

Assay Class: High Sensitivity DNA Assay  
Data Path: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2019-11-26\_001.xad

Created: 11/26/2019 11:08:07 AM  
Modified: 11/26/2019 11:44:27 AM

**Electrophoresis File Run Summary**

Instrument Information:

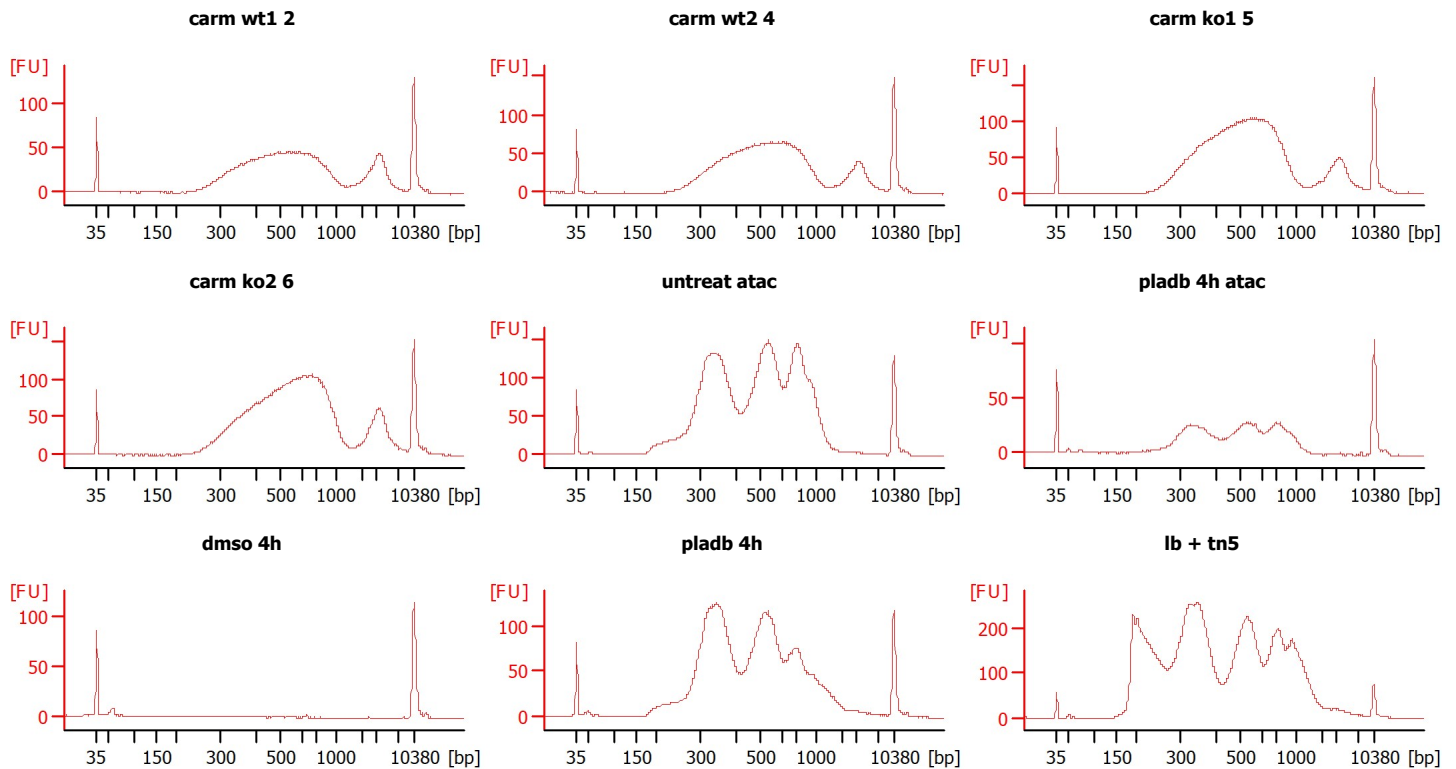
Instrument Name: DE34903152      Firmware: C.01.069  
Serial#: DE34903152      Type: G2938C

Assay Information:

Assay Origin Path: C:\Program Files (x86)\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:



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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
carm wt1 2		<input type="checkbox"/>	✓			
carm wt2 4		<input type="checkbox"/>	✓			
carm ko1 5		<input type="checkbox"/>	✓			
carm ko2 6		<input type="checkbox"/>	✓			
untreat atac		<input type="checkbox"/>	✓			
pladb 4h atac		<input type="checkbox"/>	✓			
dms0 4h		<input type="checkbox"/>	✓			
pladb 4h		<input type="checkbox"/>	✓			
lb + tn5		<input type="checkbox"/>	✓			
sample 10		<input type="checkbox"/>				
sample 11		<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

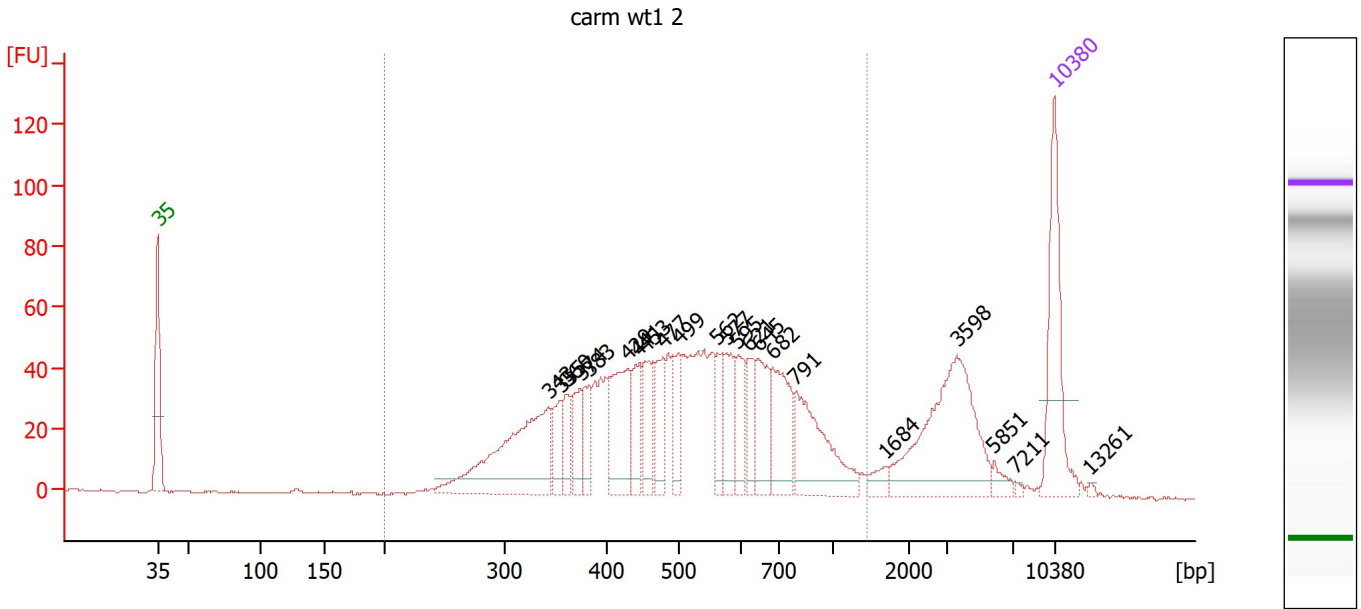
**Ladder**

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 sample 1 : carm wt1 2**

Number of peaks found: 22                      Corr. Area 1: 1,279.5  
 Noise: 0.3

**Peak table for sample 1 : carm wt1 2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	343	171.29	755.6	
3	355	30.24	129.2	
4	360	26.66	112.1	
5	374	32.87	133.1	
6	383	31.78	125.8	
7	429	82.83	292.5	
8	441	37.73	129.7	
9	453	38.52	128.9	
10	477	36.28	115.1	
11	499	34.60	105.1	
12	562	27.47	74.0	
13	577	39.21	103.0	
14	595	33.41	85.1	
15	621	29.12	71.1	
16	645	47.03	110.5	
17	682	64.38	143.1	
18	791	86.38	165.5	
19	1,684	10.13	9.1	
20	3,598	131.02	55.2	
21	5,851	8.38	2.2	
22	7,211	1.86	0.4	
23	10,380	75.00	10.9	Upper Marker
24	13,261	0.00	0.0	

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**Electropherogram Summary Continued ...**

... Region table for sample 1 :

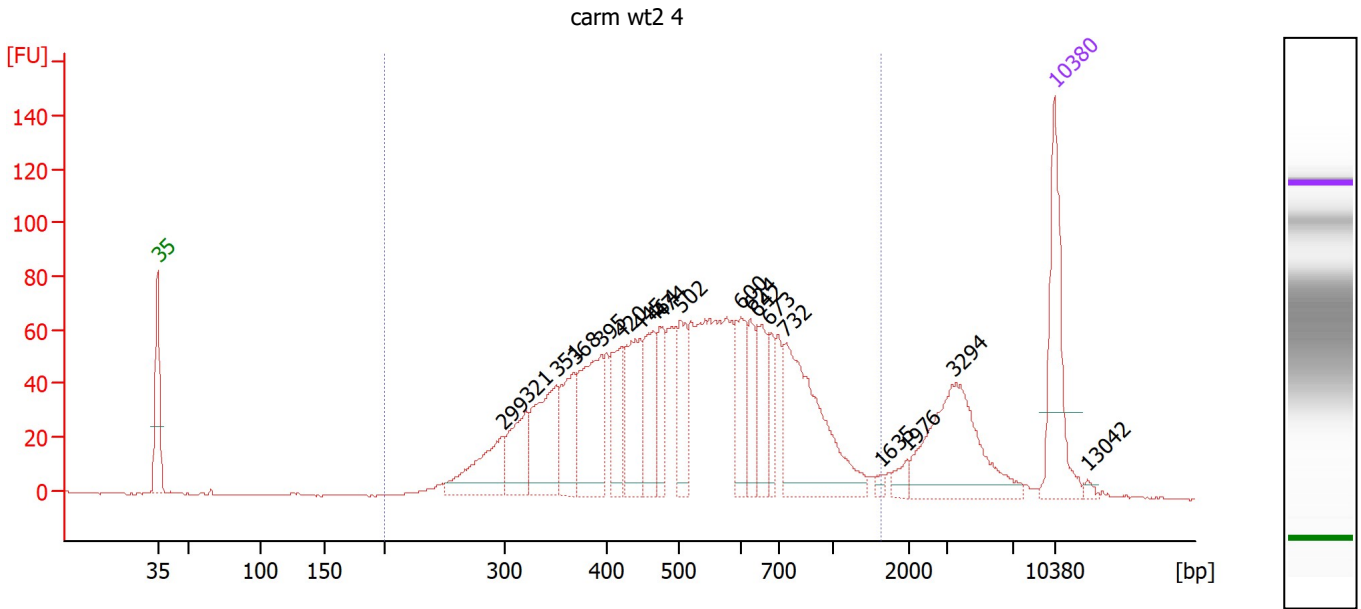
carm wt1 2

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,446	1,279.5	83	533	36.0	1,114.99	3,694.9	■

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**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : carm wt2 4**

Number of peaks found: 19                      Corr. Area 1: 1,775.1  
 Noise: 0.3

**Peak table for sample 2 : carm wt2 4**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	299	72.37	366.9	
3	321	57.63	271.6	
4	351	93.06	401.5	
5	368	59.95	246.7	
6	395	103.06	395.3	
7	420	56.77	204.7	
8	445	79.09	269.3	
9	464	58.39	190.6	
10	474	40.62	129.8	
11	502	54.73	165.0	
12	600	55.63	140.4	
13	624	35.53	86.3	
14	642	44.11	104.1	
15	673	29.10	65.5	
16	732	155.51	322.0	
17	1,635	3.89	3.6	
18	1,976	8.69	6.7	
19	3,294	108.54	49.9	
20	10,380	75.00	10.9	Upper Marker
21	13,042	0.00	0.0	

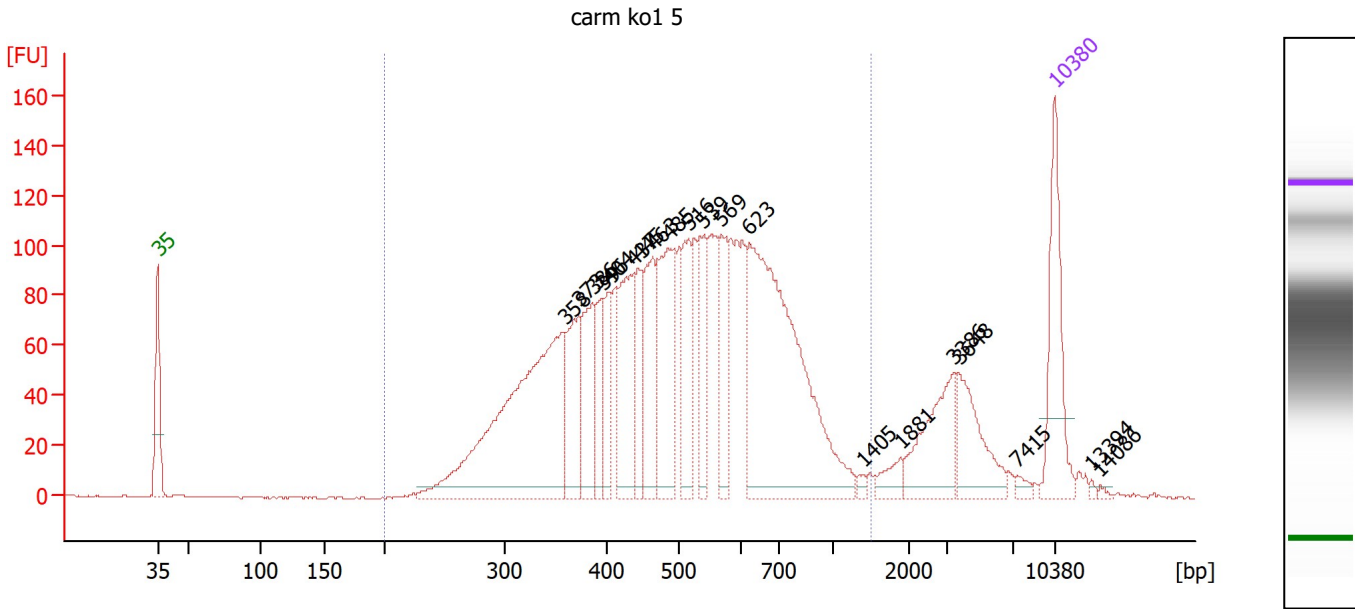
**Region table for sample 2 : carm wt2 4**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,628	1,775.1	88	543	37.7	1,308.28	4,286.4	Blue

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**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : carm ko1 5**

Number of peaks found: 20      Corr. Area 1: 2,671.2  
 Noise: 0.4

**Peak table for sample 3 : carm ko1 5**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	358	369.97	1,564.7	
3	373	83.21	338.4	
4	386	76.97	302.4	
5	396	49.86	190.8	
6	404	47.31	177.3	
7	437	102.45	355.1	
8	445	58.93	200.8	
9	463	83.76	273.9	
10	485	127.24	397.3	
11	516	70.16	205.9	
12	539	65.14	183.2	
13	569	62.14	165.5	
14	623	358.79	873.0	
15	1,405	4.24	4.6	
16	1,881	14.67	11.8	
17	3,386	67.68	30.3	
18	3,648	58.31	24.2	
19	7,415	5.06	1.0	
20	10,380	75.00	10.9	Upper Marker
21	13,394	0.00	0.0	
22	14,086	0.00	0.0	

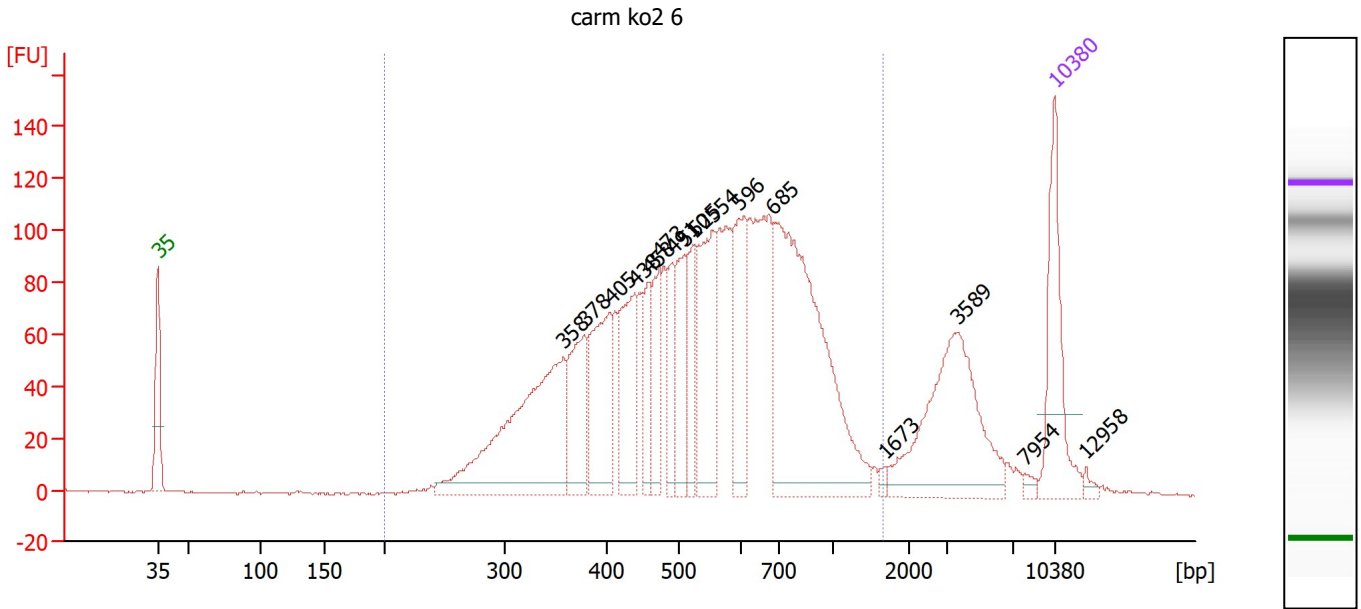
**Region table for sample 3 : carm ko1 5**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,491	2,671.2	89	519	33.7	1,887.24	6,328.9	Blue

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**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : carm ko2 6**

Number of peaks found: 16                      Corr. Area 1: 2,585.3  
 Noise: 0.4

**Peak table for sample 4 : carm ko2 6**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	358	258.39	1,094.7	
3	378	88.38	353.9	
4	405	107.52	402.4	
5	438	96.31	332.8	
6	458	43.07	142.4	
7	473	55.07	176.4	
8	491	46.26	142.7	
9	510	68.29	203.0	
10	525	47.44	137.0	
11	554	112.57	308.0	
12	596	84.22	214.1	
13	685	334.85	740.5	
14	1,673	4.10	3.7	
15	3,589	149.67	63.2	
16	7,954	4.48	0.9	
17	10,380	75.00	10.9	Upper Marker
18	12,958	0.00	0.0	

**Region table for sample 4 : carm ko2 6**

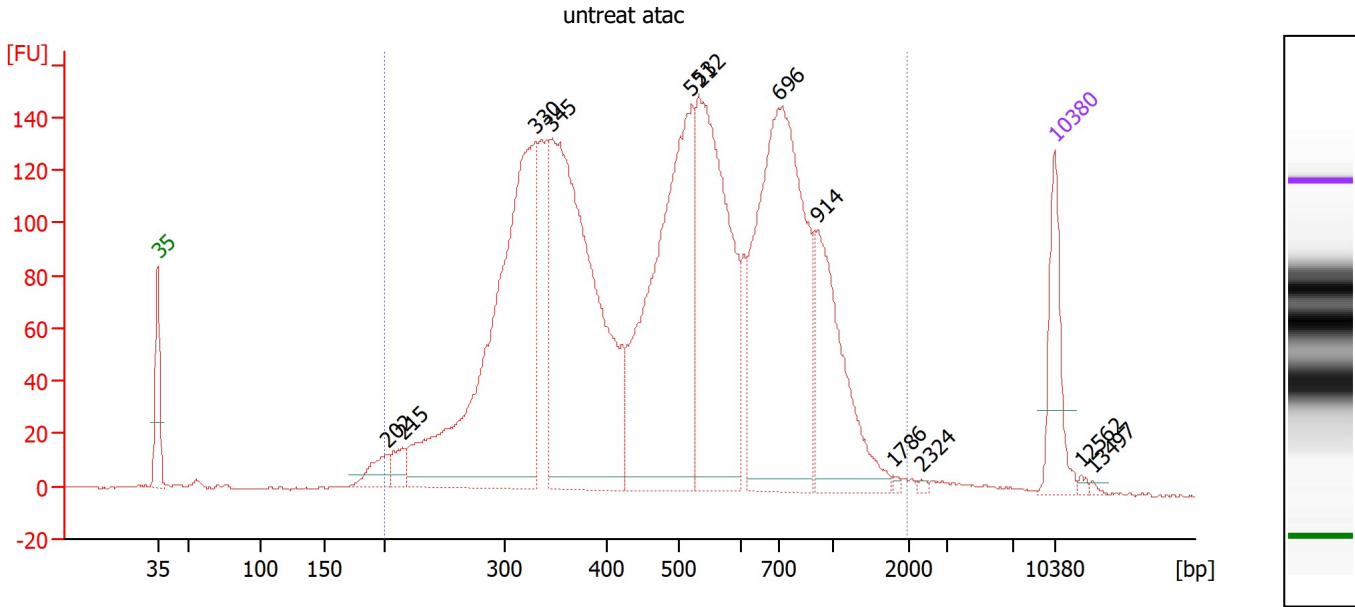
From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,662	2,585.3	88	574	37.7	1,701.91	5,312.7	Blue



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**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : untreat atac**

Number of peaks found: 12                      Corr. Area 1: 3,974.7  
 Noise: 0.4

**Peak table for sample 5 : untreat atac**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	202	40.59	303.9	
3	215	30.82	217.0	
4	330	725.14	3,325.1	
5	345	701.76	3,077.7	
6	521	541.06	1,573.5	
7	532	435.94	1,240.8	
8	696	570.86	1,242.1	
9	914	212.44	352.2	
10	1,786	2.80	2.4	
11	2,324	2.32	1.5	
12	10,380	75.00	10.9	Upper Marker
13	12,562	0.00	0.0	
14	13,497	0.00	0.0	

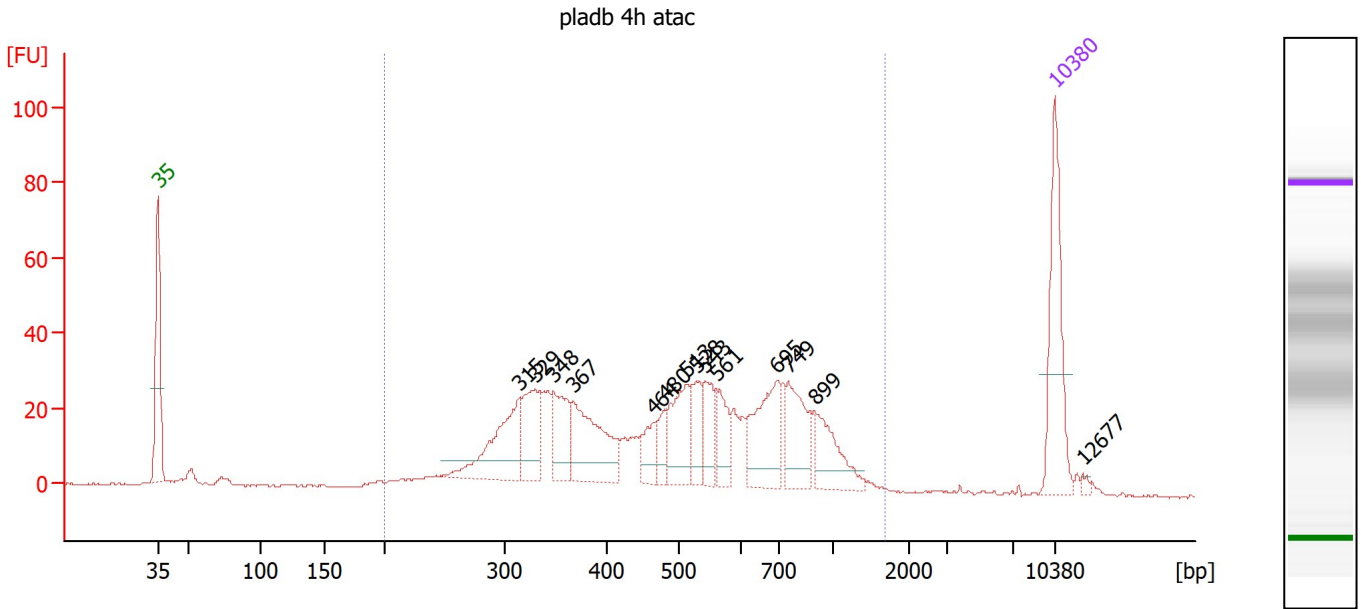
**Region table for sample 5 : untreat atac**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,957	3,974.7	97	539	45.4	3,474.26	12,326.1	Blue

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**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : pladb 4h atac**

Number of peaks found: 14                      Corr. Area 1: 801.0  
 Noise: 0.2

**Peak table for sample 6 : pladb 4h atac**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	315	94.20	453.1	
3	329	60.62	279.1	
4	348	51.77	225.5	
5	367	95.94	395.9	
6	464	25.69	83.9	
7	480	19.89	62.7	
8	513	59.30	175.1	
9	528	33.30	95.6	
10	543	32.22	89.9	
11	561	33.13	89.5	
12	695	75.97	165.6	
13	749	55.80	112.8	
14	899	47.85	80.7	
15	10,380	75.00	10.9	Upper Marker
16	12,677	0.00	0.0	

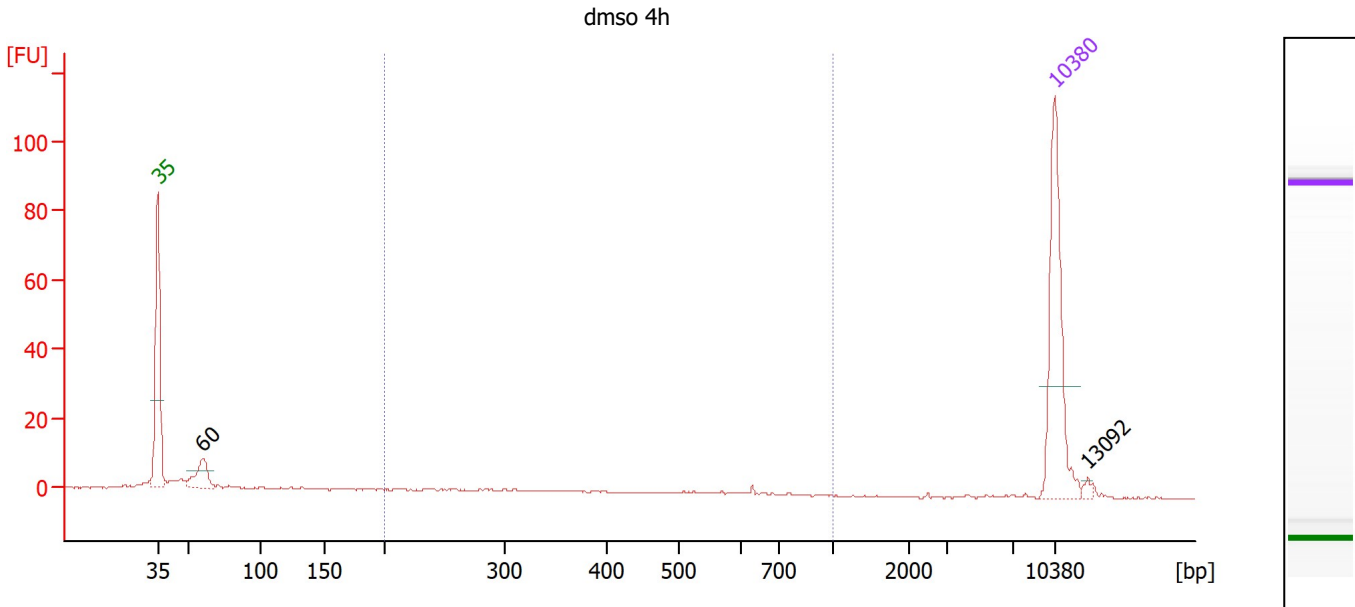
**Region table for sample 6 : pladb 4h atac**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,675	801.0	94	535	42.4	925.63	3,245.7	Blue

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**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : dms0 4h**

Number of peaks found: 2                      Corr. Area 1: 12.5  
 Noise: 0.2

**Peak table for sample 7 : dms0 4h**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	60	27.97	704.1	
3	10,380	75.00	10.9	Upper Marker
4	13,092	0.00	0.0	

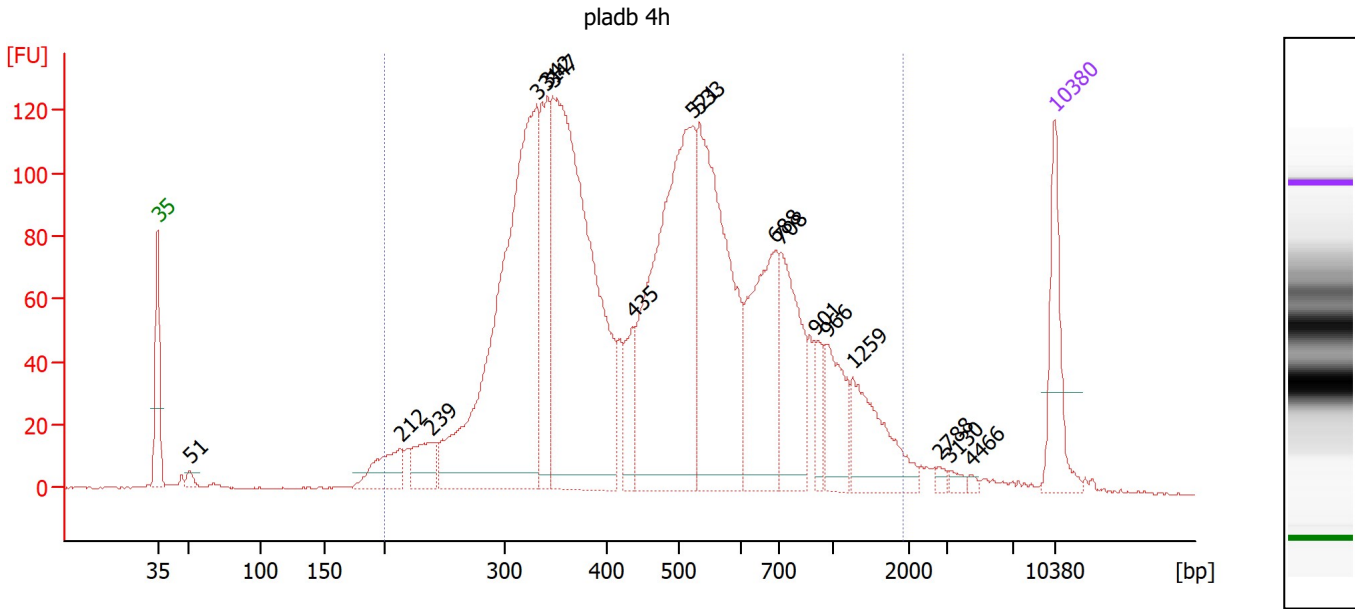
**Region table for sample 7 : dms0 4h**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	12.5	19	381	37.1	13.52	64.0	Blue

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**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : pladb 4h**

Number of peaks found: 17                      Corr. Area 1: 3,096.6  
 Noise: 0.2

**Peak table for sample 8 : pladb 4h**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	51	11.57	344.0	
3	212	63.11	450.1	
4	239	51.46	326.0	
5	331	670.68	3,068.3	
6	342	156.69	694.5	
7	347	680.90	2,971.7	
8	435	60.98	212.2	
9	521	498.03	1,447.6	
10	533	381.20	1,083.0	
11	688	202.44	446.0	
12	708	150.48	322.2	
13	901	33.49	56.3	
14	966	73.43	115.1	
15	1,259	96.97	116.7	
16	2,788	4.83	2.6	
17	3,130	6.42	3.1	
18	4,466	3.27	1.1	
19	10,380	75.00	10.9	Upper Marker

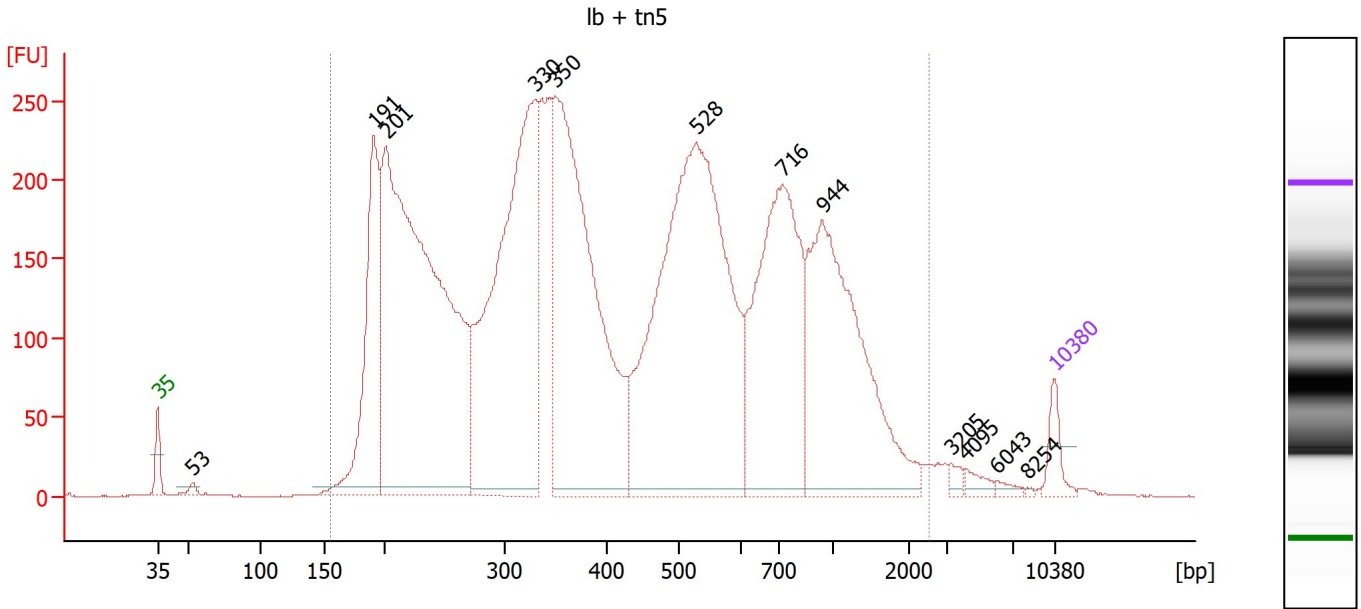
**Region table for sample 8 : pladb 4h**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,919	3,096.6	96	532	53.1	3,231.01	11,787.8	Blue

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**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : lb + tn5**

Number of peaks found: 12                      Corr. Area 1: 8,543.1  
 Noise: 0.2

**Peak table for sample 9 : lb + tn5**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	53	21.43	610.6	
3	191	956.81	7,575.0	
4	201	3,419.95	25,779.0	
5	330	2,088.06	9,591.4	
6	350	2,045.63	8,852.7	
7	528	2,444.54	7,011.2	
8	716	1,222.85	2,586.5	
9	944	1,181.72	1,897.6	
10	3,205	24.90	11.8	
11	4,095	34.10	12.6	
12	6,043	18.88	4.7	
13	8,254	4.72	0.9	
14	10,380	75.00	10.9	Upper Marker

**Region table for sample 9 : lb + tn5**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
156	2,507	8,543.1	98	515	66.3	13,813.77	61,689.6	Blue

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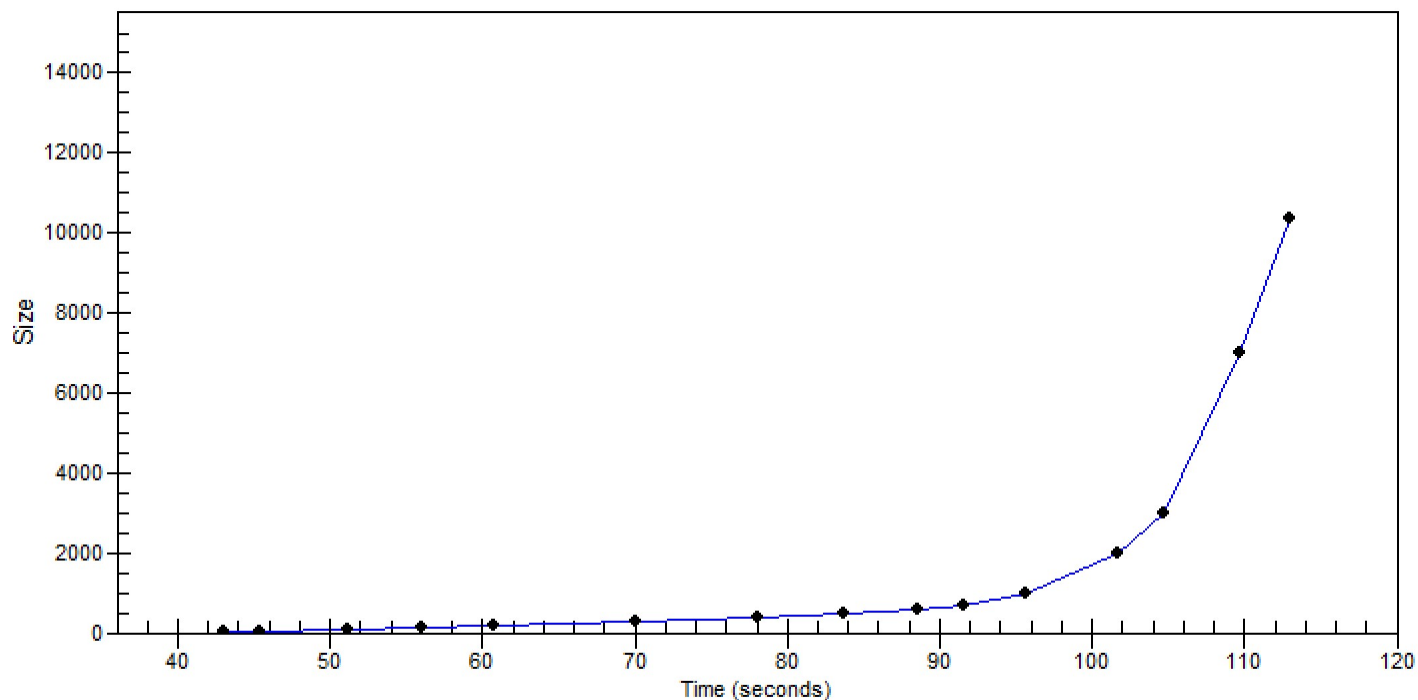
**Gel Image**

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**Curves**

**Standard Curve**



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**Invalid Samples**

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.



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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: 10)		Instrument	Run		11/26/2019 11:43:45 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: Z:\XADs\2019-11-26\Bioanalyze r1_High Sensitivity DNA Assay_2019-11-26_001.xad)		Instrument	Run		11/26/2019 11:08:13 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		11/26/2019 11:08:13 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		11/26/2019 11:08:13 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		11/26/2019 11:08:13 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		11/26/2019 11:08:13 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		11/26/2019 11:08:13 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		11/26/2019 11:08:13 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB