

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...expert\data\2016-03-24\2016-03-24_001_Browne_BluePippin.xad

Created: 3/24/2016 1:45:35 PM
Modified: 3/28/2016 9:24:26 AM

Electrophoresis File Run Summary

Instrument Information:

Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

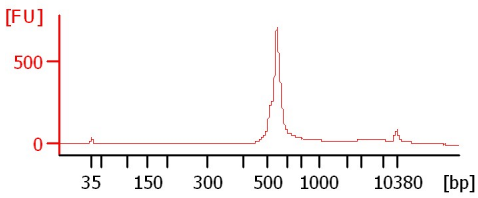
Assay Information:

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

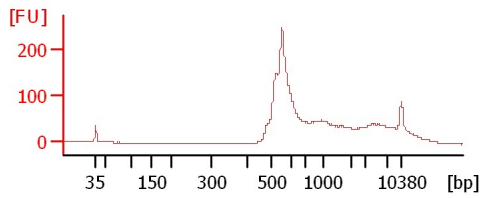
Chip Information:

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

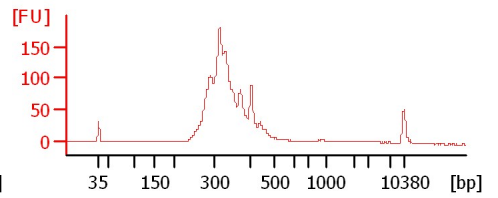
16S A 1:3



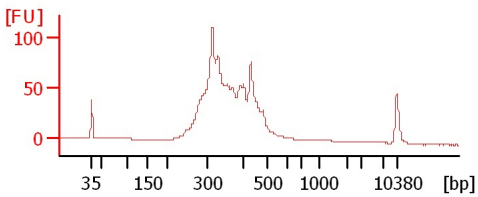
16S redo 1:3



ITS redo BP



ITS A



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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
16S A 1:3		<input type="checkbox"/>	✓			
16S redo 1:3		<input type="checkbox"/>	✓			
ITS redo BP		<input type="checkbox"/>	✓			
ITS A		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

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

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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/ μ l] : 1950
Uses Standard Area for Ladder Fragments
Lower Marker Concentration [pg/ μ l] : 125
Upper Marker Concentration [pg/ μ l] : 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

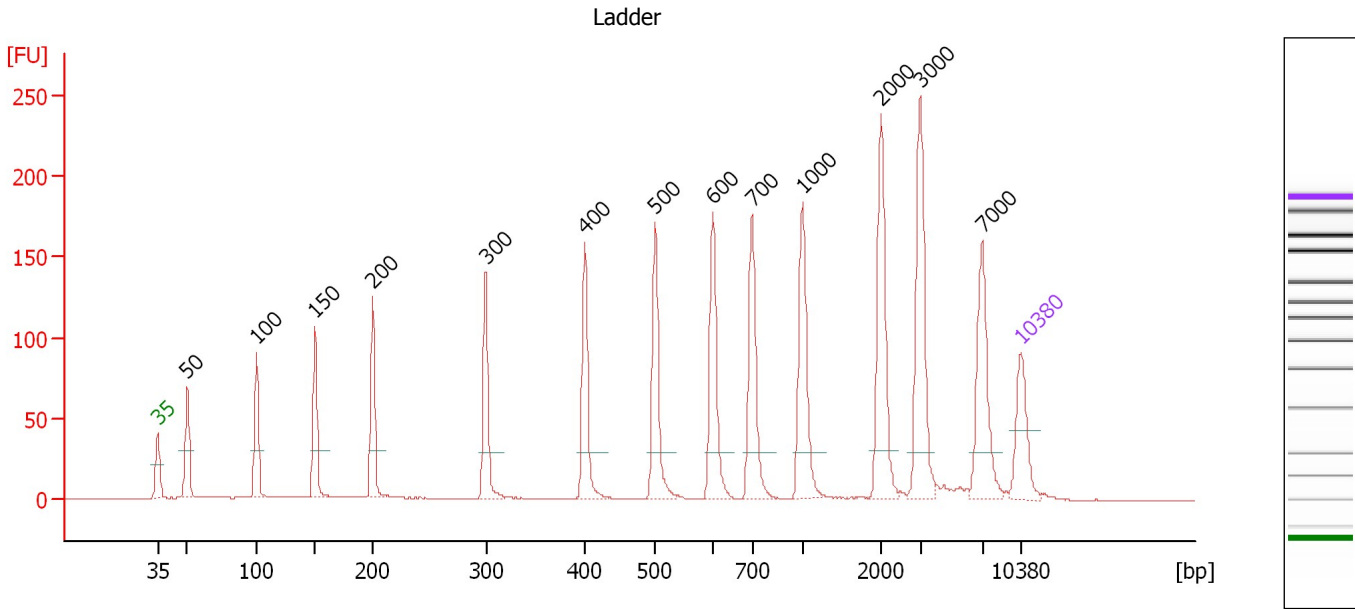
Ladder

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

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Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

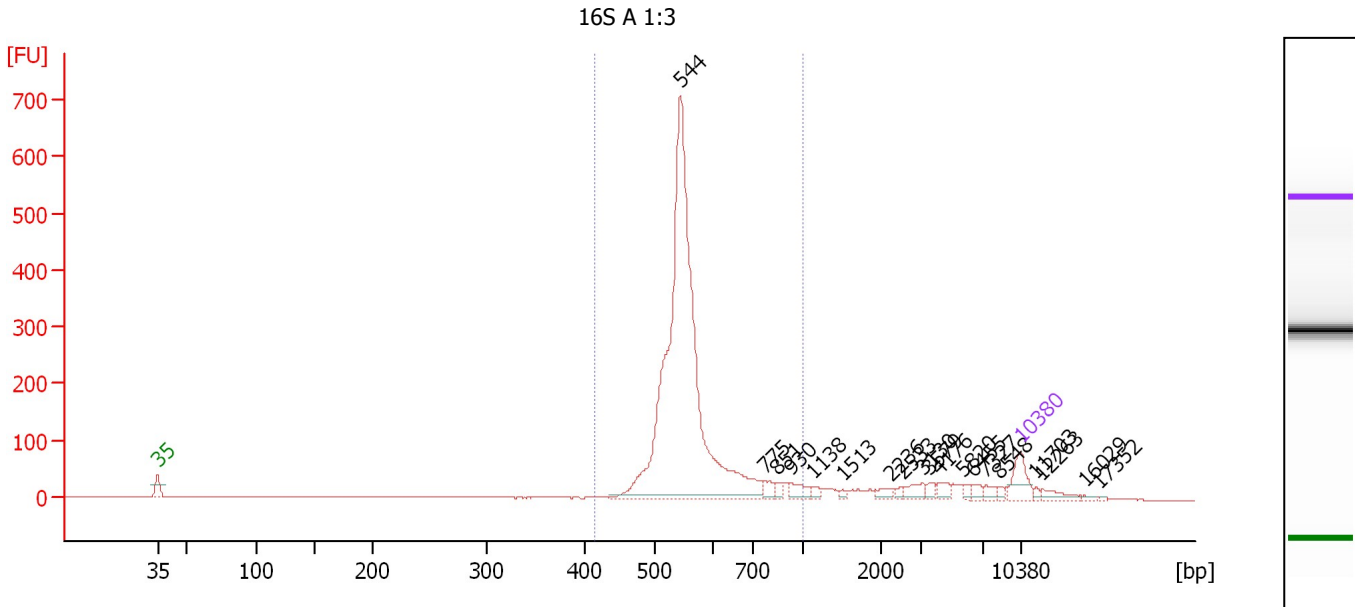
Peak table for Ladder

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	50	150.00	4,545.5	Ladder Peak	45.42
3	100	150.00	2,272.7	Ladder Peak	51.05
4	150	150.00	1,515.2	Ladder Peak	55.75
5	200	150.00	1,136.4	Ladder Peak	60.45
6	300	150.00	757.6	Ladder Peak	69.62
7	400	150.00	568.2	Ladder Peak	77.67
8	500	150.00	454.5	Ladder Peak	83.35
9	600	150.00	378.8	Ladder Peak	88.05
10	700	150.00	324.7	Ladder Peak	91.22
11	1,000	150.00	227.3	Ladder Peak	95.31
12	2,000	150.00	113.6	Ladder Peak	101.69
13	3,000	150.00	75.8	Ladder Peak	104.86
14	7,000	150.00	32.5	Ladder Peak	109.88
15	10,380	75.00	10.9	Upper Marker	113.00

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Electropherogram Summary Continued ...



Overall Results for sample 3 : 16S A 1:3

Number of peaks found: 19 Corr. Area 1: 2,168.5
 Noise: 0.4

Peak table for sample 3 : 16S A 1:3

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	544	2,149.01	5,980.6		85.44
3	775	29.67	58.0		92.25
4	851	19.83	35.3		93.28
5	930	42.61	69.4		94.36
6	1,138	13.49	18.0		96.19
7	1,513	8.69	8.7		98.59
8	2,236	23.05	15.6		102.44
9	2,533	12.19	7.3		103.38
10	3,130	35.65	17.3		105.02
11	3,579	17.52	7.4		105.58
12	4,176	24.96	9.1		106.33
13	5,820	14.66	3.8		108.40
14	6,455	18.91	4.4		109.20
15	7,327	19.56	4.0		110.18
16	8,548	10.83	1.9		111.31
17	10,380	75.00	10.9	Upper Marker	113.00
18	11,703	0.00	0.0		114.22
19	12,263	0.00	0.0		114.74
20	16,029	0.00	0.0		118.21
21	17,352	0.00	0.0		119.43

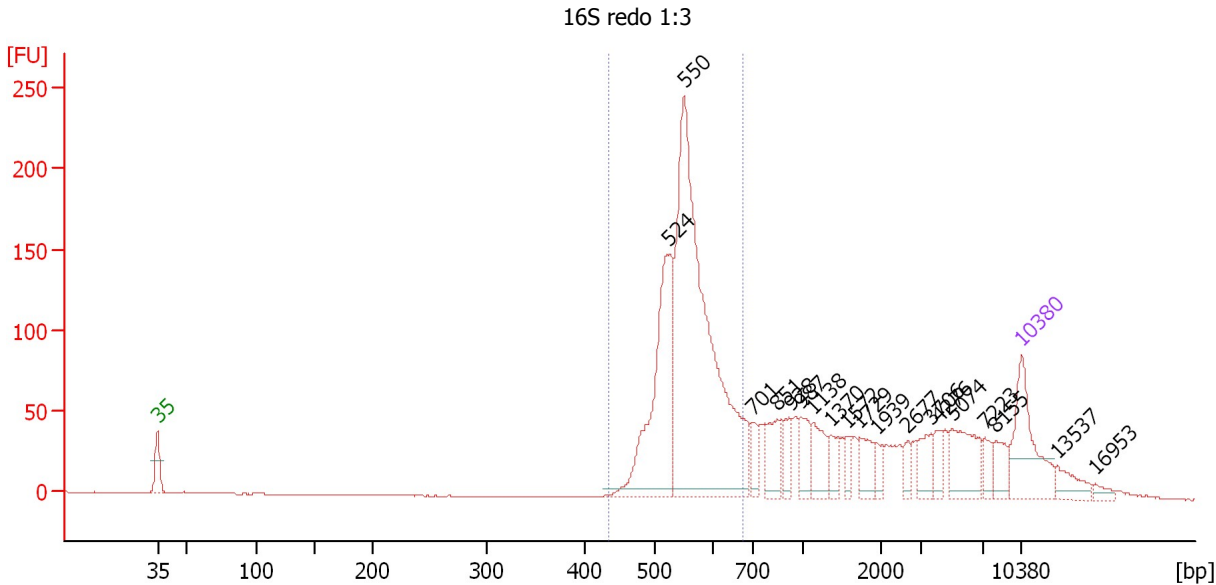
Region table for sample 3 : 16S A 1:3

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
415	1,000	569	2,168.5	6,137.9	2,259.58	79	15.0

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Electropherogram Summary Continued ...



Overall Results for sample 4 : 16S redo 1:3

Number of peaks found: 19 Corr. Area 1: 1,115.3
 Noise: 0.2

Peak table for sample 4 : 16S redo 1:3

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	524	239.84	693.1		84.49
3	550	588.53	1,622.2		85.69
4	701	22.19	48.0		91.23
5	851	44.45	79.1		93.28
6	928	23.83	38.9		94.33
7	987	31.98	49.1		95.14
8	1,138	37.33	49.7		96.19
9	1,370	17.69	19.6		97.67
10	1,572	13.84	13.3		98.96
11	1,729	17.69	19.6		99.96
12	1,939	14.04	11.0		101.30
13	2,677	11.33	6.4		103.83
14	3,706	25.96	10.6		105.74
15	4,276	17.82	6.3		106.46
16	5,074	56.70	16.9		107.46
17	7,223	15.27	3.2		110.09
18	8,155	22.54	4.2		110.95
19	10,380	75.00	10.9	Upper Marker	113.00
20	13,537	0.00	0.0		115.91
21	16,953	0.00	0.0		119.06

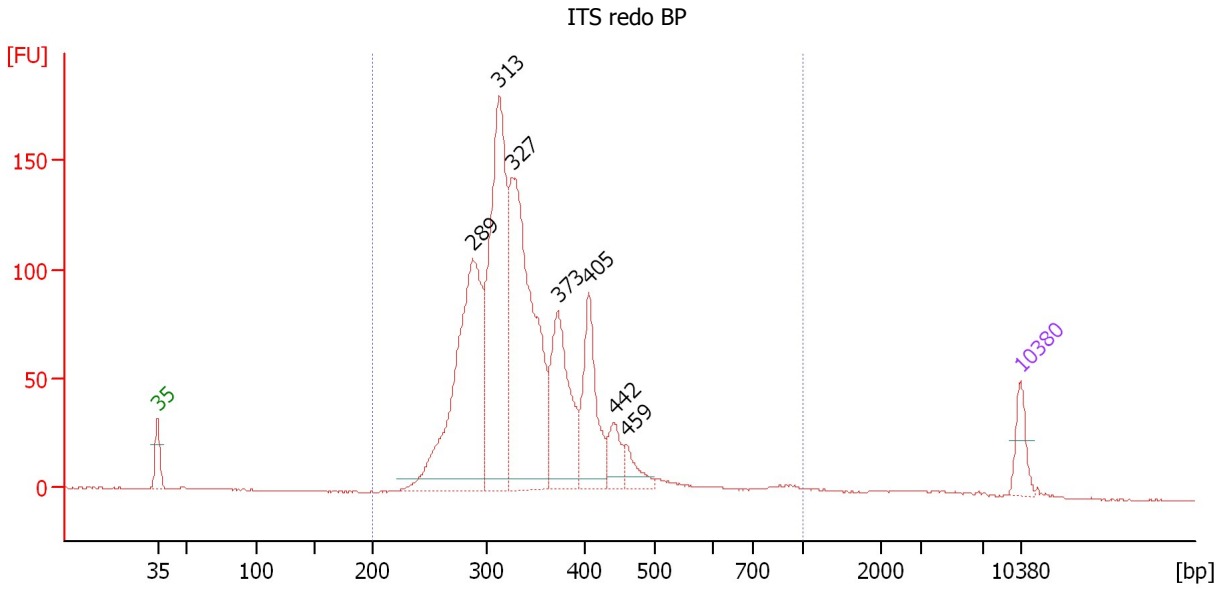
Region table for sample 4 : 16S redo 1:3

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
434	677	558	1,115.3	2,161.0	789.38	55	8.2

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Electropherogram Summary Continued ...



Overall Results for sample 5 : ITS redo BP

Number of peaks found: 7 Corr. Area 1: 1,768.5
 Noise: 0.2

Peak table for sample 5 : ITS redo BP

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	289	1,105.51	5,802.9		68.58
3	313	1,072.20	5,183.6		70.70
4	327	1,174.03	5,437.2		71.81
5	373	467.13	1,899.4		75.47
6	405	342.13	1,279.0		77.98
7	442	104.65	358.9		80.05
8	459	73.14	241.5		81.01
9	10,380	75.00	10.9	Upper Marker	113.00

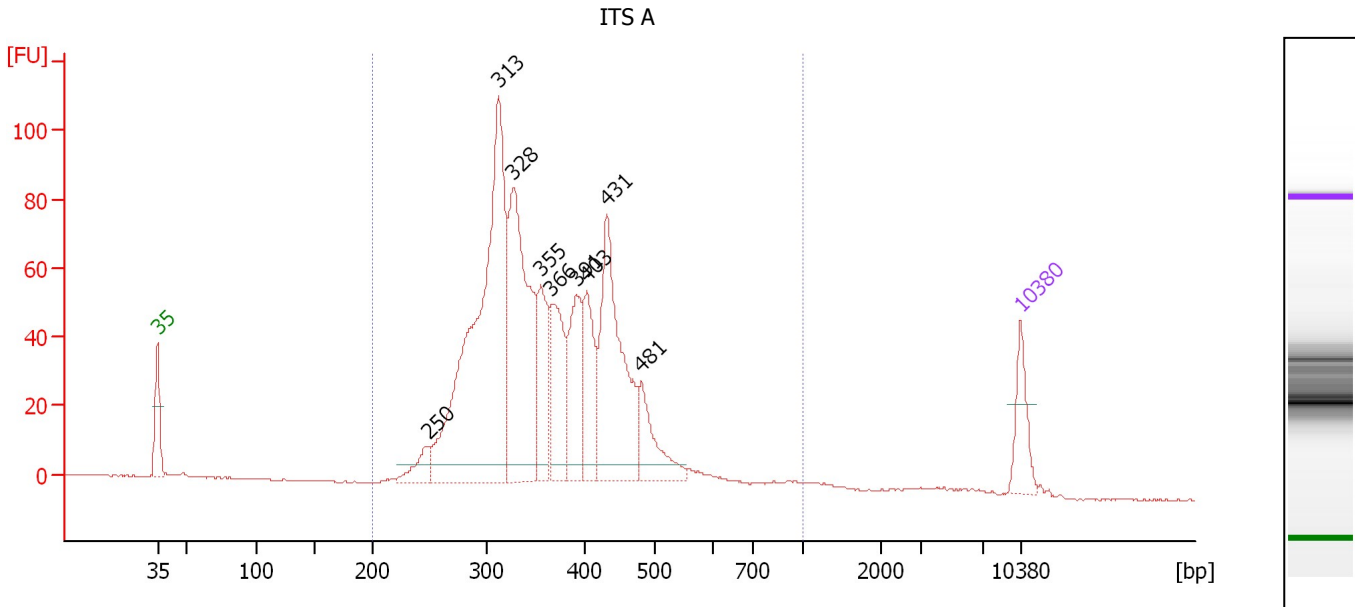
Region table for sample 5 : ITS redo BP

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	349	1,768.5	20,747.2	4,549.61	97	24.3

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Electropherogram Summary Continued ...



Overall Results for sample 6 : ITS A

Number of peaks found: 9 Corr. Area 1: 1,300.7
 Noise: 0.2

Peak table for sample 6 : ITS A

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	250	63.29	384.1		65.01
3	313	1,099.93	5,330.5		70.64
4	328	587.45	2,715.9		71.85
5	355	178.88	762.4		74.09
6	366	210.47	871.9		74.92
7	391	197.85	766.5		76.96
8	403	173.10	651.2		77.83
9	431	450.10	1,582.4		79.43
10	481	134.69	424.6		82.25
11	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 6 : ITS A

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	371	1,300.7	14,341.3	3,307.98	97	23.7

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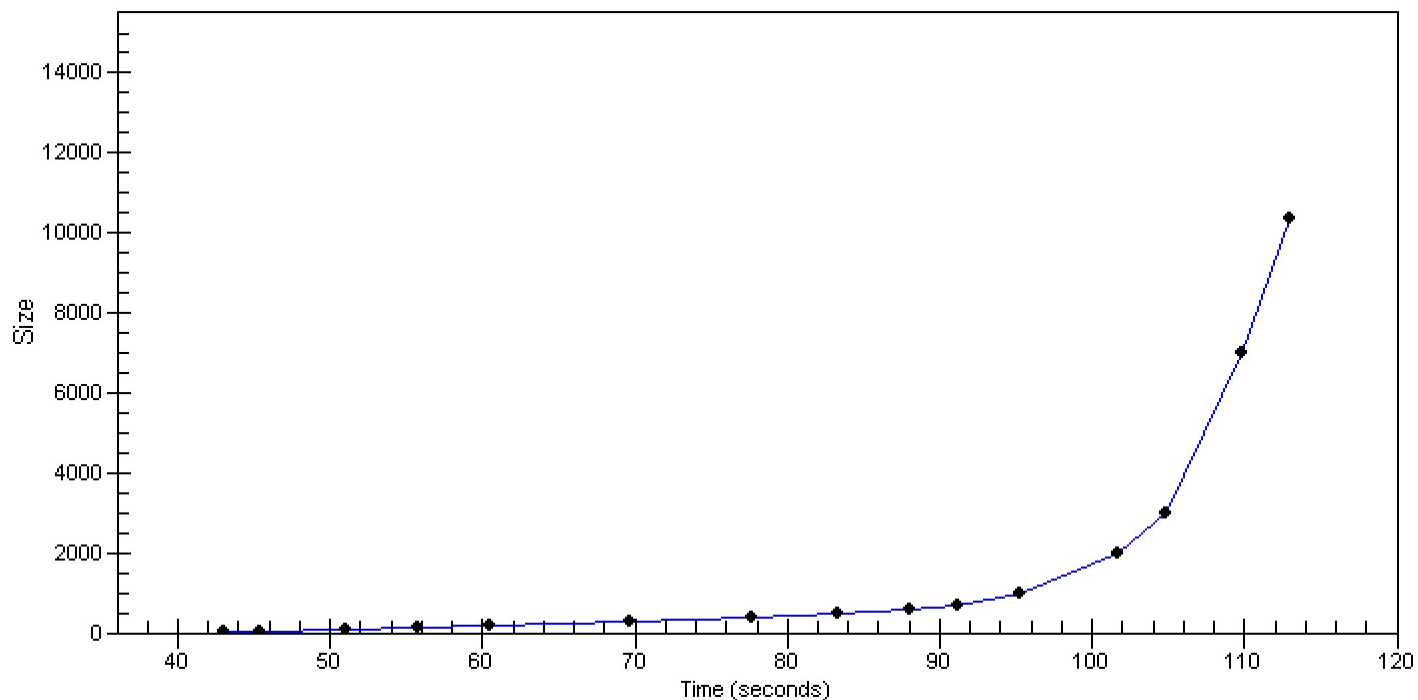
Gel Image

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Curves

Standard Curve



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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		3/24/2016 2:26:53 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-03-24\2016-03-24_001.xad)		Instrument	Run		3/24/2016 1:45:40 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		3/24/2016 1:45:40 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/24/2016 1:45:40 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/24/2016 1:45:40 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		3/24/2016 1:45:40 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/24/2016 1:45:40 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/24/2016 1:45:40 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1