

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-01\2018-06-01\_001.xad

Created: 6/1/2018 10:27:27 AM  
Modified: 6/1/2018 11:08:44 AM

**Electrophoresis File Run Summary**

Instrument Information:

Instrument Name: DE34903152      Firmware: C.01.069  
Serial#: DE34903152      Type: G2938C

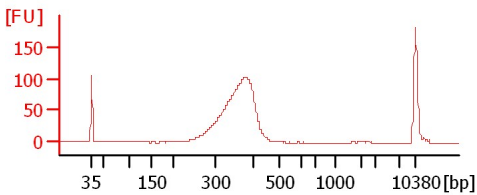
Assay Information:

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

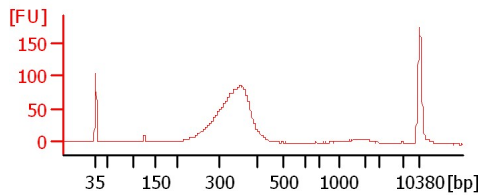
Chip Information:

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

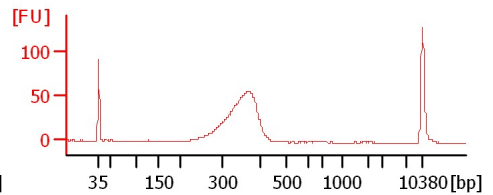
**EpiChIP #17 LIB1**



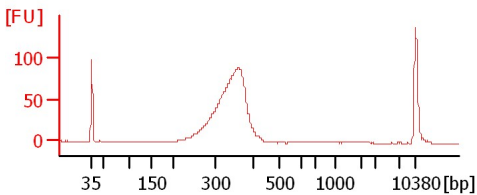
**EpiChIP #17 LIB2**



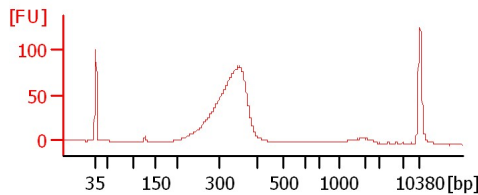
**EpiChIP #17 LIB3**



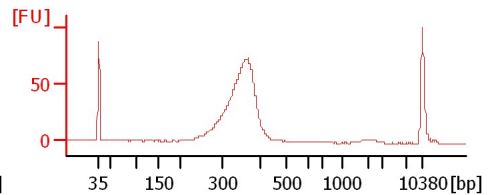
**EpiChIP #17 LIB4**



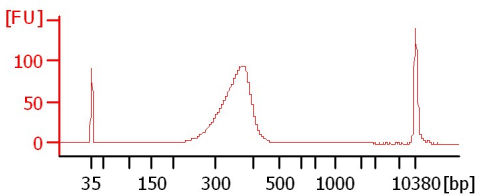
**EpiChIP #17 LIB5**



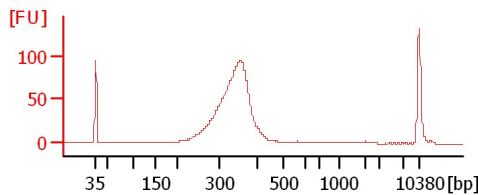
**EpiChIP #17 LIB6**



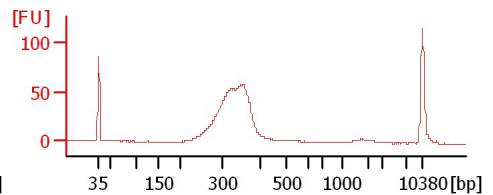
**EpiChIP #17 LIB7**



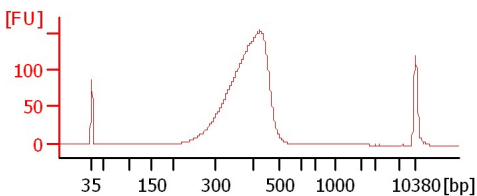
**EpiChIP #17 LIB8**



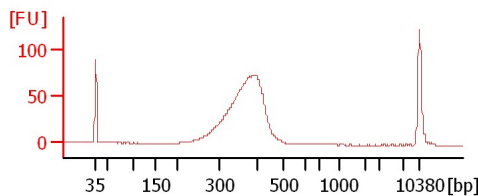
**EpiChIP #17 LIB9**



**EpiChIP #17 LIB10**



**EpiChIP #17 LIB11**



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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
EpiChIP #17 LIB1		<input type="checkbox"/>	✓			
EpiChIP #17 LIB2		<input type="checkbox"/>	✓			
EpiChIP #17 LIB3		<input type="checkbox"/>	✓			
EpiChIP #17 LIB4		<input type="checkbox"/>	✓			
EpiChIP #17 LIB5		<input type="checkbox"/>	✓			
EpiChIP #17 LIB6		<input type="checkbox"/>	✓			
EpiChIP #17 LIB7		<input type="checkbox"/>	✓			
EpiChIP #17 LIB8		<input type="checkbox"/>	✓			
EpiChIP #17 LIB9		<input type="checkbox"/>	✓			
EpiChIP #17 LIB10		<input type="checkbox"/>	✓			
EpiChIP #17 LIB11		<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/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

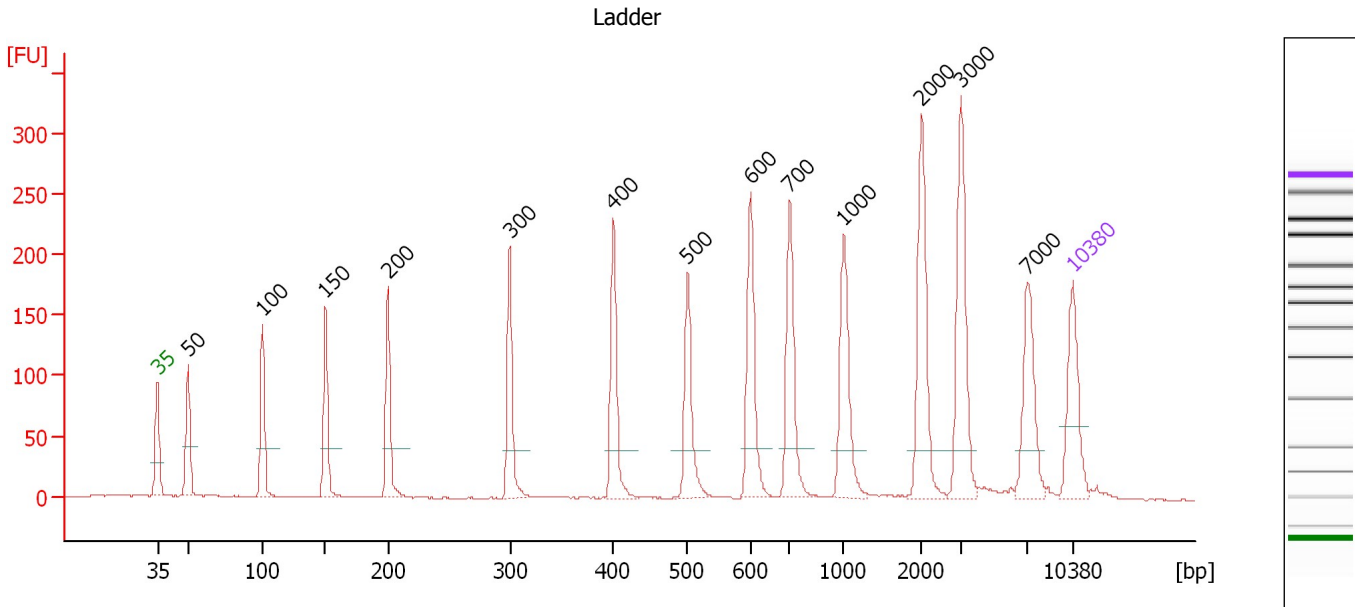
**Ladder**

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: 0.3

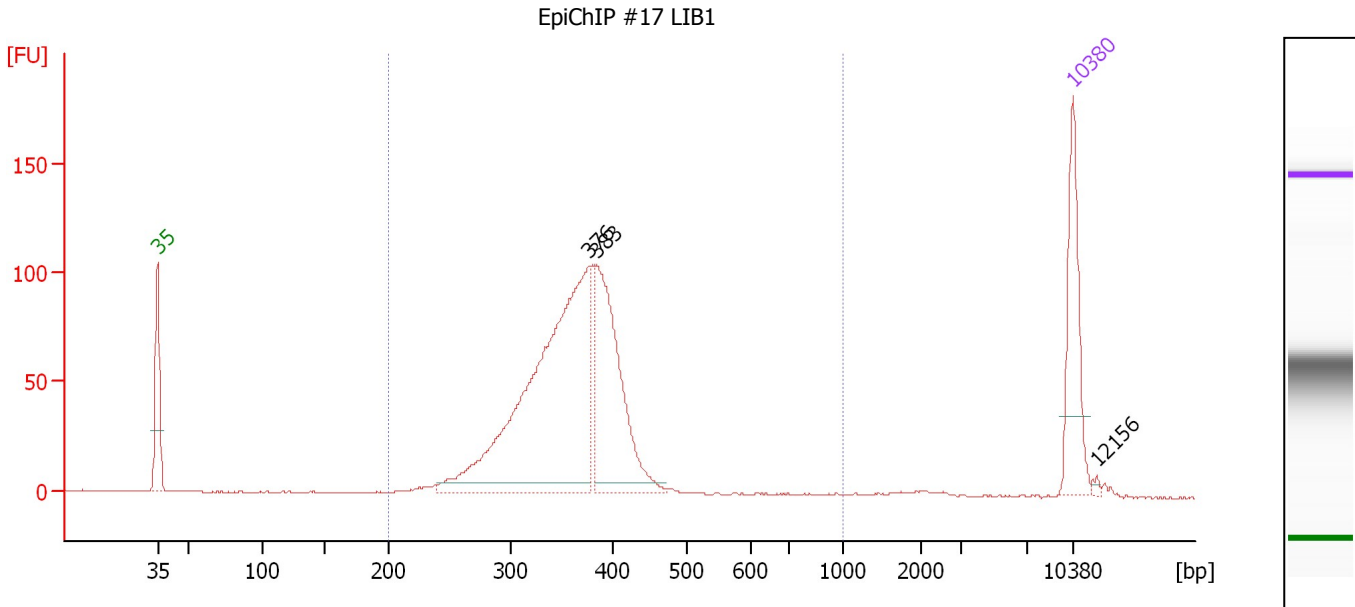
**Peak table for Ladder**

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	45.33
3	100	150.00	2,272.7	Ladder Peak	51.04
4	150	150.00	1,515.2	Ladder Peak	55.84
5	200	150.00	1,136.4	Ladder Peak	60.60
6	300	150.00	757.6	Ladder Peak	69.94
7	400	150.00	568.2	Ladder Peak	77.89
8	500	150.00	454.5	Ladder Peak	83.55
9	600	150.00	378.8	Ladder Peak	88.35
10	700	150.00	324.7	Ladder Peak	91.36
11	1,000	150.00	227.3	Ladder Peak	95.49
12	2,000	150.00	113.6	Ladder Peak	101.42
13	3,000	150.00	75.8	Ladder Peak	104.42
14	7,000	150.00	32.5	Ladder Peak	109.54
15	10,380	75.00	10.9	Upper Marker	113.00

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**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : EpiChIP #17 LIB1**

Number of peaks found: 3                      Corr. Area 1: 1,152.7  
 Noise: 0.4

**Peak table for sample 1 : EpiChIP #17 LIB1**

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	376	488.61	1,969.1		75.98
3	383	215.09	851.3		76.52
4	10,380	75.00	10.9	Upper Marker	113.00
5	12,156	0.00	0.0		114.82

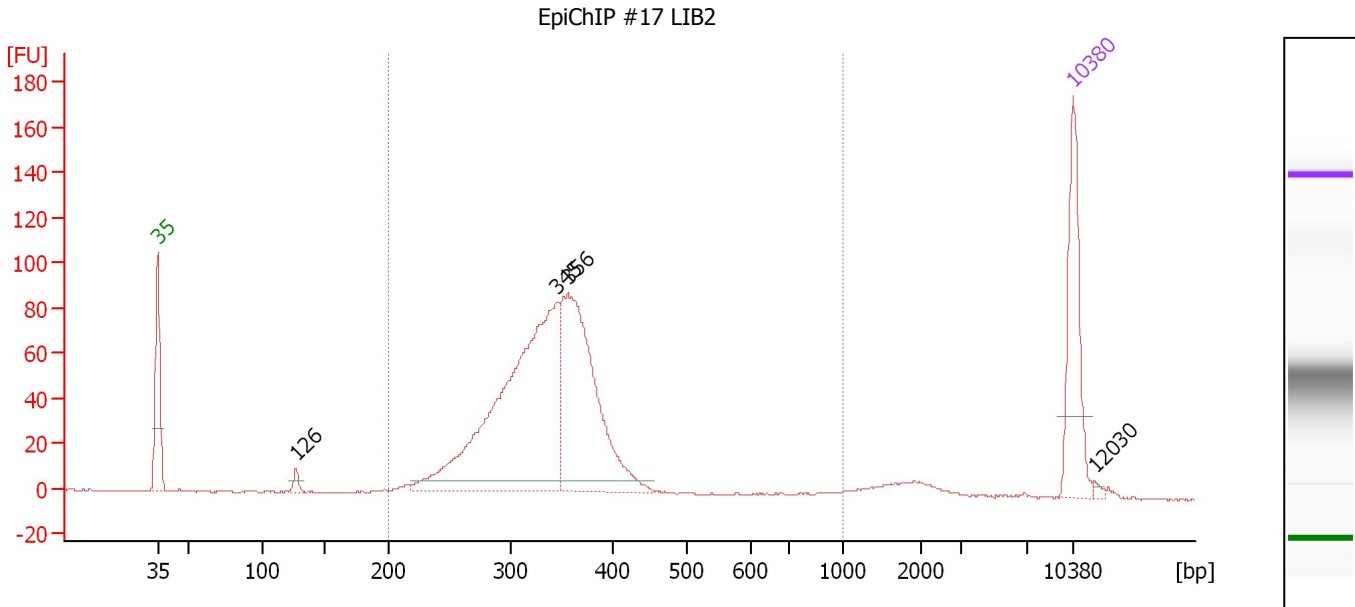
**Region table for sample 1 : EpiChIP #17 LIB1**

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	361	810.74	1,152.7	3,501.6	96	17.2

Assay Class: High Sensitivity DNA Assay  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : EpiChIP #17 LIB2**

Number of peaks found: 4                      Corr. Area 1: 1,052.2  
 Noise: 0.4

**Peak table for sample 2 : EpiChIP #17 LIB2**

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	126	8.74	104.7		53.58
3	345	418.82	1,836.9		73.55
4	356	267.93	1,141.0		74.37
5	10,380	75.00	10.9	Upper Marker	113.00
6	12,030	0.00	0.0		114.69

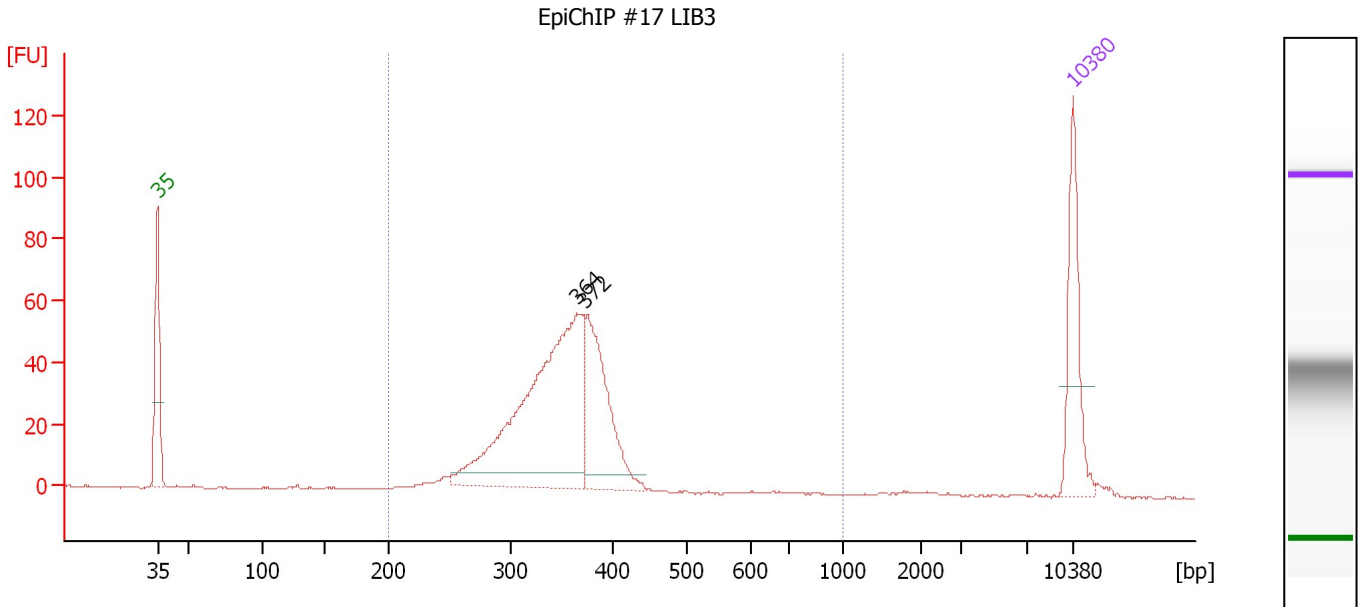
**Region table for sample 2 : EpiChIP #17 LIB2**

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	340	757.25	1,052.2	3,503.6	93	20.5

Assay Class: High Sensitivity DNA Assay  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : EpiChIP #17 LIB3**

Number of peaks found: 2                      Corr. Area 1: 610.3  
 Noise: 0.2

**Peak table for sample 3 : EpiChIP #17 LIB3**

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	364	395.45	1,645.7		75.03
3	372	163.29	664.6		75.68
4	10,380	75.00	10.9	Upper Marker	113.00

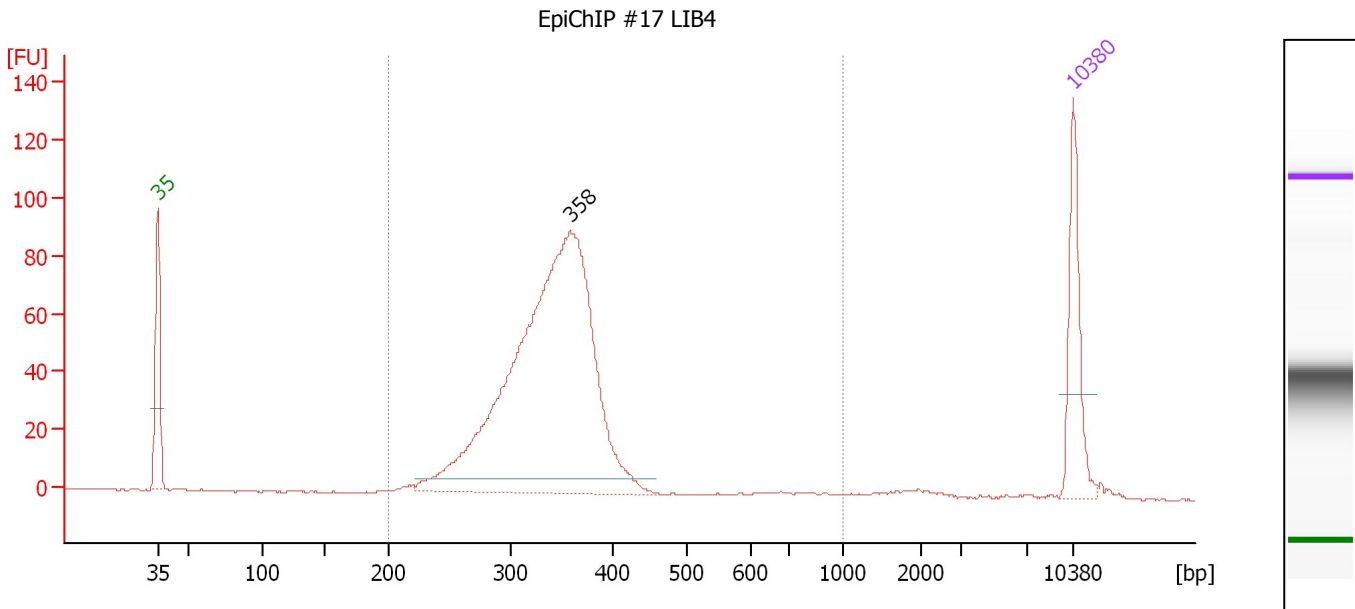
**Region table for sample 3 : EpiChIP #17 LIB3**

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	349	642.43	610.3	2,864.8	96	15.9

Assay Class: High Sensitivity DNA Assay  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : EpiChIP #17 LIB4**

Number of peaks found: 1                      Corr. Area 1: 919.6  
 Noise: 0.3

**Peak table for sample 4 : EpiChIP #17 LIB4**

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	358	842.13	3,563.9		74.55
3	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 4 : EpiChIP #17 LIB4**

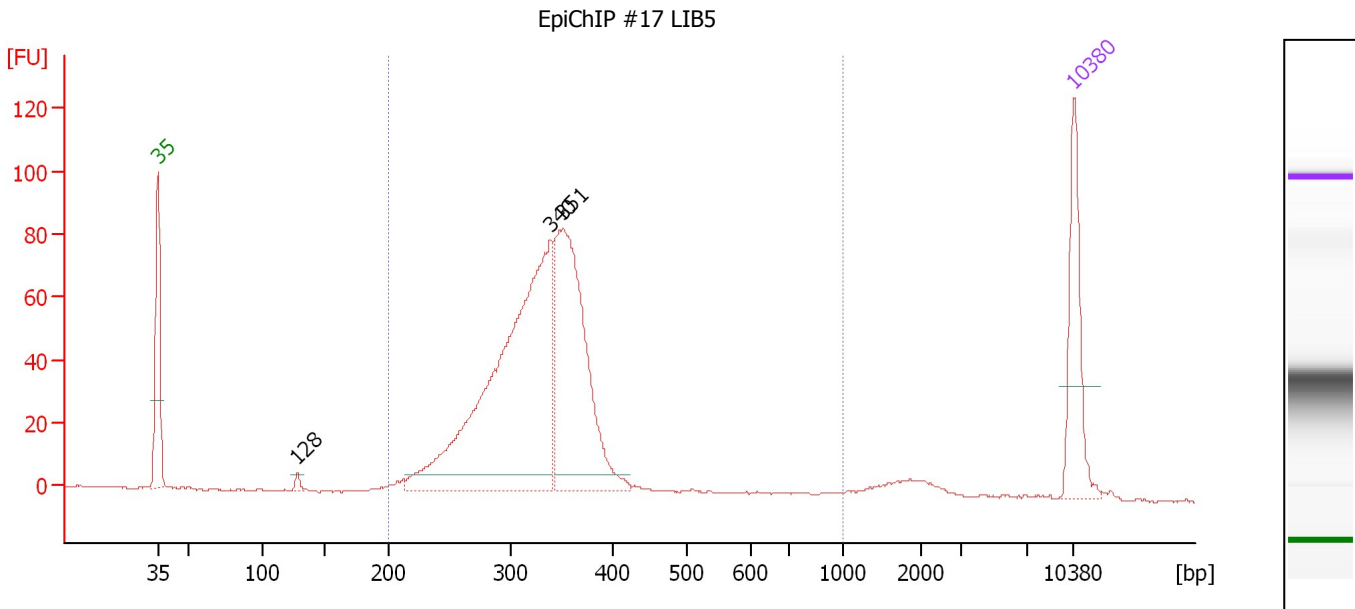
From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	342	914.41	919.6	4,179.2	97	18.5



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-01\2018-06-01\_001.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : EpiChIP #17 LIB5**

Number of peaks found: 3                      Corr. Area 1: 925.3  
 Noise: 0.3

**Peak table for sample 5 : EpiChIP #17 LIB5**

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	128	6.95	82.4		53.70
3	340	541.72	2,417.3		73.08
4	351	320.70	1,384.1		74.00
5	10,380	75.00	10.9	Upper Marker	113.00

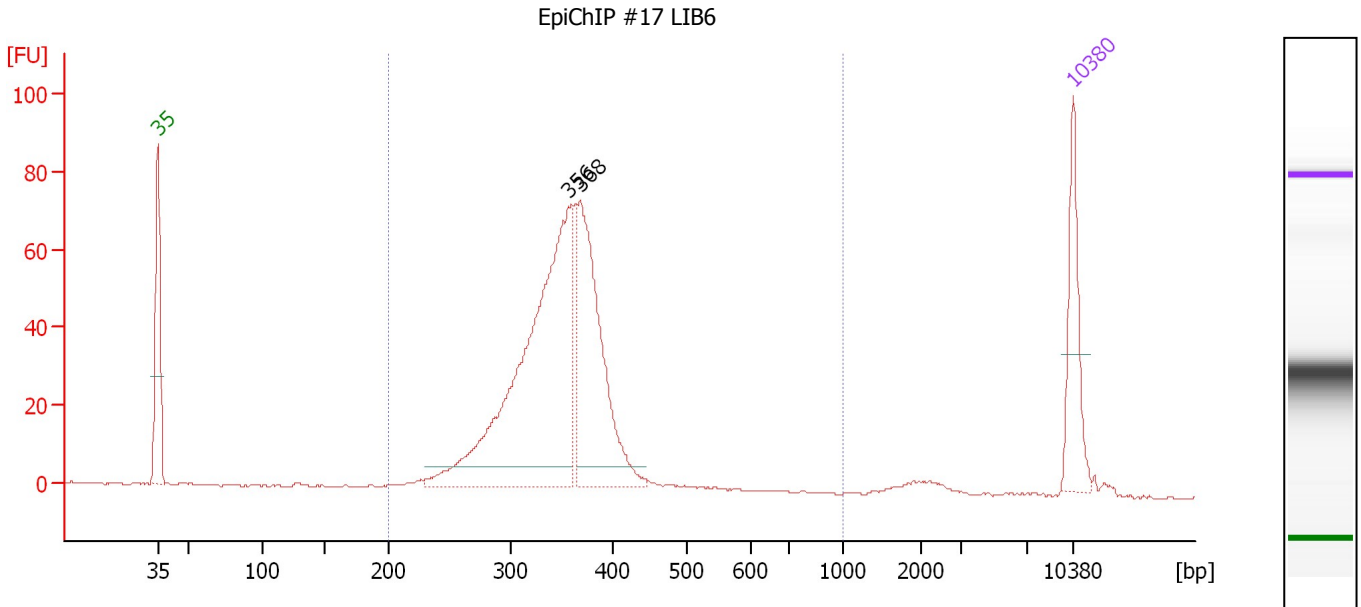
**Region table for sample 5 : EpiChIP #17 LIB5**

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	331	962.64	925.3	4,560.2	95	19.4

Assay Class: High Sensitivity DNA Assay  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : EpiChIP #17 LIB6**

Number of peaks found: 2                      Corr. Area 1: 700.1  
 Noise: 0.2

**Peak table for sample 6 : EpiChIP #17 LIB6**

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	356	557.68	2,373.6		74.39
3	368	293.48	1,209.2		75.32
4	10,380	75.00	10.9	Upper Marker	113.00

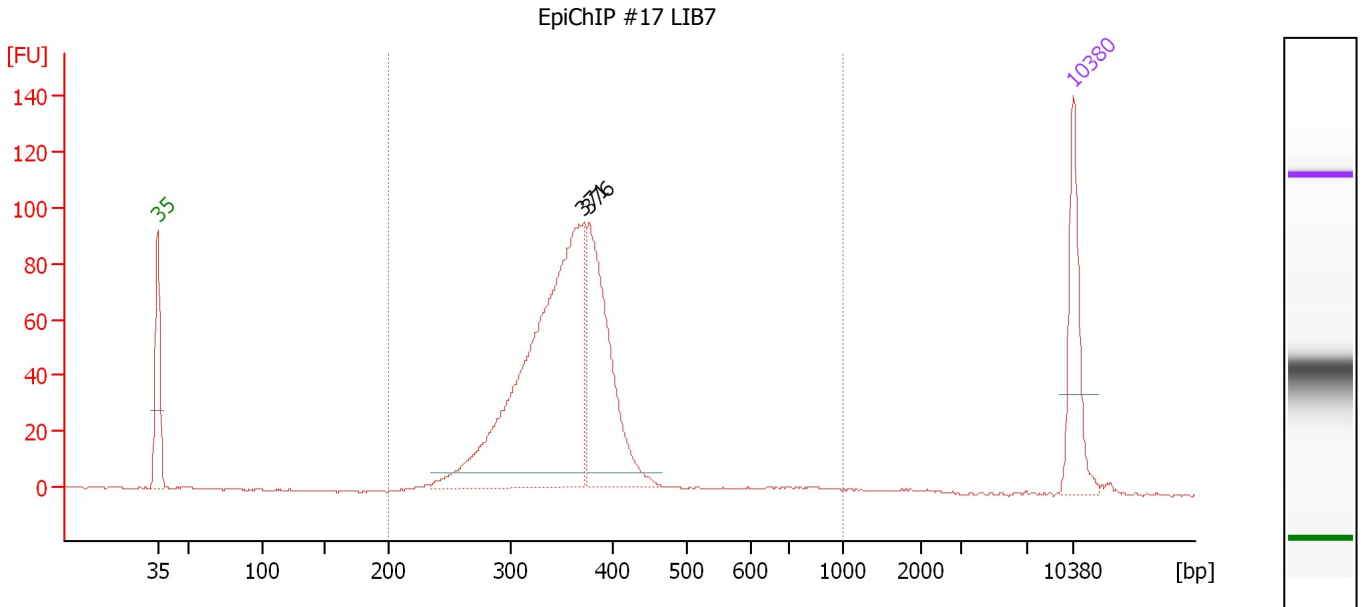
**Region table for sample 6 : EpiChIP #17 LIB6**

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	347	983.64	700.1	4,386.6	96	13.3

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**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : EpiChIP #17 LIB7**

Number of peaks found: 2                      Corr. Area 1: 996.0  
 Noise: 0.3

**Peak table for sample 7 : EpiChIP #17 LIB7**

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	371	570.54	2,331.9		75.56
3	376	237.10	956.1		75.96
4	10,380	75.00	10.9	Upper Marker	113.00

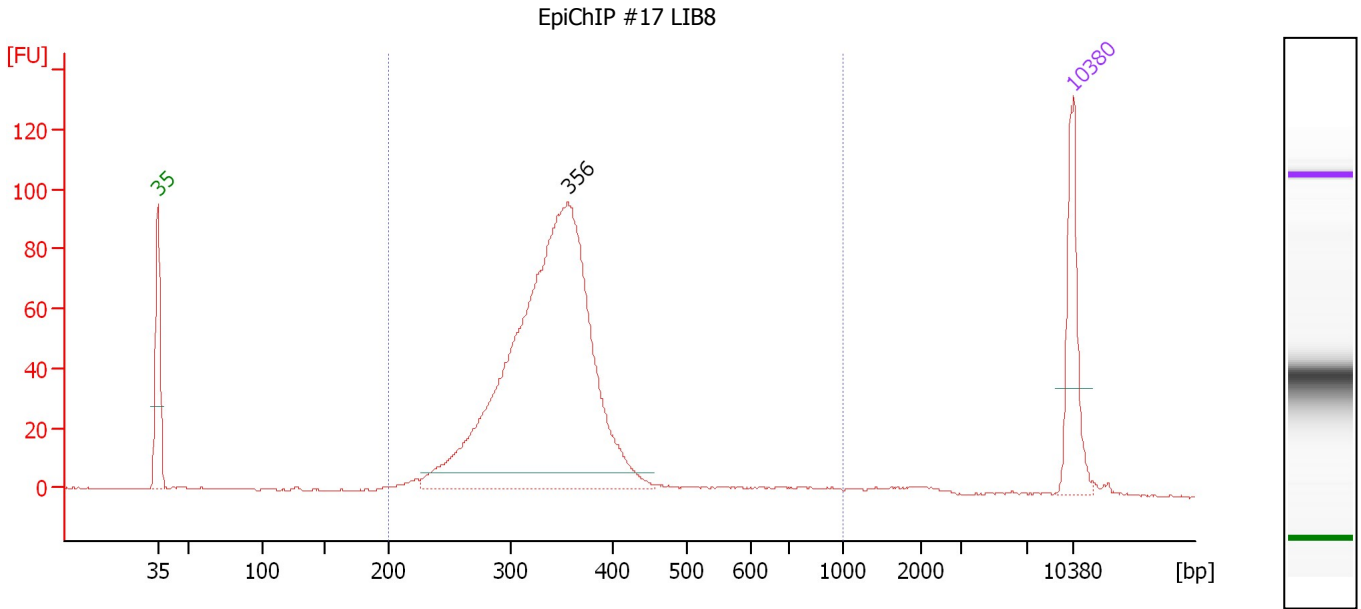
**Region table for sample 7 : EpiChIP #17 LIB7**

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	363	936.69	996.0	4,066.8	95	22.2

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**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : EpiChIP #17 LIB8**

Number of peaks found: 1                      Corr. Area 1: 1,009.2  
 Noise: 0.3

**Peak table for sample 8 : EpiChIP #17 LIB8**

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	356	890.82	3,791.5		74.39
3	10,380	75.00	10.9	Upper Marker	113.00

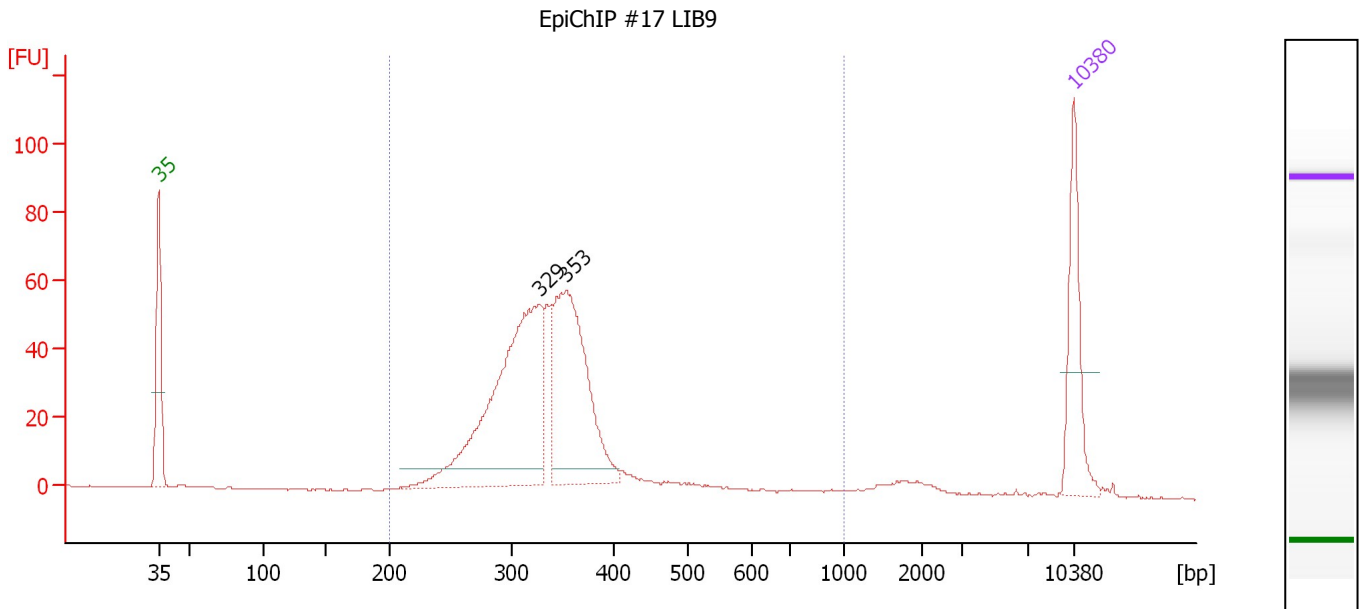
**Region table for sample 8 : EpiChIP #17 LIB8**

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	349	1,016.27	1,009.2	4,625.4	95	23.5

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**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : EpiChIP #17 LIB9**

Number of peaks found: 2                      Corr. Area 1: 697.4  
 Noise: 0.2

**Peak table for sample 9 : EpiChIP #17 LIB9**

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	329	382.20	1,762.3		72.21
3	353	268.11	1,151.6		74.13
4	10,380	75.00	10.9	Upper Marker	113.00

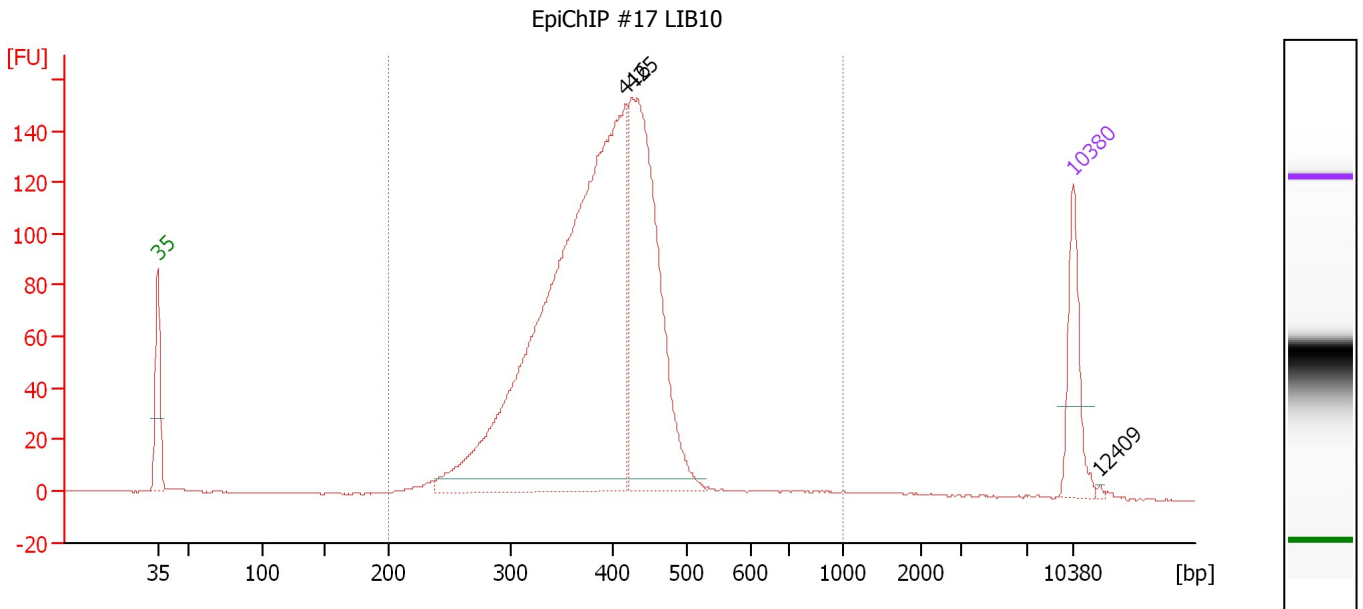
**Region table for sample 9 : EpiChIP #17 LIB9**

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	343	823.85	697.4	3,804.1	94	23.4

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**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : EpiChIP #17 LIB10**

Number of peaks found: 3                      Corr. Area 1: 1,939.5  
 Noise: 0.2

**Peak table for sample 10 : EpiChIP #17 LIB10**

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	416	1,206.65	4,396.4		78.78
3	425	503.38	1,795.4		79.29
4	10,380	75.00	10.9	Upper Marker	113.00
5	12,409	0.00	0.0		115.08

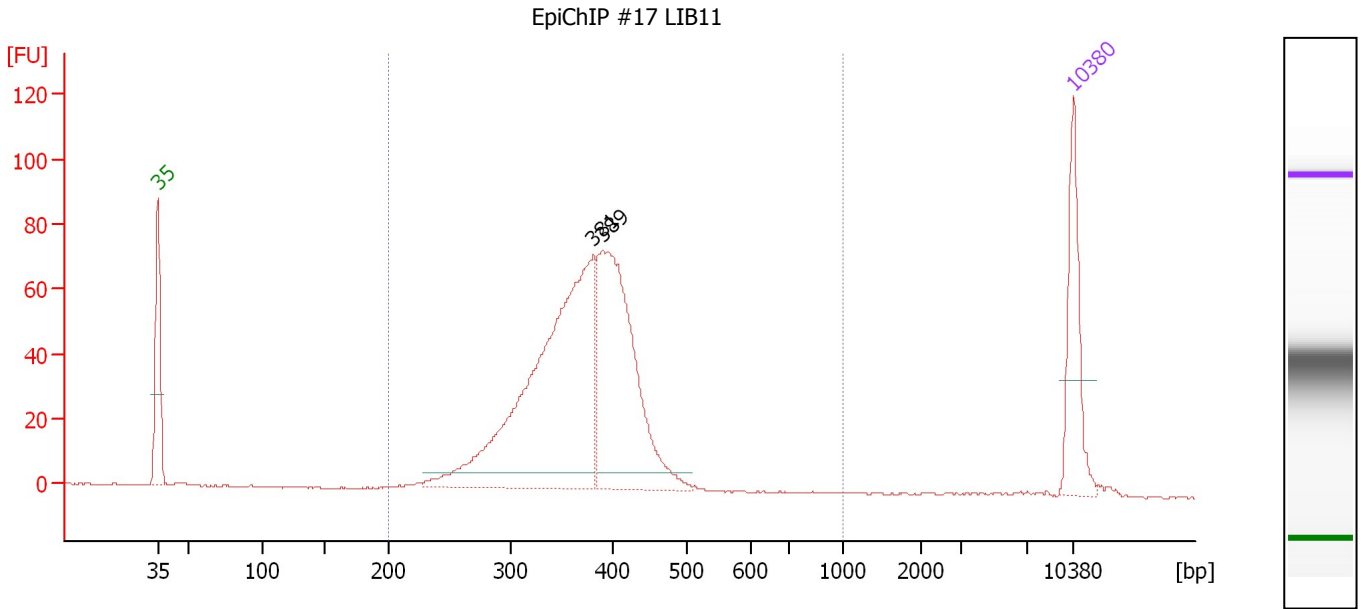
**Region table for sample 10 : EpiChIP #17 LIB10**

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	390	1,936.24	1,939.5	7,830.4	98	18.0

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**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : EpiChIP #17 LIB11**

Number of peaks found: 2                      Corr. Area 1: 853.0  
 Noise: 0.2

**Peak table for sample 11 : EpiChIP #17 LIB11**

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	381	500.20	1,991.3		76.35
3	389	316.37	1,232.5		77.01
4	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 11 : EpiChIP #17 LIB11**

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	367	898.06	853.0	3,797.9	99	13.8

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**Gel Image**