

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-28\2017-06-28\_002.xad

Created: 6/28/2017 10:10:21 AM  
Modified: 6/28/2017 10:48:47 AM

**Electrophoresis File Run Summary**

Instrument Information:

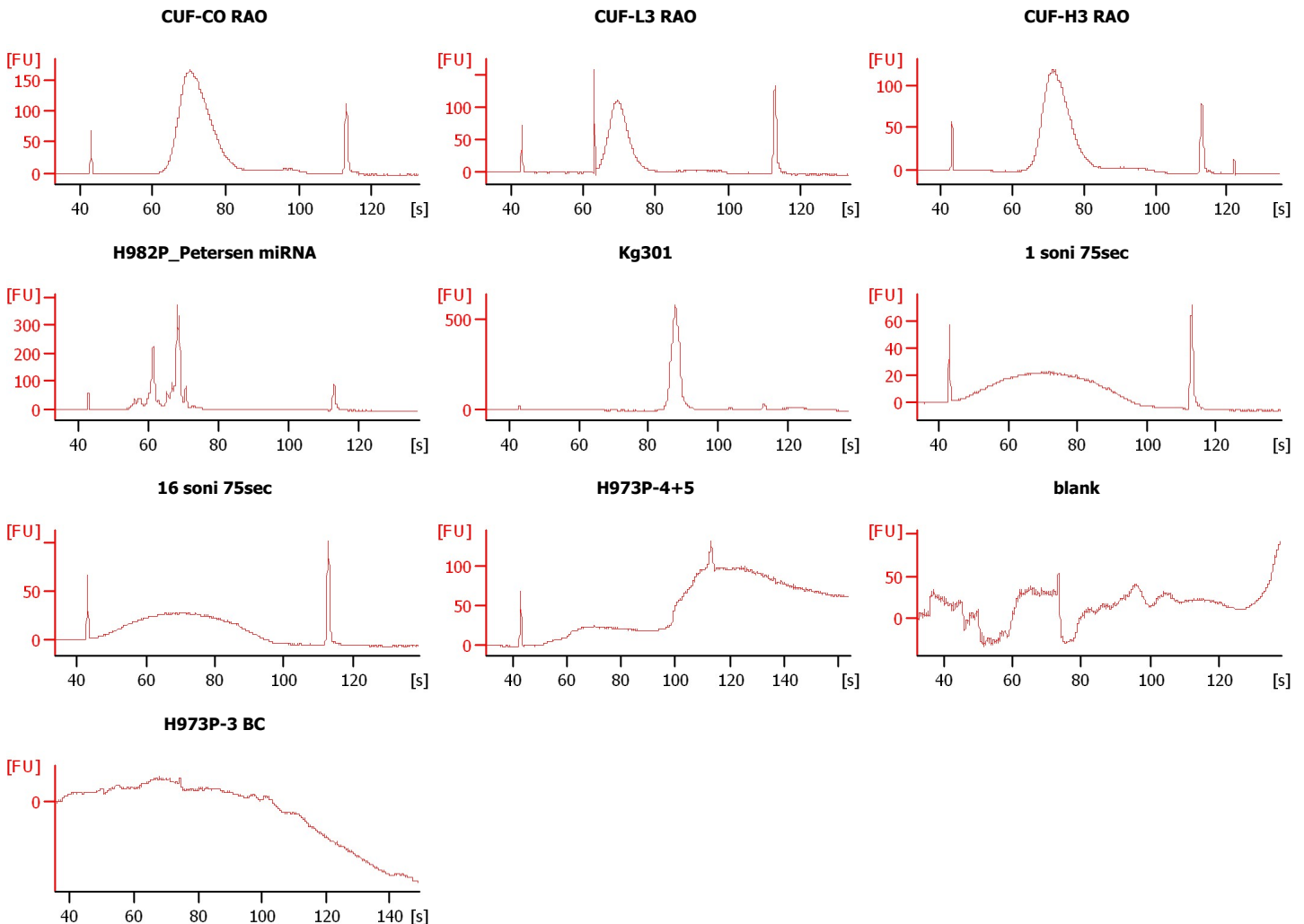
Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

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:



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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
CUF-CO RAO		<input type="checkbox"/>	✓			
CUF-L3 RAO		<input type="checkbox"/>	✓			
CUF-H3 RAO		<input type="checkbox"/>	✓			
H982P_Petersen miRNA		<input type="checkbox"/>	✓			
Kg301		<input type="checkbox"/>	✓			
1 soni 75sec		<input type="checkbox"/>	✓			
16 soni 75sec		<input type="checkbox"/>	✓			
H973P-4+5		<input type="checkbox"/>	✓			
blank		<input type="checkbox"/>	✓			
H973P-3 BC		<input type="checkbox"/>	✓			
sample 11		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

**Chip Lot #**

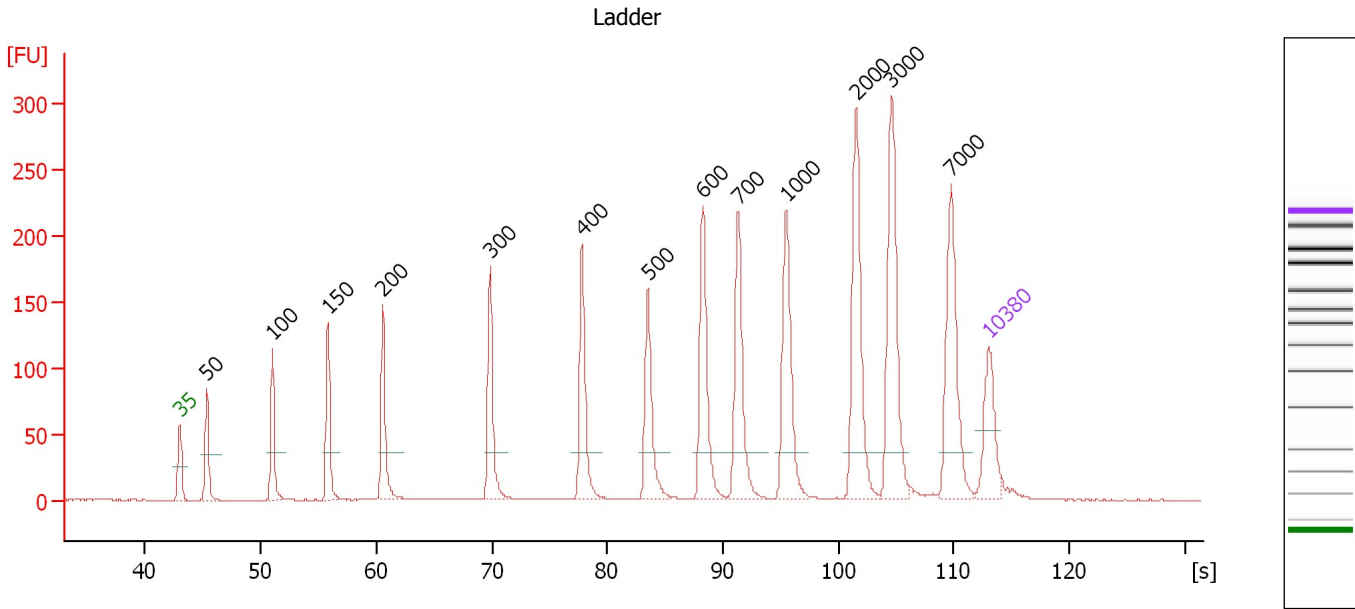
**Reagent Kit Lot #**

**Chip Comments :**

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**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

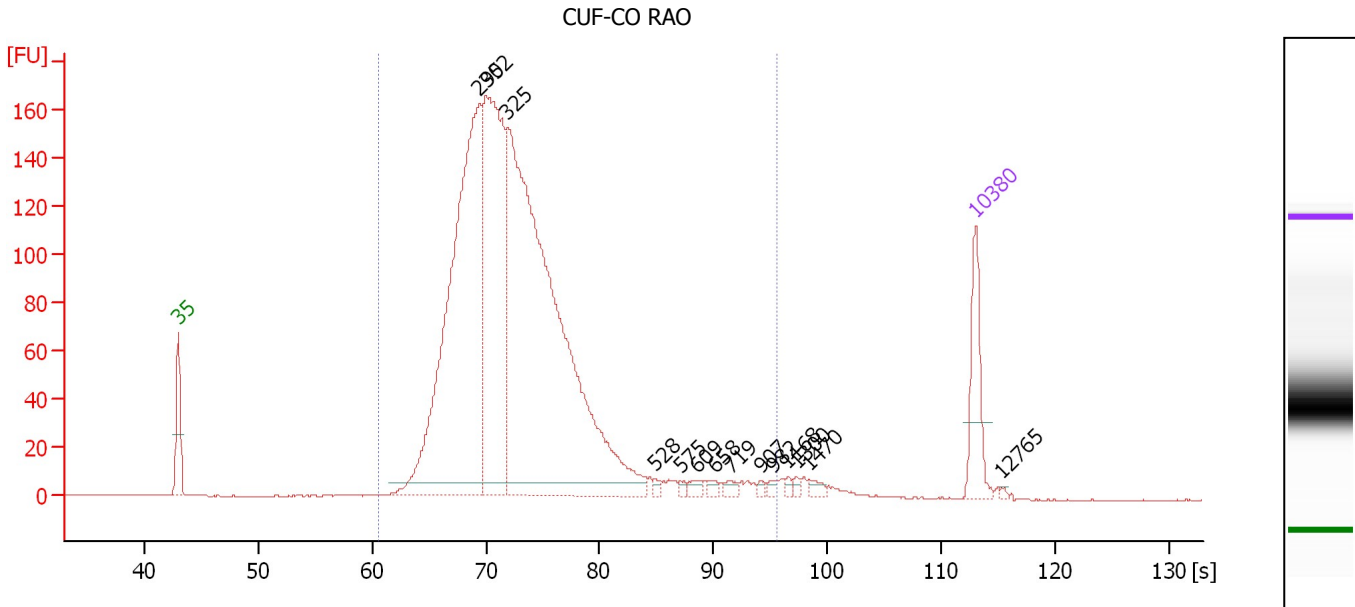
**Peak table for Ladder**

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	45.32
3	100	150.00	2,272.7	Ladder Peak	51.04
4	150	150.00	1,515.2	Ladder Peak	55.83
5	200	150.00	1,136.4	Ladder Peak	60.57
6	300	150.00	757.6	Ladder Peak	69.87
7	400	150.00	568.2	Ladder Peak	77.81
8	500	150.00	454.5	Ladder Peak	83.53
9	600	150.00	378.8	Ladder Peak	88.27
10	700	150.00	324.7	Ladder Peak	91.34
11	1,000	150.00	227.3	Ladder Peak	95.48
12	2,000	150.00	113.6	Ladder Peak	101.57
13	3,000	150.00	75.8	Ladder Peak	104.59
14	7,000	150.00	32.5	Ladder Peak	109.79
15	10,380	75.00	10.9	Upper Marker	113.00

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**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : CUF-CO RAO**

Number of peaks found: 14                      Corr. Area 1: 2,478.5  
 Noise: 0.2

**Peak table for sample 1 : CUF-CO RAO**

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	295	959.92	4,930.9		69.40
3	302	606.20	3,037.2		70.06
4	325	1,323.88	6,173.0		71.85
5	528	5.76	16.5		84.86
6	575	5.72	15.1		87.07
7	609	9.70	24.2		88.54
8	658	7.85	18.1		90.04
9	719	9.79	20.6		91.60
10	907	4.88	8.1		94.19
11	982	5.95	9.2		95.23
12	1,168	5.54	7.2		96.50
13	1,300	4.77	5.6		97.30
14	1,470	9.11	9.4		98.34
15	10,380	75.00	10.9	Upper Marker	113.00
16	12,765	0.00	0.0		115.26

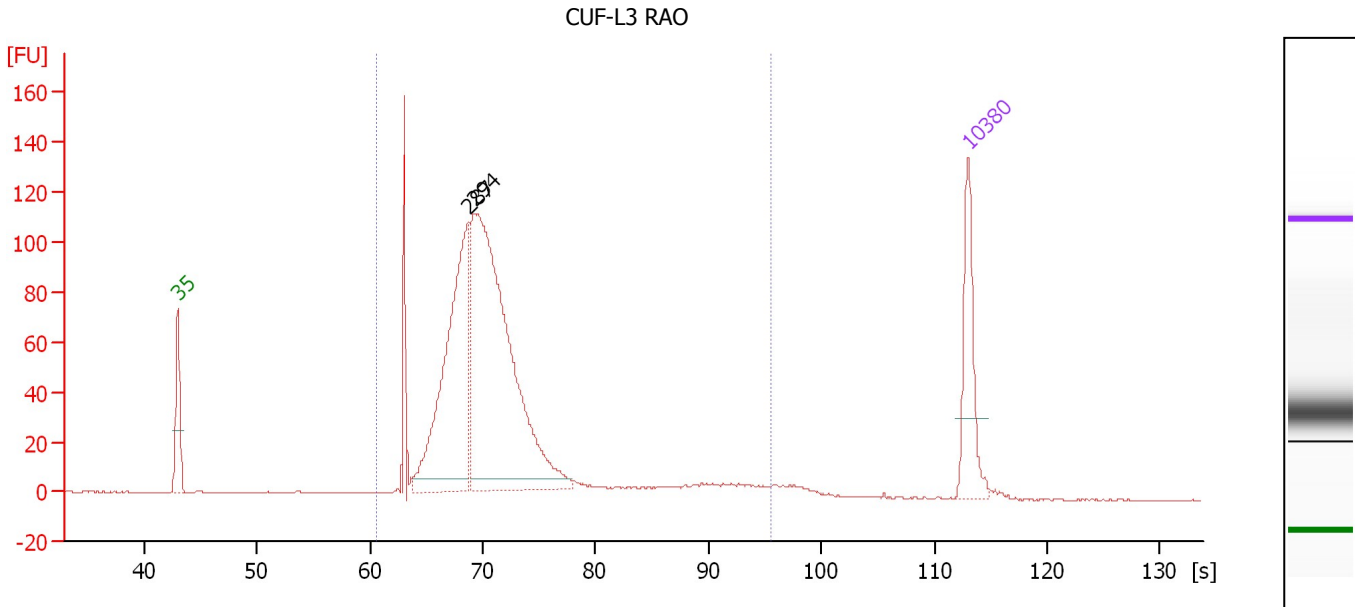
**Region table for sample 1 : CUF-CO RAO**

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	345	2,478.5	13,775.6	2,944.81	97	27.6

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**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : CUF-L3 RAO**

Number of peaks found: 2                      Corr. Area 1: 1,226.8  
 Noise: 0.2

**Peak table for sample 2 : CUF-L3 RAO**

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	287	364.54	1,922.9		68.68
3	294	633.43	3,265.7		69.30
4	10,380	75.00	10.9	Upper Marker	113.00

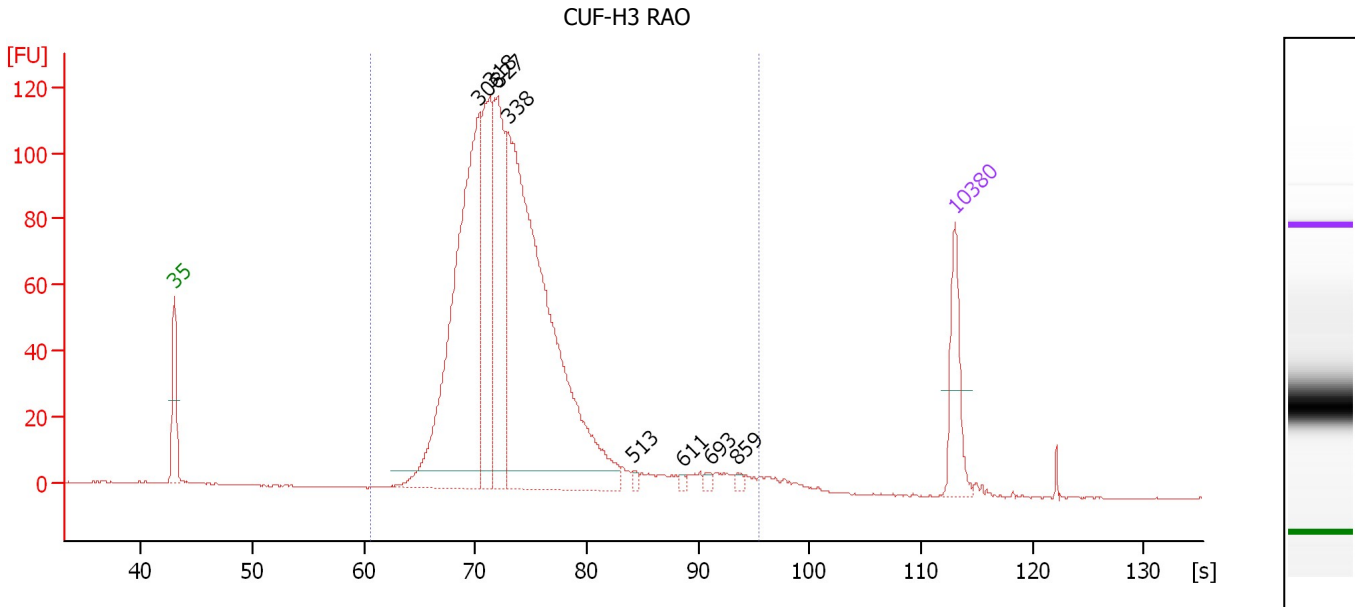
**Region table for sample 2 : CUF-L3 RAO**

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	327	1,226.8	5,801.4	1,163.90	96	32.8

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



**Overall Results for sample 3 : CUF-H3 RAO**

Number of peaks found: 8                      Corr. Area 1: 1,564.5  
 Noise: 0.2

**Peak table for sample 3 : CUF-H3 RAO**

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	306	739.81	3,659.9		70.36
3	318	271.58	1,294.8		71.28
4	327	285.79	1,324.7		72.00
5	338	1,036.69	4,641.8		72.92
6	513	6.48	19.2		84.14
7	611	4.92	12.2		88.62
8	693	6.80	14.9		91.13
9	859	5.91	10.4		93.54
10	10,380	75.00	10.9	Upper Marker	113.00

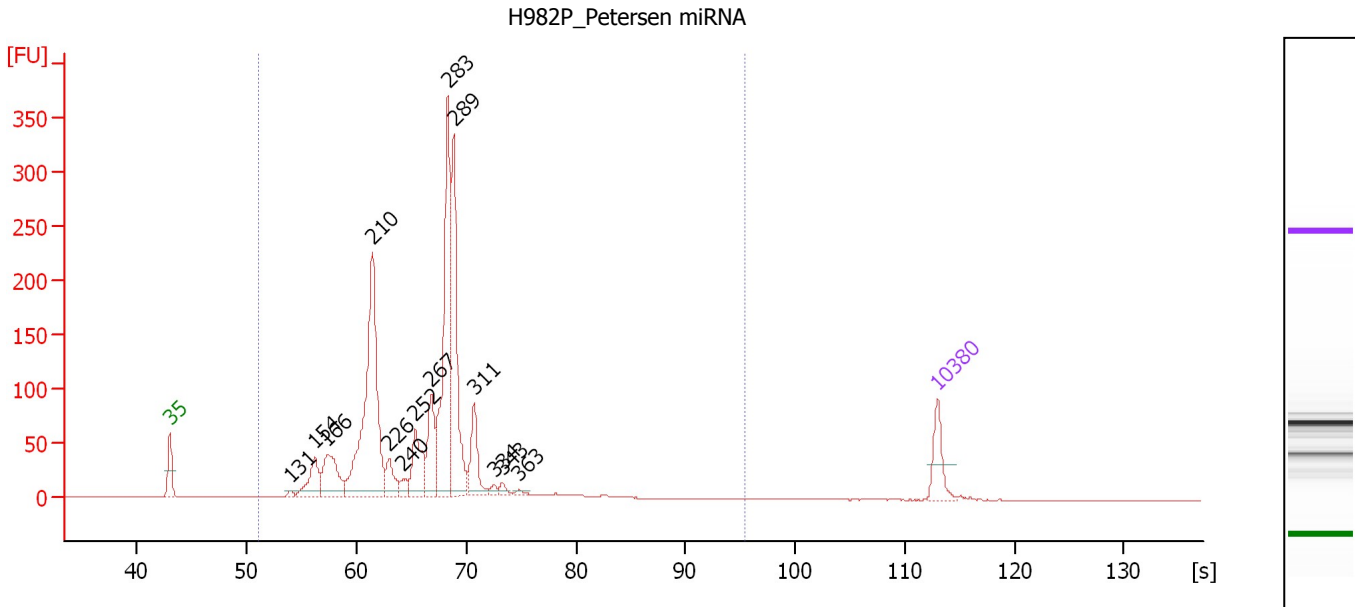
**Region table for sample 3 : CUF-H3 RAO**

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	356	1,564.5	10,960.7	2,429.75	98	26.7

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**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : H982P Petersen miRNA**

Number of peaks found: 14                      Corr. Area 1: 1,847.2  
 Noise: 0.2

**Peak table for sample 4 : H982P Petersen miRNA**

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	131	11.83	137.2		53.97
3	154	135.86	1,339.5		56.18
4	166	201.69	1,840.1		57.35
5	210	819.96	5,925.7		61.47
6	226	82.57	553.6		62.99
7	240	30.67	193.9		64.26
8	252	160.43	965.3		65.39
9	267	166.83	946.4		66.81
10	283	622.00	3,325.1		68.33
11	289	481.65	2,523.2		68.86
12	311	138.31	674.2		70.73
13	334	14.82	67.2		72.59
14	343	17.28	76.2		73.32
15	363	11.24	47.0		74.84
16	10,380	75.00	10.9	Upper Marker	113.00

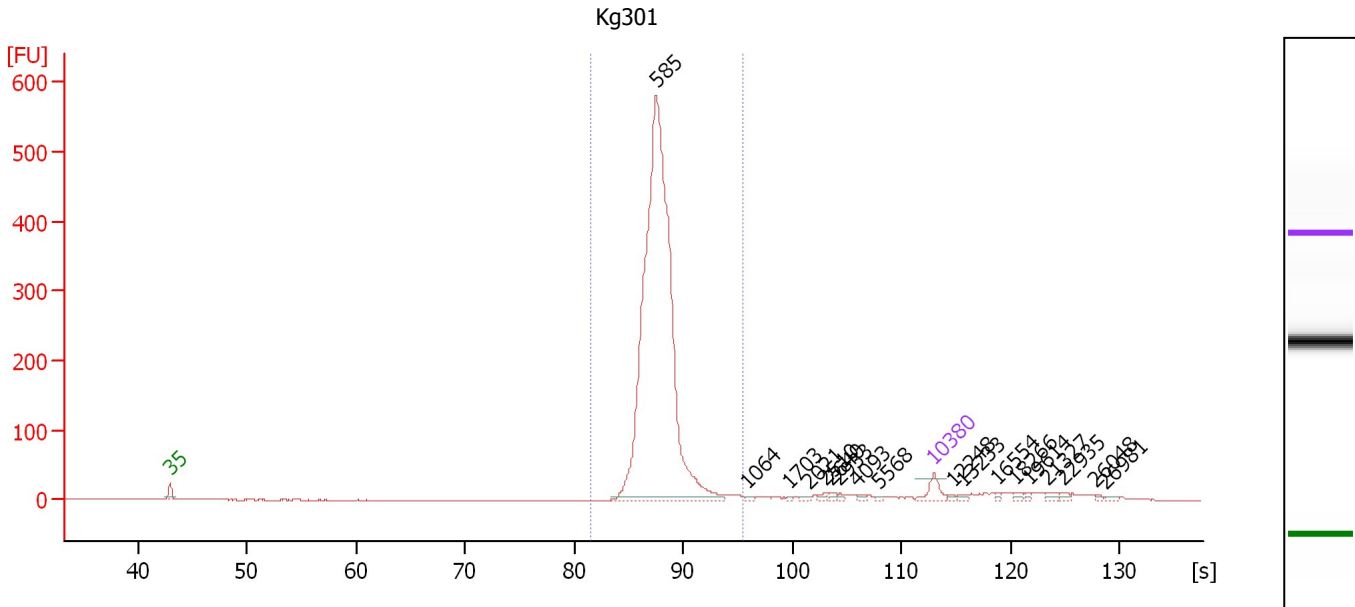
**Region table for sample 4 : H982P Petersen miRNA**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
101	1,000	256	1,847.2	19,004.5	3,031.29	100	22.0

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**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : Kg301**

Number of peaks found: 18                      Corr. Area 1: 1,910.5  
 Noise: 0.2

**Peak table for sample 5 : Kg301**

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	585	4,651.85	12,053.1		87.55
3	1,064	10.64	15.1		95.87
4	1,703	5.76	5.1		99.76
5	2,021	11.28	8.5		101.63
6	2,510	16.83	10.2		103.11
7	2,640	12.55	7.2		103.50
8	2,933	13.22	6.8		104.39
9	4,093	15.58	5.8		106.01
10	5,568	7.53	2.0		107.93
11	10,380	75.00	10.9	Upper Marker	113.00
12	12,248	0.00	0.0		114.77
13	13,233	0.00	0.0		115.71
14	16,554	0.00	0.0		118.86
15	18,266	0.00	0.0		120.48
16	19,614	0.00	0.0		121.76
17	21,327	0.00	0.0		123.39
18	22,935	0.00	0.0		124.91
19	26,048	0.00	0.0		127.87
20	26,981	0.00	0.0		128.75

**Region table for sample 5 : Kg301**

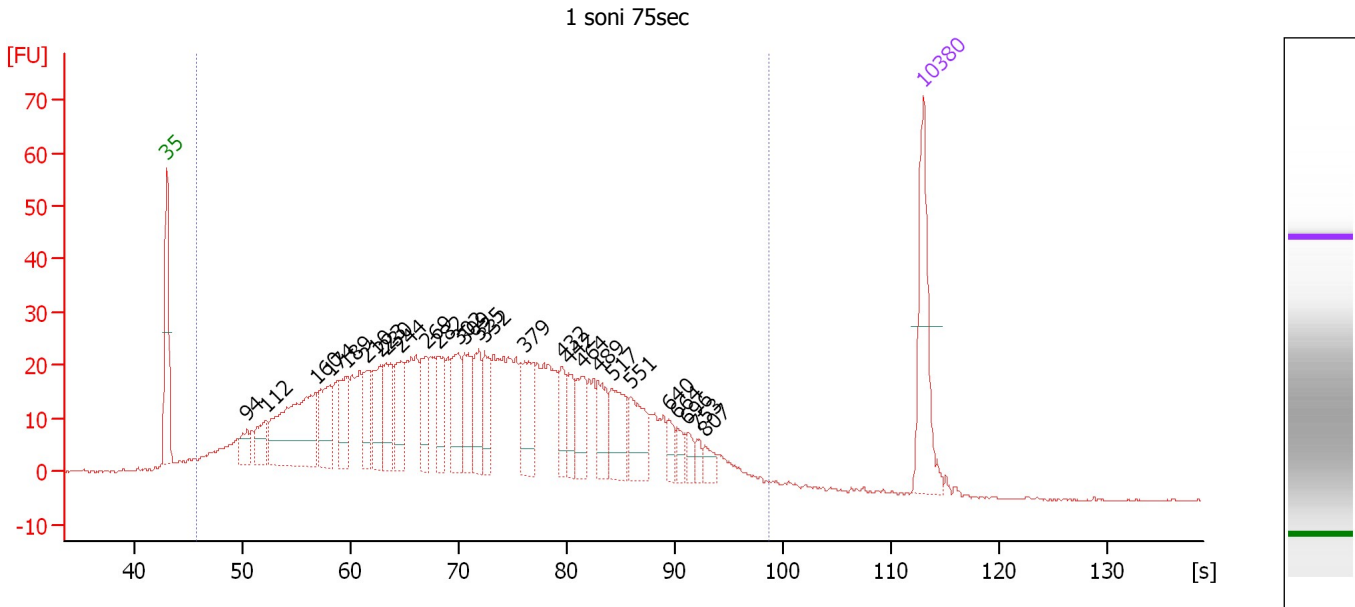
From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
465	1,000	596	1,910.5	12,004.2	4,696.92	89	8.2



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**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : 1 soni 75sec**

Number of peaks found: 27                      Corr. Area 1: 1,200.9  
 Noise: 0.2

**Peak table for sample 6 : 1 soni 75sec**

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	94	24.71	396.3		50.41
3	112	40.49	549.9		52.15
4	160	191.03	1,809.6		56.77
5	174	68.32	596.4		58.06
6	189	50.98	408.0		59.56
7	210	38.00	274.2		61.49
8	223	55.25	374.8		62.74
9	230	56.58	373.2		63.33
10	244	52.81	327.7		64.68
11	269	43.49	245.1		66.96
12	282	42.57	229.1		68.16
13	302	52.55	264.0		70.00
14	309	51.98	255.3		70.54
15	325	47.61	221.7		71.88
16	332	43.59	198.8		72.43
17	379	62.22	249.0		76.11
18	432	25.43	89.2		79.64
19	442	29.54	101.4		80.19
20	464	37.35	121.9		81.48
21	489	37.11	114.9		82.92
22	517	48.60	142.6		84.31
23	551	45.05	123.9		85.95
24	640	14.05	33.3		89.48
25	664	11.63	26.5		90.23

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### Electropherogram Summary Continued ...

#### ... Peak table for sample 6 : 1 soni 75sec

Peak	Size [bp]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	696	10.60	23.1		91.22
27	753	8.38	16.9		92.07
28	807	11.70	22.0		92.82
29	10,380	75.00	10.9	Upper Marker	113.00

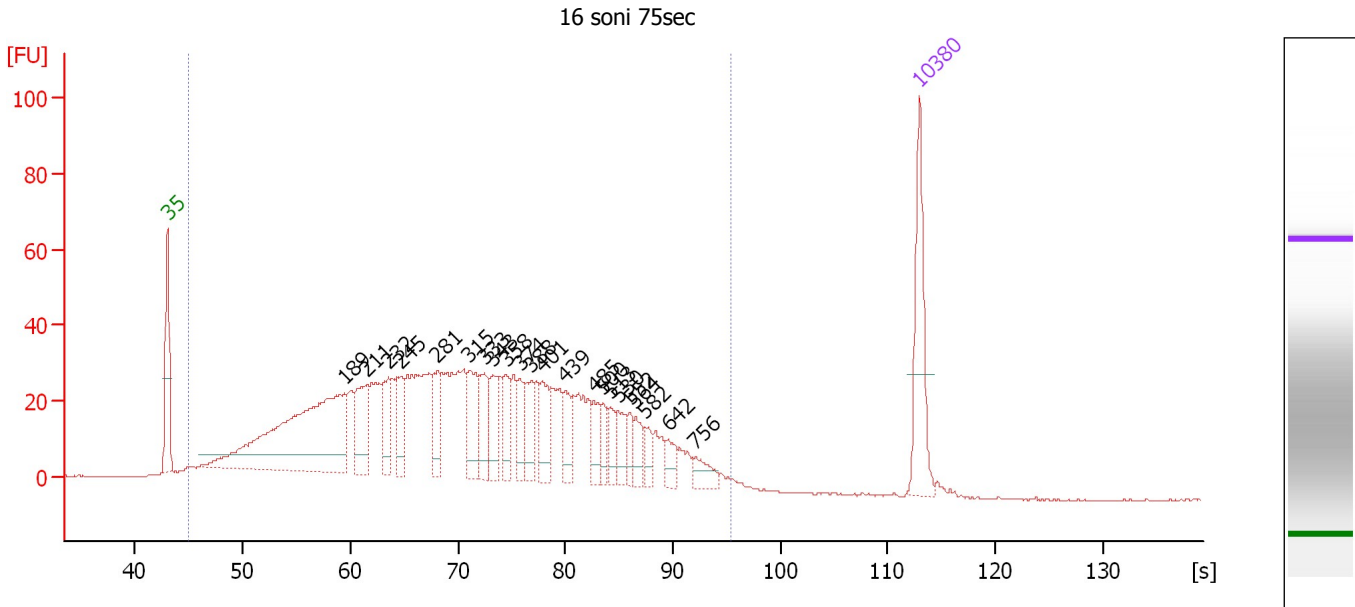
#### Region table for sample 6 : 1 soni 75sec

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/ $\mu$ l]	% of Total	Size distribution in CV [%]
54	1,534	354	1,200.9	14,329.3	2,106.32	98	54.2

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**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : 16 soni 75sec**

Number of peaks found: 22                      Corr. Area 1: 1,448.7  
 Noise: 0.2

**Peak table for sample 7 : 16 soni 75sec**

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	189	405.85	3,260.6		59.49
3	211	76.58	550.0		61.59
4	232	54.90	357.9		63.59
5	245	45.85	283.8		64.73
6	281	44.57	240.0		68.13
7	315	55.53	266.9		71.08
8	333	47.18	214.7		72.48
9	343	40.74	180.0		73.28
10	358	32.06	135.7		74.48
11	374	32.16	130.2		75.78
12	388	37.25	145.4		76.88
13	401	42.07	158.9		77.88
14	439	31.96	110.4		80.02
15	485	26.08	81.5		82.67
16	500	20.71	62.8		83.52
17	513	20.76	61.2		84.17
18	530	23.32	66.6		84.97
19	552	16.79	46.1		86.02
20	564	22.08	59.3		86.57
21	582	16.18	42.1		87.42
22	642	16.81	39.7		89.57
23	756	19.63	39.3		92.11
24	10,380	75.00	10.9	Upper Marker	113.00

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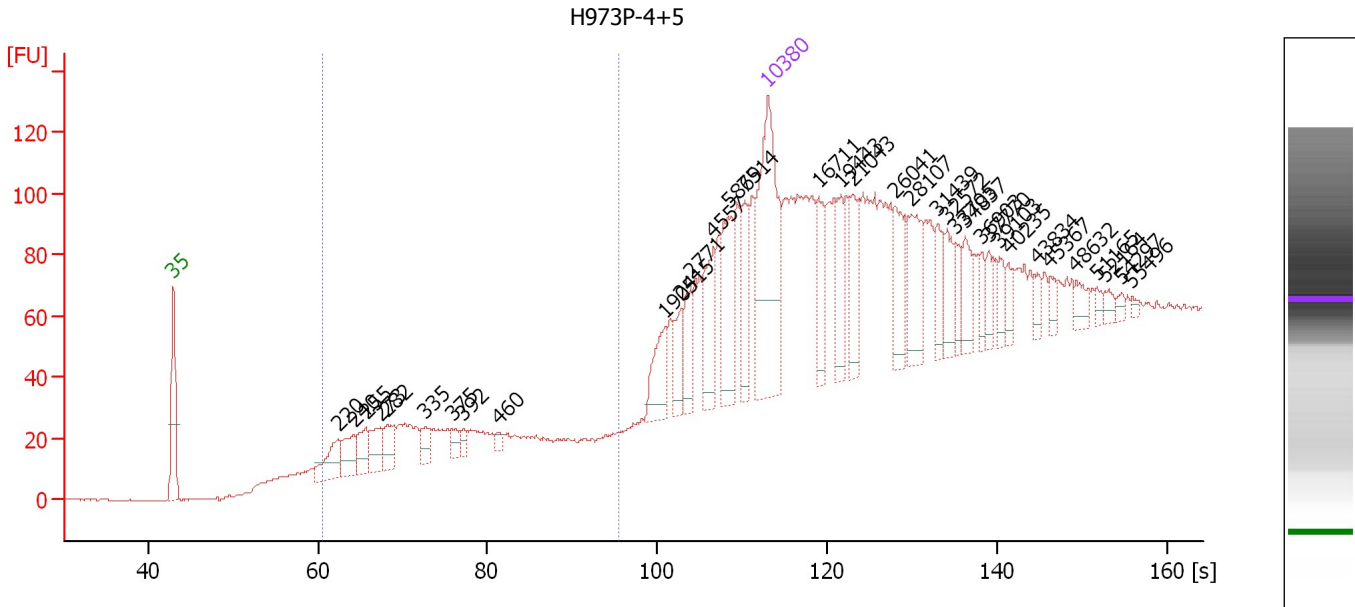
... Region table for sample 7 : 16 soni 75sec

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
48	1,000	335	1,448.7	14,593.0	2,095.55	99	48.4

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**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : H973P-4+5**

Number of peaks found: 35                      Corr. Area 1: 83.6  
 Noise: 0.2

**Peak table for sample 8 : H973P-4+5**

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	220	24.27	167.3		62.41
3	240	18.65	117.9		64.25
4	255	16.73	99.6		65.64
5	273	16.28	90.4		67.35
6	282	15.63	84.0		68.17
7	335	9.57	43.3		72.66
8	375	5.97	24.1		75.82
9	392	4.35	16.8		77.15
10	460	2.75	9.0		81.26
11	1,905	19.79	15.7		100.99
12	2,415	12.53	7.9		102.82
13	2,771	16.16	8.8		103.89
14	4,557	24.28	8.1		106.61
15	5,869	32.69	8.4		108.32
16	7,514	20.69	4.2		110.28
17	10,380	75.00	10.9	Upper Marker	113.00
18	16,711	0.00	0.0		119.01
19	19,443	0.00	0.0		121.60
20	21,043	0.00	0.0		123.12
21	26,041	0.00	0.0		127.86
22	28,107	0.00	0.0		129.82
23	31,439	0.00	0.0		132.98
24	32,572	0.00	0.0		134.06
25	33,705	0.00	0.0		135.13

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**... Peak table for sample 8 : H973P-4+5**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	34,837	0.00	0.0		136.21
27	36,903	0.00	0.0		138.17
28	37,770	0.00	0.0		138.99
29	39,103	0.00	0.0		140.25
30	40,235	0.00	0.0		141.33
31	43,834	0.00	0.0		144.74
32	45,367	0.00	0.0		146.20
33	48,632	0.00	0.0		149.30
34	51,165	0.00	0.0		151.70
35	52,164	0.00	0.0		152.65
36	54,297	0.00	0.0		154.67
37	55,496	0.00	0.0		155.81

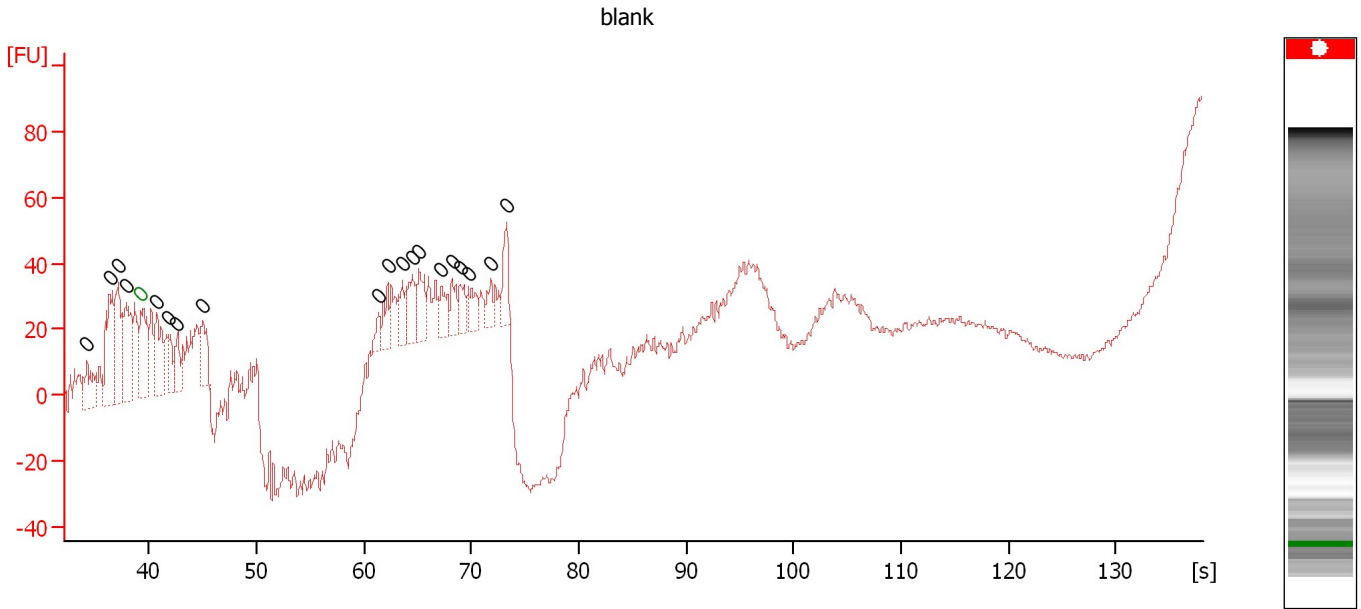
**Region table for sample 8 : H973P-4+5**

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	282	83.6	285.2	51.96	5	15.1

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**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : blank**

Number of peaks found: 19 Noise: 1.6

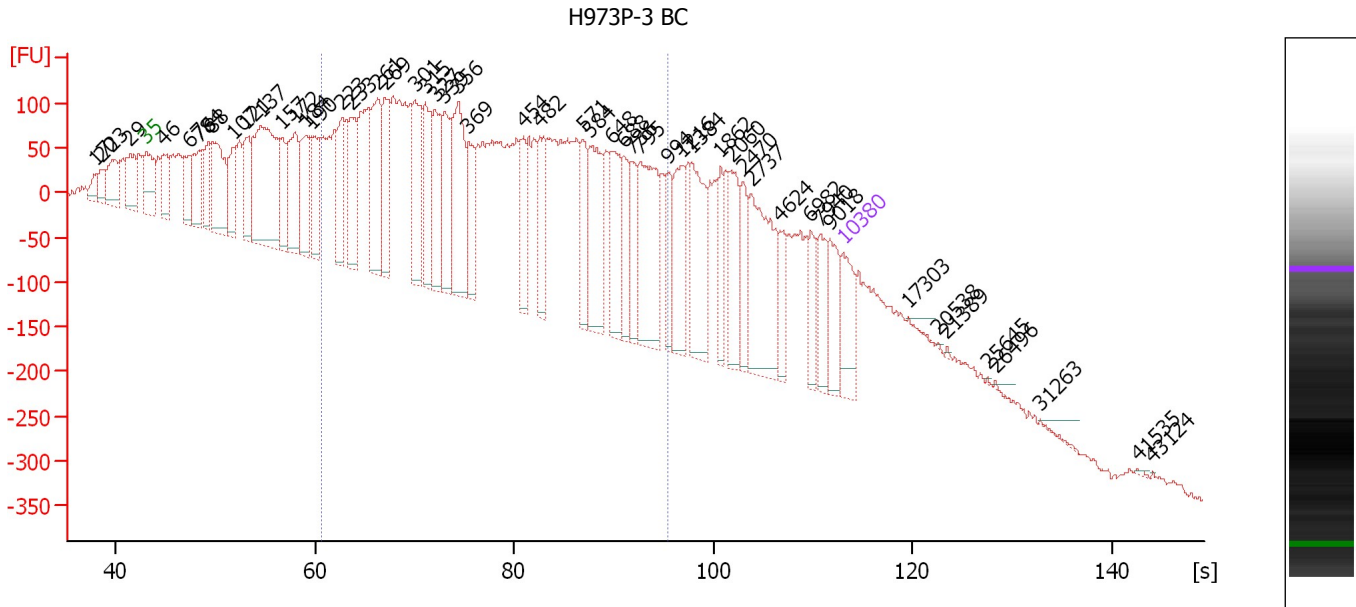
**Peak table for sample 9 : blank**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		34.15
2	0	0.00	0.0		36.30
3	0	0.00	0.0		37.10
4	0	0.00	0.0		37.85
5	0	0.00	0.0	Lower Marker	39.25
6	0	0.00	0.0		40.70
7	0	0.00	0.0		41.75
8	0	0.00	0.0		42.60
9	0	0.00	0.0		44.95
10	0	0.00	0.0		61.35
11	0	0.00	0.0		62.20
12	0	0.00	0.0		63.55
13	0	0.00	0.0		64.55
14	0	0.00	0.0		65.10
15	0	0.00	0.0		67.20
16	0	0.00	0.0		68.20
17	0	0.00	0.0		68.95
18	0	0.00	0.0		69.75
19	0	0.00	0.0		71.80
20	0	0.00	0.0		73.25

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-28\2017-06-28\_002.xad

Created: 6/28/2017 10:10:21 AM  
 Modified: 6/28/2017 10:48:47 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : H973P-3 BC**

Number of peaks found: 53                      Corr. Area 1: 8,623.6  
 Noise: 3.6

**Peak table for sample 10 : H973P-3 BC**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	17	0.00	0.0		37.88
2	20	0.00	0.0		38.58
3	23	0.00	0.0		39.50
4	29	0.00	0.0		41.33
5	35	125.00	5,411.3	Lower Marker	43.00
6	46	107.10	3,492.1		44.78
7	67	101.03	2,289.0		47.25
8	76	128.15	2,560.7		48.28
9	84	104.78	1,883.2		49.25
10	88	230.19	3,981.5		49.62
11	107	113.83	1,610.0		51.72
12	121	131.15	1,639.9		53.07
13	137	459.56	5,085.3		54.58
14	157	111.28	1,072.2		56.52
15	172	180.95	1,593.9		57.92
16	184	148.17	1,220.5		59.05
17	190	109.50	872.4		59.64
18	223	116.83	793.8		62.71
19	233	145.85	949.1		63.62
20	261	191.86	1,112.8		66.26
21	269	148.22	835.6		66.96
22	301	174.84	878.9		69.98
23	315	151.11	727.0		71.05
24	327	136.98	634.4		72.02
25	339	141.24	631.9		72.94



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-28\2017-06-28\_002.xad

Created: 6/28/2017 10:10:21 AM  
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**Electropherogram Summary Continued ...**

**... Peak table for sample 10 : H973P-3 BC**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	356	218.22	928.0		74.34
27	369	101.91	418.3		75.36
28	454	83.43	278.4		80.91
29	482	116.64	366.4		82.52
30	571	89.55	237.7		86.88
31	584	160.92	417.2		87.53
32	648	136.61	319.5		89.74
33	688	84.52	186.1		90.98
34	736	71.25	146.6		91.84
35	795	226.29	431.4		92.65
36	994	65.14	99.3		95.39
37	1,216	107.02	133.3		96.79
38	1,384	142.72	156.2		97.82
39	1,862	55.53	45.2		100.72
40	2,060	88.22	64.9		101.75
41	2,470	62.99	38.6		102.98
42	2,737	193.36	107.0		103.79
43	4,624	43.96	14.4		106.70
44	6,982	51.12	11.1		109.77
45	7,940	62.33	11.9		110.68
46	9,018	67.29	11.3		111.71
47	10,380	75.00	10.9	Upper Marker	113.00
48	17,303	0.00	0.0		119.57
49	20,538	0.00	0.0		122.64
50	21,389	0.00	0.0		123.45
51	25,645	0.00	0.0		127.48
52	26,496	0.00	0.0		128.29
53	31,263	0.00	0.0		132.82
54	41,535	0.00	0.0		142.56
55	43,124	0.00	0.0		144.07

**Region table for sample 10 : H973P-3 BC**

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	462	8,623.6	18,648.8	4,461.84	51	42.4

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-28\2017-06-28\_002.xad

Created: 6/28/2017 10:10:21 AM  
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**Gel Image**

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-28\2017-06-28\_002.xad

Created: 6/28/2017 10:10:21 AM  
Modified: 6/28/2017 10:48:47 AM

**Invalid Samples**

Sample 11 has not been run, no results available.