

Assay Class: DNA 12000  
Data Path: C:\...-08-28\2015-08-28\_001\_HiSeq\_098\_Gel\_Extractions\_6kb\_8kb.xad

Created: 8/28/2015 11:15:26 AM  
Modified: 8/31/2015 4:15:12 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\DNA 12000 Series II.xsy

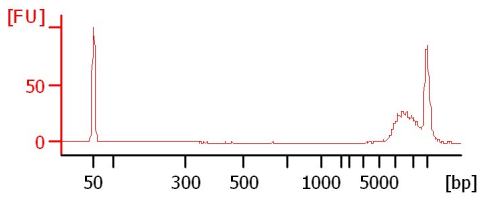
Assay Class: DNA 12000  
Version: 2.4  
Assay Comments: DNA Analysis 100 -12000 bp

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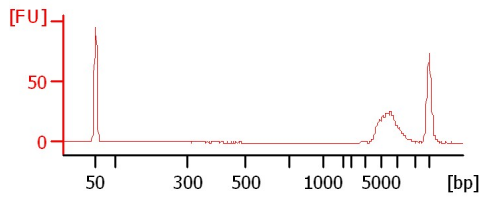
Chip Information:

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

HiSeq\_098 gel extraction 8kb



HiSeq\_098 gel extraction 6kb



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**Electrophoresis File Run Summary (Chip Summary)**

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
HiSeq_098 gel extraction 8kb		<input type="checkbox"/>	✓			
HiSeq_098 gel extraction 6kb		<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.) : 13  
 Minimum Visible Range [s] : 20  
 Maximum Visible Range [s] : 99  
 Start Analysis Time Range [s] : 20  
 End Analysis Time Range [s] : 98.95  
 Ladder Concentration [ng/μl] : 44  
 Uses Standard Area for Ladder Fragments  
 Lower Marker Concentration [ng/μl] : 8.3  
 Upper Marker Concentration [ng/μl] : 4.2  
 Used Upper Marker for Quantitation  
 This is a Qualitative Assay Only  
 Standard Curve Fit is Point to Point  
 Show Data Aligned to Lower and Upper Marker

**Integrator Settings**

Integration Start Time [s] : 20  
 Integration End Time [s] : 98.95  
 Slope Threshold : 0.8  
 Height Threshold [FU] : 20  
 Area Threshold : 0.1  
 Width Threshold [s] : 0.5  
 Baseline Plateau [s] : 0.5

**Filter Settings**

Filter Width [s] : 0.5  
 Polynomial Order : 4

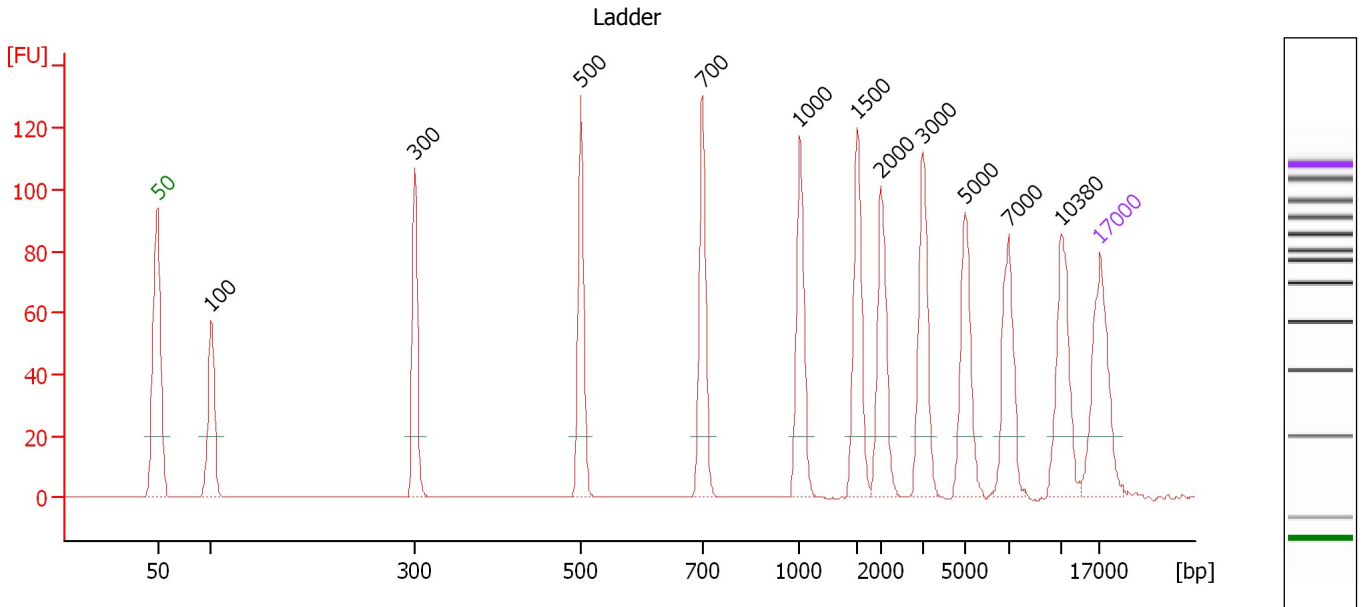
**Ladder**

Ladder Peak	Size	Area
1	50	120
2	100	48
3	300	61
4	500	77
5	700	81
6	1000	86
7	1500	92
8	2000	92
9	3000	96
10	5000	100
11	7000	98
12	10380	102
13	17000	110

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**Electropherogram Summary**



**Peak table for Ladder**

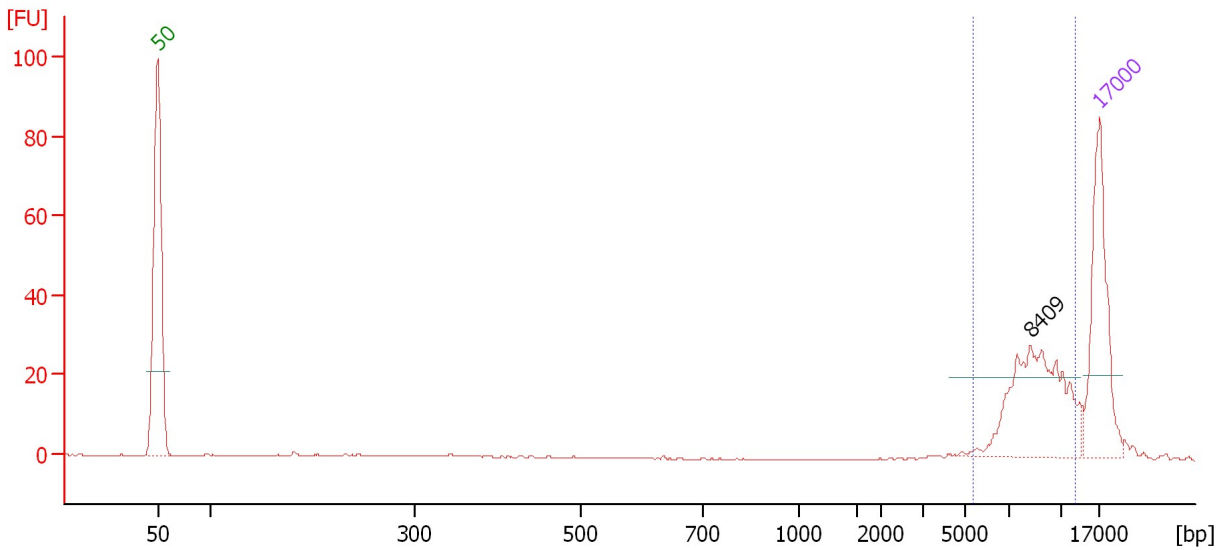
Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	100	4.00	60.6	Ladder Peak
3	300	4.00	20.2	Ladder Peak
4	500	4.00	12.1	Ladder Peak
5	700	4.00	8.7	Ladder Peak
6	1,000	4.00	6.1	Ladder Peak
7	1,500	4.00	4.0	Ladder Peak
8	2,000	4.00	3.0	Ladder Peak
9	3,000	4.00	2.0	Ladder Peak
10	5,000	4.00	1.2	Ladder Peak
11	7,000	4.00	0.9	Ladder Peak
12	10,380	4.00	0.6	Ladder Peak
13	17,000	4.20	0.4	Upper Marker

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**Electropherogram Summary Continued ...**

HiSeq\_098 gel extraction 8kb



**Overall Results for sample 7 : HiSeq\_098 gel extraction 8kb**

Number of peaks found: 1                      Area 1: 89.1

**Peak table for sample 7 : HiSeq\_098 gel extraction 8kb**

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	8,409	5.39	1.0	
3	17,000	4.20	0.4	Upper Marker

**Region table for sample 7 : HiSeq\_098 gel extraction 8kb**

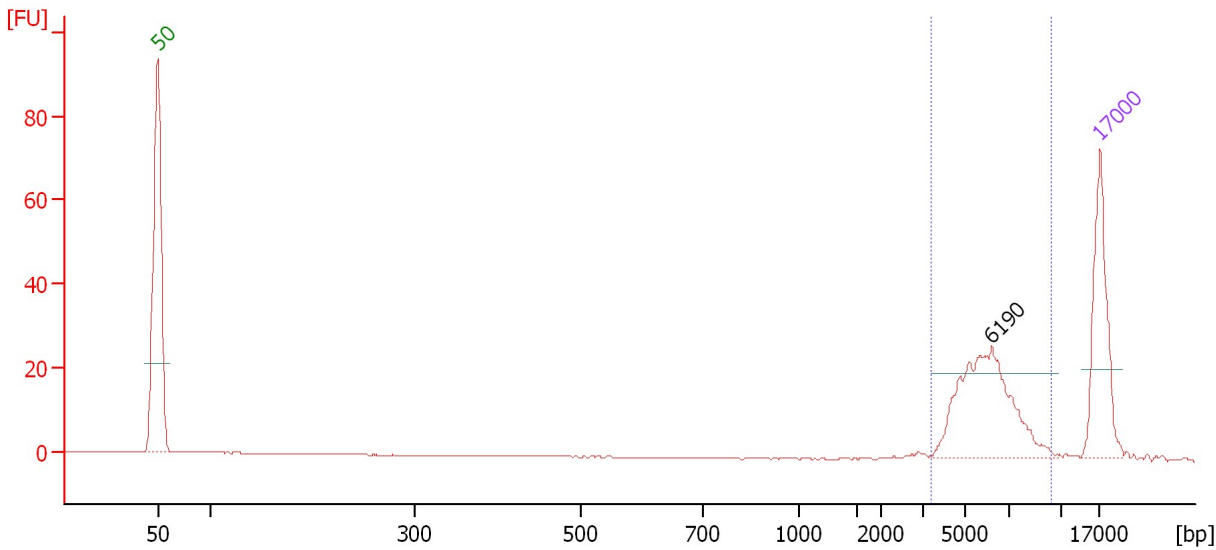
From [bp]	To [bp]	Average Size [bp]	Conc. [ng/μl]	Area	% of Total	Size distribution in CV [%]	Color
5,372	12,874	8,788	5.35	89.1	77	18.0	Blue

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**Electropherogram Summary Continued ...**

HiSeq\_098 gel extraction 6kb



**Overall Results for sample 9 : HiSeq\_098 gel extraction 6kb**

Number of peaks found: 1                      Area 1: 79.1

**Peak table for sample 9 : HiSeq\_098 gel extraction 6kb**

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	6,190	6.48	1.6	
3	17,000	4.20	0.4	Upper Marker

**Region table for sample 9 : HiSeq\_098 gel extraction 6kb**

From [bp]	To [bp]	Average Size [bp]	Conc. [ng/μl]	Area	% of Total	Size distribution in CV [%]	Color
3,442	9,694	6,041	6.56	79.1	92	20.1	Blue

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**Gel Image**