

2013-09-18\_002.xad

2100 Expert (B.02.08.SI648)

High Sensitivity DNA Assay

9/18/2013 11:29:03 AM

Created:

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Assay Class: Data Path:	High Sensitivity DNA Assay C:\ents and Settings\Bioanalyzer\20	013-09-18\2013	8-09-18_	002.xad	Created: Modified:	9/18/2013 9/18/2013	11:29 12:11	):03 1:32	AM PM
Liectiophore	sis The Run Summary (emp Sum	iniai y)							
Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result I	_abel	Res	ult	
sample 1			~				COIC		
sample 2			~						
sample 3			$\checkmark$						
sample 4			$\checkmark$						
sample 5			$\checkmark$						
sample 6			×						
sample 7			×						
sample 8			×						
sample 9			$\checkmark$						
sample 10			$\sim$						
sample 11			$\checkmark$						
Ladder			$\checkmark$						

Chip Lot #

Reagent Kit Lot #

**Chip Comments :** 

Assay Class:High Sensitivity DNA AssayData Path:C:\...ents and Settings\Bioanalyzer\2013-09-18\2013-09-18\_002.xad

# 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] : 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

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# **Electropherogram Summary**



### **Overall Results for Ladder**

Noise:

0.1

# 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

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# **Electropherogram Summary Continued ...**



#### Overall Results for sample 1 : sample 1

Peak t Peak	able	for sample 1 : Size [bp]	<u>sample 1</u> Conc. [pg/µl]	Molar	ity [pmol	/I]	Observations	
1 2	•	35 600	125.00 58.76	5,411. 148.4	3		Lower Marker	
3		10,380	75.00	10.9			Upper Marker	
Regior	ו tab	le for sample 1	sample 1					
From [bp]	Т	o [bp] Average Siz [bp]	ze Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Co lor

897.50

642.5

96

46.6

96

1,180

405

4,734.2

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# **Electropherogram Summary Continued ...**



Overal	l Res	sults for sample	2:	sample 2					
Number	of pe	eaks found:	4		Corr. Area 1:				708.4
Noise:			0.2	2					
Peak ta	able	for sample 2:		sample 2					
Peak		Size [bp]	Со	nc. [pg/µl]	Me	olarit	y [pmol/	/I]	Observations
1		35	12	5.00	5,4	ŧ11.3			Lower Marker
2		603	18	3.58	46	1.2			
3		687	7.1	.3	15	.7			
4		773	8.5	4	16	.7			
5		908	11	13	18	.6			
6		10,380	75	00	10	.9			Upper Marker
Region table for sample 2 : <u>sample 2</u>									
From [bp]	Тс	[bp] Average Si [bp]	ze	Molarity [pmol/l]	Conc. [pg/µl]	l	Corr. Area	% of Total	Size distribution in CV [%]

913.24

5,775.5

708.4

96

52.4

426

1,061

78

Со

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ted: 9/18/2013 11:29:03 AM fied: 9/18/2013 12:11:32 PM

# Electropherogram Summary Continued ...



Overa	ll Re	sults for samp	ole 3: <u>sample 3</u>		
Numbe	Number of peaks found:		1	Corr. Area 1:	536.4
Noise:			0.2		
Peak t	able	for sample 3	: <u>sample 3</u>		
Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1		35	125.00	5,411.3	Lower Marker
2		611	113.35	281.3	
3		10,380	75.00	10.9	Upper Marker

Region t	table fo	r sample 3 :	sample 3					
<b>From</b> [bp] 88	<b>To [bp</b>	] Average Size [bp] 289	Molarity [pmol/l] 5.770.8	<b>Conc.</b> [pg/µl] 838.27	<b>Corr.</b> Area 536.4	<b>% of</b> Total 75	Size distribution in CV [%] 41.4	Co lor

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# **Electropherogram Summary Continued ...**



Overal	l Res	sults for sample	4 : <u>sample 4</u>					
Number	of pe	eaks found:	1	Corr. A	Area 1:		998.0	
Noise:			0.2					
Peak ta	able	for sample 4 :	sample 4					
Peak		Size [bp]	Conc. [pg/µl]	Molar	ity [pmol,	/I]	Observations	
1		35	125.00	5,411.	3		Lower Marker	
2		608	94.20	234.6				
3		10,380	75.00	10.9			Upper Marker	
Region	ı tab	le for sample 4	: <u>sample 4</u>					
From [bp]	Тс	[bp] Average Si [bp]	ze Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Co lor

1,269.37

998.0

96

48.7

94

1,421

414

6,612.6

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# **Electropherogram Summary Continued ...**



Overall Results for sample 5 :	sample 5	
Nevel an after a la favor d		<b>O A</b>

Number	Number of peaks found:		1	1 Corr. Area 1:			1,050.9	
Noise:			0.3					
Peak t	able	for sample 5 :	sample 5					
Peak		Size [bp]	Conc. [pg/µl]	Mola	rity [pmol/	1]	Observations	
1		35	125.00	5,411	.3		Lower Marker	
2		624	103.27	250.8				
3		10,380	75.00	10.9			Upper Marker	
Regior	ı tab	le for sample 5	: <u>sample 5</u>					
From [bp]	Т	o [bp] Average S [bp]	ize Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Co lor
120	1,	501 414	7,100.2	1,431.32	1,050.9	97	47.7	

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# **Electropherogram Summary Continued ...**



Overa	ll Re	sults for samp	le 6: <u>sample 6</u>			
Numbe	Number of peaks found:		3	Corr. Area 1:	579.7	
Noise:			0.3			
Peak t	table	for sample 6	: <u>sample 6</u>			
Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	
1	-	35	125.00	5,411.3	Lower Marker	
2		239	116.19	735.9		

4 5	62 10	24 ),380	53.24 75.00	129.3 10.9			Upper Marker	
Region table for sample 6 : <u>sample 6</u>								
<b>From</b> [bp] 144	<b>To [b</b> 1,071	p] Average Size [bp] 377	e Molarity [pmol/l] 5,024.2	<b>Conc.</b> [pg/μl] 1,001.58	<b>Corr.</b> Area 579.7	<b>% of</b> Total 99	Size distribution in CV [%] 41.9	Co lor

134.9

3

260

23.15

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### **Electropherogram Summary Continued ...**



Overall Results for sample 7 :	sample 7
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80.57

Number of peaks found:			3	Corr. Area 1:	950.8
Noise:			0.3		
Peak ta	ble	for sample 7 :	sample 7		
Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	. ▲	35	125.00	5,411.3	Lower Marker
2		508	6.37	19.0	
3		563	8.06	21.7	

5	10,380		.00	10.9			Upper Marker		
Region	tab	le for sample	e7:	sample 7					
From [bp]	То	[bp] Averag [bp]	e Size	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Co Ior
110	1,3	351 415		6,667.8	1,306.02	950.8	97	48.8	

192.5

4

634

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# **Electropherogram Summary Continued ...**



Overall	Results	for	sample 8	:	sample 8
orcian	it courto		Sumple C		Sumple 0

Numbe	r of p	eaks found:	1	Corr.	Area 1:		395.6	
Noise:			0.3					
Peak t	able	for sample 8 :	sample 8					
Peak		Size [bp]	Conc. [pg/µl]	Mola	rity [pmol	/I]	Observations	
1		35	125.00	5,411	.3		Lower Marker	
2		639	49.12	116.5				
3		10,380	75.00	10.9			Upper Marker	
Regio	n tab	le for sample 8	: <u>sample 8</u>					
From	Т	o [bp] Average S	Size Molarity	Conc.	Corr.	% of	Size distribution in	Со
[bp]		[bp]	[pmol/l]	[pg/µl]	Area	Total	CV [%]	lor
133	1.	000 371	3.216.3	610.91	395.6	98	44.2	

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### **Electropherogram Summary Continued ...**



1,067.3

<b>Overall Results for sample</b>	sample 9		
Number of peaks found:	1		Corr. Area 1:
Noise:	0.3		

able	for sample 9 :	sample 9					
	Size [bp]	Conc. [pg/µl]	Molar	ity [pmol/	1]	Observations	
.∢	35	125.00	5,411.	3		Lower Marker	
	653	73.91	171.5				
	10,380	75.00	10.9			Upper Marker	
tab	le for sample 9	: <u>sample 9</u>					
Тс 1,3	<b>b [bp] Average Si</b> [ <b>bp]</b> 386 399	ze Molarity [pmol/l] 11,150.2	<b>Conc.</b> [pg/μl] 2,203.41	<b>Corr.</b> Area 1,067.3	<b>% of</b> Total 98	Size distribution in CV [%] 48.5	Co lor
	tab 1,;	ible for sample 9 :   Size [bp]   35   653   10,380   table for sample 9   To [bp] Average Sis   [bp]   1,386 399	Size [bp] Conc. [pg/µl]   35 125.00   653 73.91   10,380 75.00   table for sample 9 : sample 9   To [bp] Average Size Molarity   [bp] [pmol/l]   1,386 399 11,150.2	Ible for sample 9 : sample 9   Size [bp] Conc. [pg/µl] Molar   35 125.00 5,411.1   653 73.91 171.5   10,380 75.00 10.9   table for sample 9 : sample 9   To [bp] Average Size Molarity Conc.   [bp] [pmol/l] [pg/µl]   1,386 399 11,150.2 2,203.41	Size [bp] Conc. [pg/µl] Molarity [pmol/]   35 125.00 5,411.3   653 73.91 171.5   10,380 75.00 10.9   table for sample 9 : sample 9   To [bp] Average Size Molarity Conc. Corr.   [bp] [pmol/l] [pg/µl] Area   1,386 399 11,150.2 2,203.41 1,067.3	Size [bp] Conc. [pg/µl] Molarity [pmol/l]   35 125.00 5,411.3   653 73.91 171.5   10,380 75.00 10.9   table for sample 9 : sample 9   To [bp] Average Size [bp] Molarity [pmol/l] Conc. Corr. % of [pg/µl]   1,386 399 11,150.2 2,203.41 1,067.3 98	Size [bp] Conc. [pg/µl] Molarity [pmol/l] Observations   35 125.00 5,411.3 Lower Marker   653 73.91 171.5 10,380 75.00 10.9 Upper Marker   table for sample 9 : sample 9   To [bp] Average Size [bp] Molarity [pmol/l] Conc. Corr. % of [pg/µl] Size distribution in CV [%]   1,386 399 11,150.2 2,203.41 1,067.3 98 48.5

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# **Electropherogram Summary Continued ...**



#### **Overall Results for sample 10 :** sample 10

[bp]

485

1,393

[bp]

87

Number Noise:	r of pe	eaks found:	1 0.3	Corr. Area 1:	287.9
Peak t	able	for sample 10	: <u>sample 10</u>	Marka - 1997	0 harring times
Реак		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1		35	125.00	5,411.3	Lower Marker
2		663	144.09	329.4	
3		10,380	75.00	10.9	Upper Marker
Regior	ı tab	le for sample 1	LO : <u>sample 10</u>		
From	Т	o [bp] Average	Size Molarity Co	onc. Corr. % of	Size distribution in Co

[pg/µl]

731.57

[pmol/l]

4,532.3

Total

94

Area

287.9

CV [%]

58.2

lor

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# **Electropherogram Summary Continued ...**



<b>Overall Results for sam</b>	nple 11:	sample 11		
Number of peaks found:	4		Corr. Area 1:	

19.29

62.55

75.00

Noise:			0.2		
Peak ta	able	for sample 1	1 : <u>sample 11</u>		
Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1		35	125.00	5,411.3	Lower Marker
2		316	44.28	212.4	
3		339	16.89	75.4	

Upper Marker

802.8

Region table for sample 11 :			<u>sample</u>	<u>11</u>				
From [bp]	To [bp]	] Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Co lor
102	1,723	421	8,844.8	1,829.16	802.8	98	52.0	

74.0

138.1

10.9

4

5

6

395

686

10,380

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Assay Class: Data Path: <b>Gel Image</b>	High Sensitivity DNA Assay C:\ents and Settings\Bioanalyzer\2013-09-18\2013-09-18_002.xad								C M	reated: 9 odified: 9	9/18/2013 11:29:03 AM 9/18/2013 12:11:32 PM	
[bp]	Ladder	sample 1	sample 2	sample 3	sample 4	sample 5	sample 6	sample 7	sample 8	sample 9	sample 10	sample 11
		_	_	_	_			_	_			_
10380 — 7000 — <b>—</b>												
3000 — <b>—</b> 2000 — <b>—</b>	_											
1000 — 🕳								_				
700 — 🗕					_	_		_		_	_	_
500 — 🗕												
400 — 🗕												
300 — 🗕	_											
200 — 🗕												
150 — 🗕												
100 — —												
50 — — 35 — —		_			_	_						
	L	1	2	З	4	5	6	7	8	9	10	11