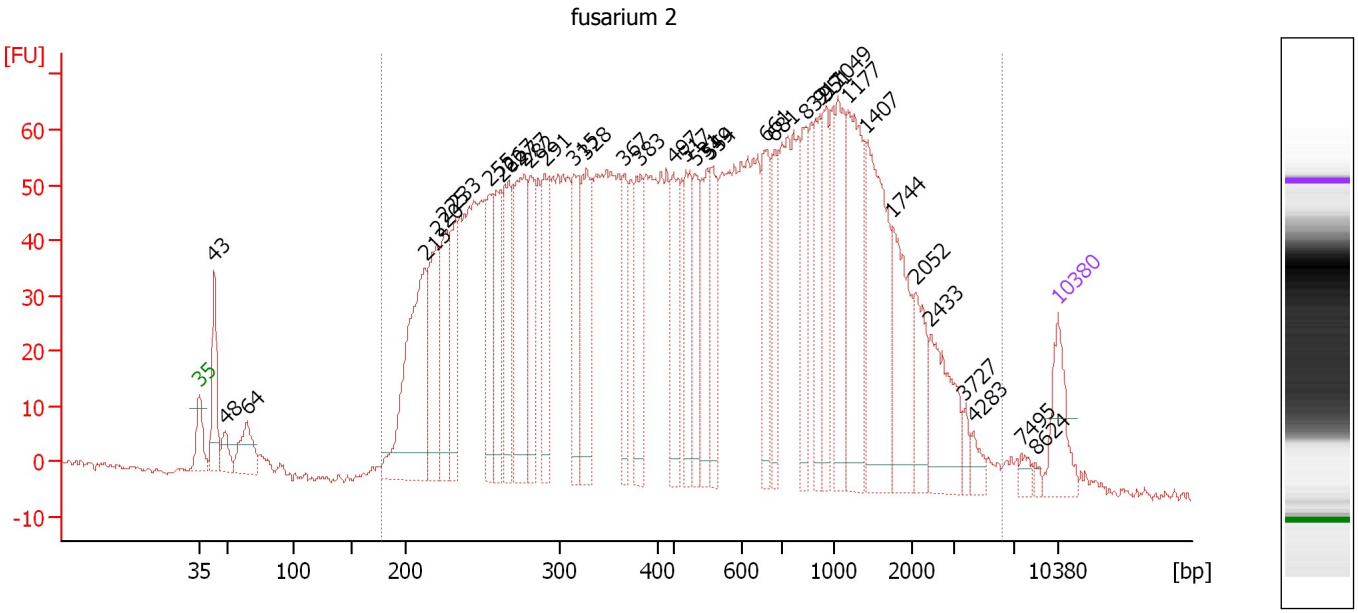
Region table for sample 5 : 18s euknprb

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
509	1,000	593	5,611.6	2,169.11	1,694.0	77	12.1

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-16\2014-04-16_002.xad

Created: 4/16/2014 3:25:33 PM
Modified: 4/17/2014 10:31:52 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : fusarium 2

Number of peaks found:	37	Corr. Area 1:	3,083.4
Noise:	0.6		

Peak table for sample 6 : fusarium 2

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	44.22	43	155.10	5,479.5	
3	45.04	48	47.52	1,492.5	
4	46.87	64	103.73	2,442.5	
5	61.39	213	424.55	3,022.7	
6	62.35	220	226.15	1,554.4	
7	62.96	225	166.78	1,121.6	
8	63.91	233	138.36	899.9	
9	66.70	255	177.50	1,054.1	
10	67.57	262	154.56	893.5	
11	68.22	267	188.56	1,068.8	
12	69.48	277	296.70	1,620.8	
13	70.00	282	163.61	880.6	
14	71.17	291	181.33	944.5	
15	73.52	315	171.35	823.9	
16	74.57	328	215.52	995.0	
17	77.65	367	116.26	480.1	
18	78.96	383	146.41	578.9	
19	81.65	497	138.63	423.0	
20	82.65	517	143.46	420.3	
21	83.43	531	108.90	310.6	
22	84.39	549	129.06	356.5	
23	84.70	554	106.92	292.4	
24	89.26	661	135.80	311.2	
25	89.91	681	98.41	219.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-16\2014-04-16_002.xad

Created: 4/16/2014 3:25:33 PM
Modified: 4/17/2014 10:31:52 AM

Electropherogram Summary Continued ...

... Peak table for sample 6 : fusarium 2

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
26	92.39	832	120.03	218.5	
27	93.57	917	117.75	194.6	
28	94.04	951	95.41	152.0	
29	95.04	1,049	150.81	217.7	
30	95.87	1,177	235.08	302.5	
31	97.35	1,407	262.18	282.4	
32	99.52	1,744	158.50	137.7	
33	101.35	2,052	79.15	58.4	
34	102.61	2,433	121.78	75.8	
35	105.39	3,727	16.29	6.6	
36	106.09	4,283	21.01	7.4	
37	110.00	7,495	13.93	2.8	
38	111.17	8,624	5.32	0.9	
39	113.00	10,380	75.00	10.9	Upper Marker

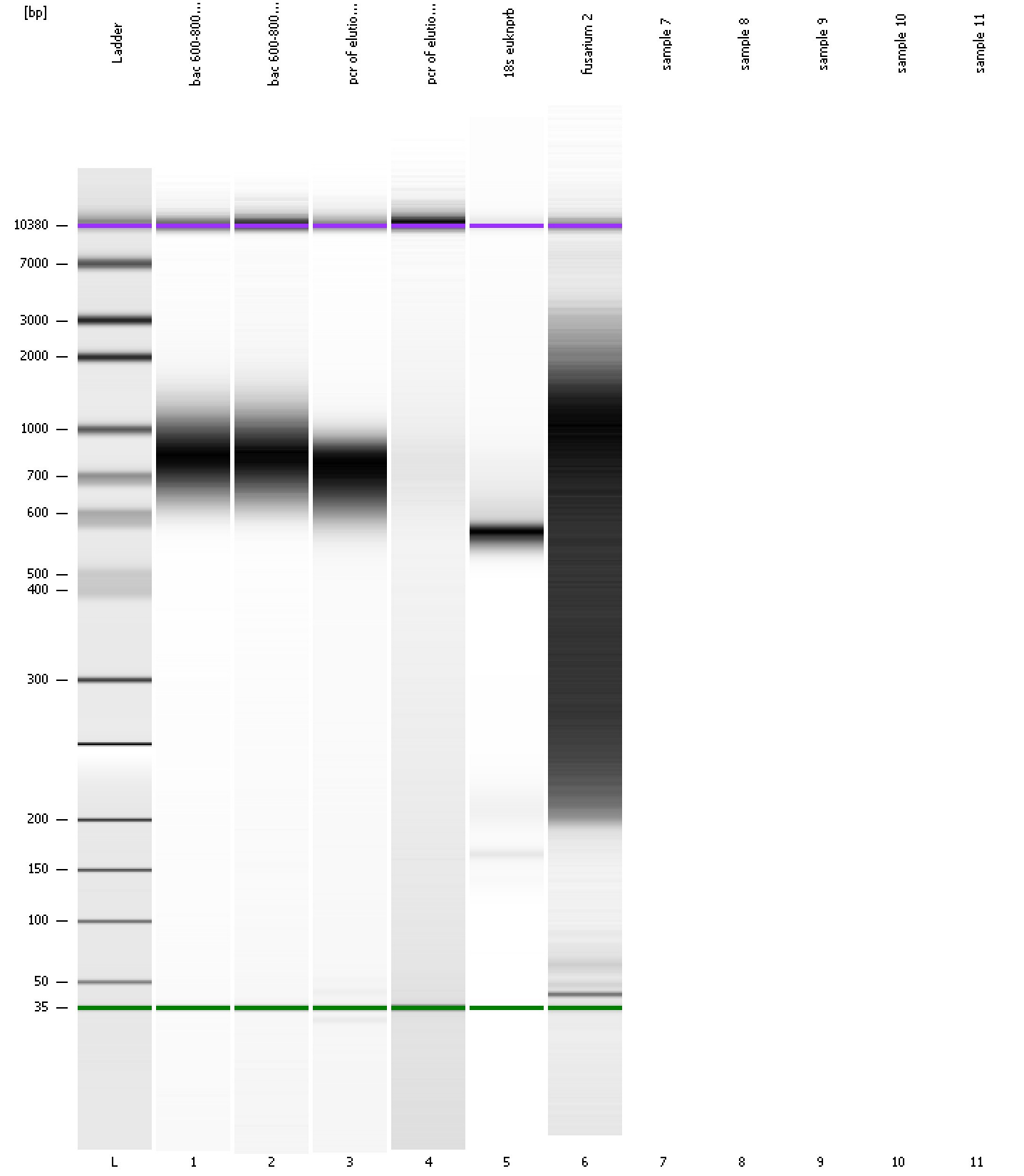
Region table for sample 6 : fusarium 2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Color Area	% of Total	Size distribution in CV [%]
178	6,110	739	32,311.6	8,191.54	3,083.4	97	94.1

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-16\2014-04-16_002.xad

Created: 4/16/2014 3:25:33 PM
Modified: 4/17/2014 10:31:52 AM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-16\2014-04-16_002.xad

Created: 4/16/2014 3:25:33 PM
Modified: 4/17/2014 10:31:52 AM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 7)		Instrument	Run		4/16/2014 3:52:36 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-04-16\2014-04-16_002.xad)		Instrument	Run		4/16/2014 3:25:39 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		4/16/2014 3:25:39 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/16/2014 3:25:39 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/16/2014 3:25:39 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		4/16/2014 3:25:39 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/16/2014 3:25:39 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/16/2014 3:25:39 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1