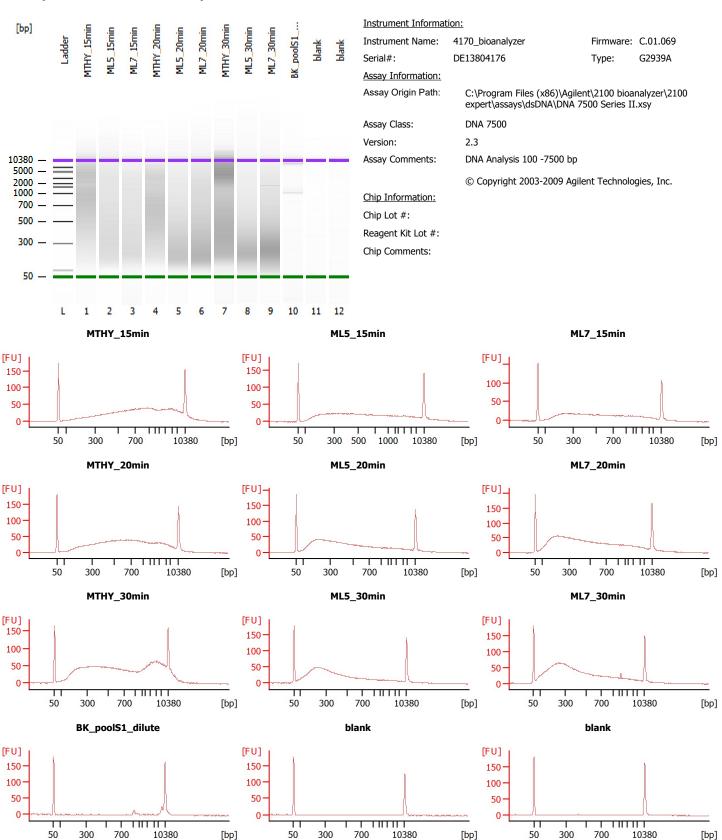
7/29/2021 2:49:46 PM Assay Class: **DNA 7500** Created: C:\...ant\2100 expert_DNA 7500_DE13804176_2021-07-29_14-49-47.xad Data Path: Modified: 7/29/2021 3:31:27 PM

Electrophoresis File Run Summary



300

700

[bp]

50

300

50

700

10380

[bp]

50

300

700

10380

[bp]

Page 2 of 23

Assay Class: DNA 7500 Created: 7/29/2021 2:49:46 PM Data Path: C:\...ant\2100 expert_DNA 7500_DE13804176_2021-07-29_14-49-47.xad Modified: 7/29/2021 3:31:27 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Statu Observation s	Result Label Result Col	or
MTHY_15min		\sqcup	✓.		
ML5_15min		\vdash	* ,		
ML7_15min		\vdash	×.		
MTHY_20min		님	Ž		
ML5_20min ML7_20min		\dashv	~		
MTHY_30min		\vdash	Ž		
ML5 30min		H	Ž		
ML7_30min		H	Ď		
BK_poolS1_dilute		H	Ž		
blank		H	Ž.		
blank		Ħ	<i>-</i>		
Ladder			~		
Chip Lot #				Reagent Kit Lot #	

Chip Comments:

Electrophoresis Assay Details

General Analysis Settings

Number of Available Sample and Ladder Wells (Max.): 13

Minimum Visible Range [s]: 20
Maximum Visible Range [s]: 94
Start Analysis Time Range [s]: 20
End Analysis Time Range [s]: 93.95
Ladder Concentration [ng/µl]: 40
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
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]: 93.95

Slope Threshold: 0.8
Height Threshold [FU]: 20
Area Threshold: 0.1
Width Threshold [s]: 0.5
Baseline Plateau [s]: 0.5

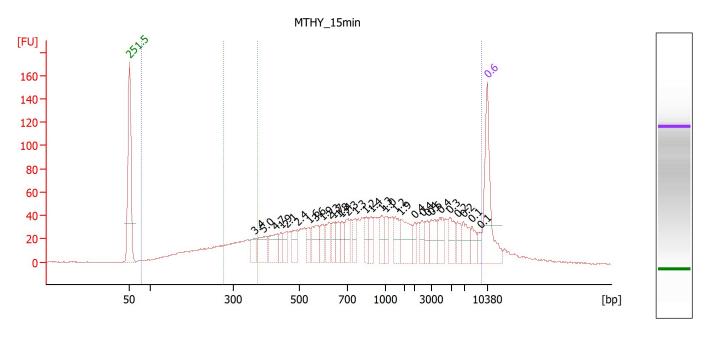
Filter Settings

Filter Width [s]: 0.5 Polynomial Order: 4

Ladder

Ladder Peak	Size	Area
1	50	120
2	100	47
3	300	63
4	500	81
5	700	85
6	1000	93
7	1500	101
8	2000	101
9	3000	106
10	5000	108
11	7000	109
12	10380	107

Electropherogram Summary



Overall Results for sample 1: MTHY 15min

Number of peaks found: 31 Area 2: 79.7

Area 1: 1,142.1

Peak table	for sample 1:	MTHY 15min		
Peak	Size [bp]	Conc. [ng/µl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	365	0.83	3.4	
3	391	1.29	5.0	
4	427	1.33	4.7	
5	444	0.56	1.9	
6	460	0.63	2.1	
7	492	0.79	2.4	
8	539	0.57	1.6	
9	566	1.36	3.6	
10	593	0.73	1.9	
11	623	0.94	2.3	
12	639	0.70	1.7	
13	660	0.77	1.8	
14	674	0.64	1.4	
15	698	1.08	2.3	
16	757	0.67	1.3	
17	844	0.68	1.2	
18	887	0.81	1.4	
19	973	0.80	1.3	
20	1,012	0.66	1.0	
21	1,264	1.03	1.2	
22	1,400	1.75	1.9	
23	1,996	0.52	0.4	
24	2,440	0.70	0.4	
25	2,744	0.64	0.4	
26	3,002	1.13	0.6	

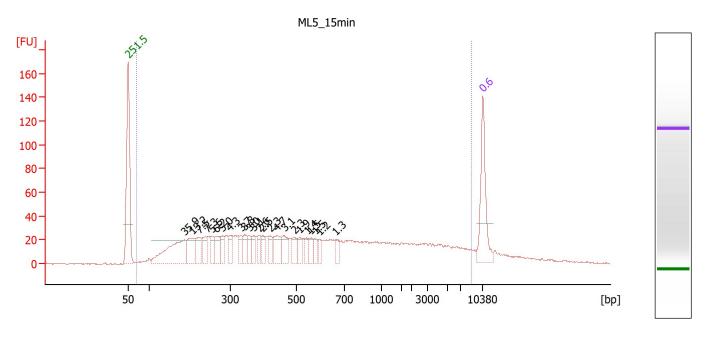
Electropherogram Summary Continued ...

Pea	Peak table for sample 1: <u>MTHY_15min</u>							
Peak		Size [bp]	Conc. [ng/µl]	Molarity [nmol/l]	Observations			
27		3,876	1.05	0.4				
28		4,825	1.07	0.3				
29		5,885	0.63	0.2				
30		6,806	1.01	0.2				
31		8,056	0.78	0.1				
32		9,303	0.40	0.1				
33		10,380	4.20	0.6	Upper Marker			

Region table for sample 1 : MTHY 15min

From [bp]	To [bp]	Area	Average Size [bp]	% of Total	Size distribution in CV [%]	Conc. [ng/µl]	Co Name lo	Molarity [nmol/l]
77	9,452	1,142.1	1,801	96	100.0	41.96	Region 1	113.8
277	372	79.7	325	7	8.8	3.82	Region 2	2 17.9

Electropherogram Summary Continued ...



Overall Results for sample 2 : <u>ML5_15min</u>

Number of peaks found: 24 Area 1: 784.5

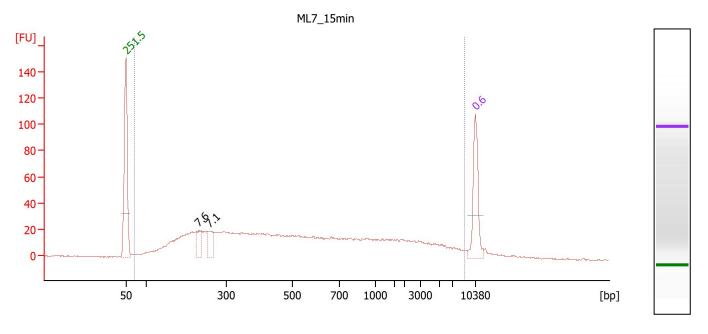
Peak ta	able	for sample 2:	ML5 15min		
Peak		Size [bp]	Conc. [ng/µl]	Molarity [nmol/I]	Observations
1	4	50	8.30	251.5	Lower Marker
2		187	4.42	35.9	
3		206	1.78	13.2	
4		222	1.10	7.5	
5		243	1.18	7.3	
6		254	0.95	5.6	
7		265	1.08	6.2	
8		279	0.92	5.0	
9		297	0.84	4.3	
10		331	0.80	3.7	
11		343	0.87	3.8	
12		355	0.70	3.0	
13		369	0.75	3.1	
14		385	0.67	2.6	
15		396	0.65	2.5	
16		419	0.63	2.3	
17		440	1.35	4.7	
18		462	0.94	3.1	
19		492	0.76	2.3	
20		512	0.64	1.9	
21		543	0.52	1.4	
22		559	0.57	1.5	
23		576	0.55	1.5	
24		594	0.48	1.2	
25		663	0.56	1.3	
26		10,380	4.20	0.6	Upper Marker

Electropherogram Summary Continued ...

Region table for sample 2:			mple 2 :	ML5_15	<u>smin</u>				
	From [bp]	To [bp]	Area	Average Size [bp]	% of Total	Size distribution in CV [%]	Conc. [ng/µl]	Co Name lo r	Molarity [nmol/l]
	69	8,621	784.5	1,129	93	100.0	42.37	Region 1	168.4

7/29/2021 2:49:46 PM 7/29/2021 3:31:27 PM Assay Class: DNA 7500 Created: C:\...ant\2100 expert_DNA 7500_DE13804176_2021-07-29_14-49-47.xad Data Path: Modified:

Electropherogram Summary Continued ...



Overall Results for sample 3: ML7_15min

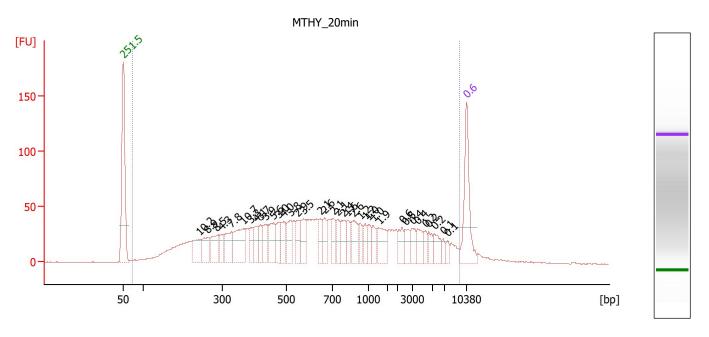
Number of peaks found: 607.3 Area 1:

Peak table for sample 3:			<u>ML7_15min</u>		
Peak		Size [bp]	Conc. [ng/µl]	Molarity [nmol/l]	Observations
1	4	50	8.30	251.5	Lower Marker
2		230	1.15	7.6	
3		257	1.19	7.1	
4		10,380	4.20	0.6	Upper Marker

Region table for sample 3: ML7_15min

From [bp]	To [bp]	Area	Average Size [bp]	% of Total	Size distribution in CV [%]	Conc. [ng/µl]	Co Name lo r	Molarity [nmol/l]
70	8 733	607 3	1 075	96	100.0	41 48	Region :	1 166 4

Electropherogram Summary Continued ...



Overall Results for sample 4: MTHY 20min

Number of peaks found: 37 Area 1: 1,169.2

Peak table	for sample 4:	MTHY 20min		
Peak	Size [bp]	Conc. [ng/µl]	Molarity [nmol/I]	Observations
1	50	8.30	251.5	Lower Marker
2	242	1.63	10.2	
3	261	1.53	8.9	
4	285	1.60	8.5	
5	296	0.83	4.3	
6	328	1.68	7.8	
7	364	2.56	10.7	
8	388	0.83	3.3	
9	407	1.09	4.1	
10	419	1.02	3.7	
11	433	1.11	3.9	
12	458	1.70	5.6	
13	474	0.94	3.0	
14	490	1.28	4.0	
15	515	1.29	3.8	
16	546	1.05	2.9	
17	573	1.33	3.5	
18	645	0.88	2.1	
19	663	1.15	2.6	
20	703	0.96	2.1	
21	741	1.01	2.1	
22	793	1.23	2.4	
23	825	0.88	1.6	
24	873	1.48	2.6	
25	934	0.72	1.2	
26	972	0.77	1.2	
27	998	0.69	1.0	

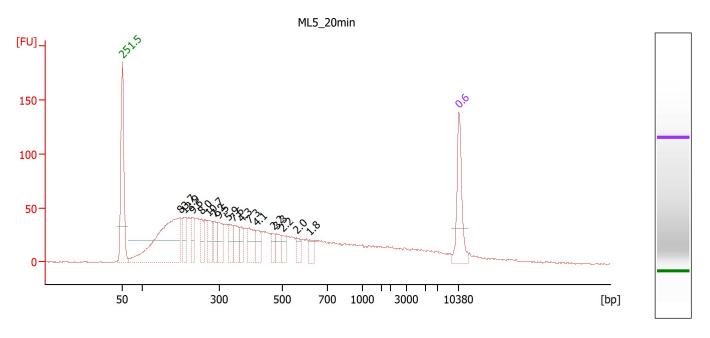
Electropherogram Summary Continued ...

Pea	k tab	ole for sample	e4: <u>MTHY</u> 2	<u>20min</u>	
Peak		Size [bp]	Conc. [ng/µl]	Molarity [nmol/l]	Observations
28		1,125	0.78	1.0	
29		1,287	1.60	1.9	
30		2,319	0.94	0.6	
31		2,515	0.88	0.5	
32		3,004	0.87	0.4	
33		3,479	0.95	0.4	
34		4,271	0.50	0.2	
35		4,666	0.56	0.2	
36		5,334	0.80	0.2	
37		6,713	0.43	0.1	
38		7,426	0.36	0.1	
39		10,380	4.20	0.6	Upper Marker

Region table for sample 4: <u>MTHY 20min</u>

From [bp]	To [bp]	Area	Average Size [bp]	% of Total	Size distribution in CV [%]	Conc. [ng/µl]	Co Name lo r	Molarity [nmol/l]
72	9,238	1,169.2	1,324	97	100.0	54.36	Region 1	173.6

Electropherogram Summary Continued ...

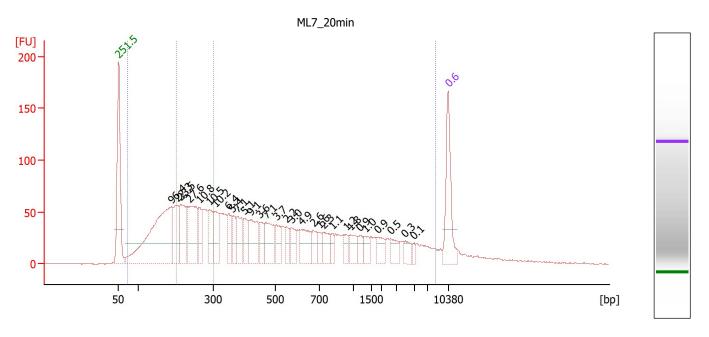


Overall Results for sample 5 : <u>ML5_20min</u>

Number of peaks found: 17

Peak tabl	e for sample 5:	ML5 20min		
Peak	Size [bp]	Conc. [ng/µl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	197	10.90	83.7	
3	209	1.78	12.9	
4	229	1.45	9.6	
5	253	1.34	8.0	
6	270	1.91	10.7	
7	285	1.35	7.2	
8	297	1.86	9.5	
9	329	1.28	5.9	
10	344	1.72	7.6	
11	368	1.03	4.3	
12	394	1.90	7.3	
13	417	1.12	4.1	
14	470	0.68	2.2	
15	481	1.05	3.3	
16	499	0.73	2.2	
17	563	0.76	2.0	
18	620	0.75	1.8	
19	10,380	4.20	0.6	Upper Marker

Electropherogram Summary Continued ...



Overall Results for sample 6 : <u>ML7_20min</u>

Number of peaks found: 30 Area 2: 270.7

Area 1: 1,386.6

Peak table	e for sample 6:	<u>ML7_20min</u>		
Peak	Size [bp]	Conc. [ng/µl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	188	11.93	96.4	
3	203	2.99	22.3	
4	213	3.30	23.5	
5	236	4.30	27.6	
6	262	1.87	10.8	
7	289	2.01	10.5	
8	306	2.05	10.2	
9	348	1.46	6.4	
10	360	1.28	5.4	
11	378	1.77	7.1	
12	399	1.35	5.1	
13	420	2.52	9.1	
14	450	1.07	3.6	
15	470	2.21	7.1	
16	506	1.25	3.7	
17	551	0.81	2.2	
18	575	1.13	3.0	
19	618	2.01	4.9	
20	671	1.15	2.6	
21	701	0.74	1.6	
22	732	1.13	2.3	
23	809	0.57	1.1	
24	932	0.75	1.2	
25	973	1.13	1.8	
26	1,167	0.73	0.9	

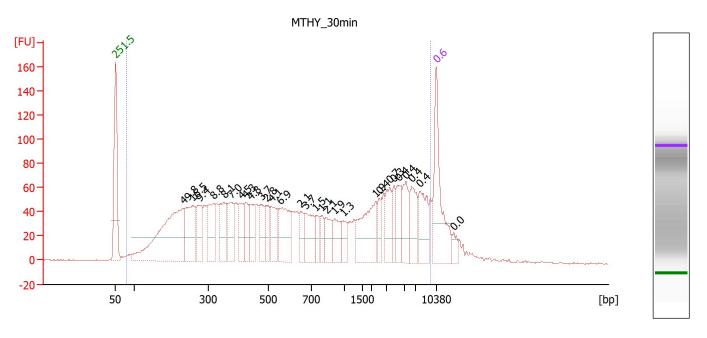
Electropherogram Summary Continued ...

Pea	ak table fo	r sample	e 6 :	ML7_20m	<u>in</u>	
Peak	Size	e [bp]	Conc. [ng/µl]	Molarity [nmol/l]	Observations
27	1,32	24	0.88		1.0	
28	1,76	59	1.03		0.9	
29	2,60)1	0.92		0.5	
30	3,92	21	0.71		0.3	
31	4,87	70	0.31		0.1	
32	10,3	380	4.20		0.6	Upper Marker

Region table for sample 6 : <u>ML7 20min</u>

From [bp]	To [bp]	Area	Average Size [bp]	% of Total	Size distribution in CV [%]	Conc. [ng/µl]	Co Name lo	Molarity [nmol/l]
74	8,279	1,386.6	872	94	100.0	67.83	Region 1	337.0
200	300	270.7	248	18	11.8	15.99	Region 2	97.7

Electropherogram Summary Continued ...



Overall Results for sample 7: MTHY 30min

Number of peaks found: 28 Area 1: 1,656.5

Peak table	for sample 7:	MTHY_30min		
Peak	Size [bp]	Conc. [ng/µl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	231	7.59	49.8	
3	258	2.80	16.5	
4	274	1.69	9.4	
5	317	1.85	8.8	
6	352	1.88	8.1	
7	377	1.75	7.0	
8	410	1.22	4.5	
9	425	1.20	4.3	
10	441	1.41	4.8	
11	479	1.17	3.7	
12	495	0.91	2.8	
13	513	1.39	4.1	
14	556	2.51	6.9	
15	651	0.91	2.1	
16	671	1.66	3.7	
17	739	0.71	1.5	
18	791	0.57	1.1	
19	832	1.13	2.1	
20	911	1.12	1.9	
21	987	0.82	1.3	
22	2,286	2.93	1.9	
23	2,548	0.73	0.4	
24	3,411	1.48	0.7	
25	3,878	0.76	0.3	
26	4,387	1.17	0.4	
27	5,227	1.55	0.4	

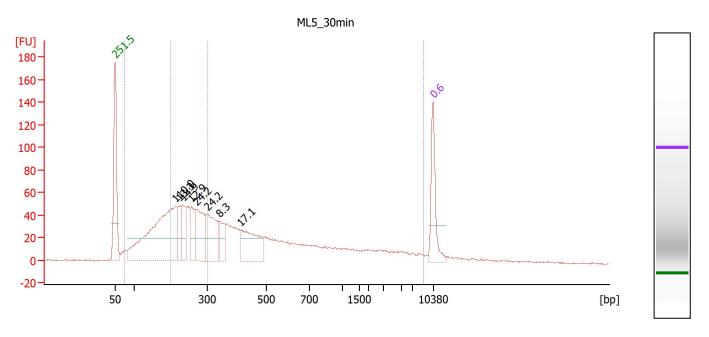
Electropherogram Summary Continued ...

Pea	k ta	ble for sample	e7: <u>MTHY_30</u>	<u>lmin</u>	
Peak		Size [bp]	Conc. [ng/µl]	Molarity [nmol/l]	Observations
28		6,319	1.46	0.4	
29		7,594	1.89	0.4	
30		10,380	4.20	0.6	Upper Marker
31		13,166	0.00	0.0	

Region table for sample 7	' :	<u>MTHY</u>	<u> 30min</u>
---------------------------	------------	-------------	---------------

From [bp]	To [bp]	Area	Average Size [bp]	% of Total	Size distribution in CV [%]	Conc. [ng/µl]	Co Name lo	Molarity [nmol/l]
77	9,425	1,656.5	1,778	95	100.0	55.14	Region 1	188.3

Electropherogram Summary Continued ...



Overall Results for sample 8 : ML5_30min

Number of peaks found: 8 Area 2: 223.3

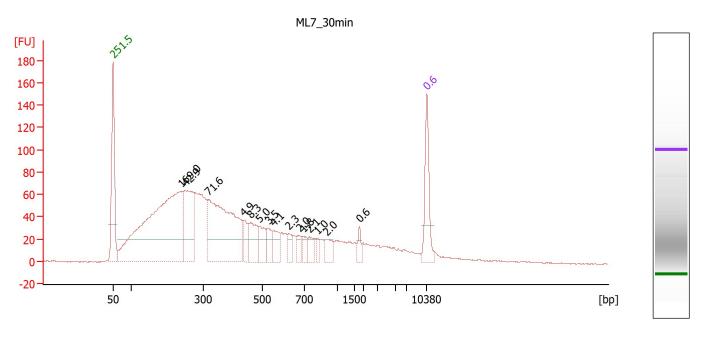
Area 1: 864.6

Peak t	able	for sample 8:	ML5 30min		
Peak		Size [bp]	Conc. [ng/µl]	Molarity [nmol/l]	Observations
1	4	50	8.30	251.5	Lower Marker
2		213	15.49	110.0	
3		224	1.96	13.3	
4		235	2.32	14.9	
5		256	2.19	12.9	
6		270	4.31	24.2	
7		300	4.79	24.2	
8		343	1.87	8.3	
9		413	4.68	17.1	
10		10,380	4.20	0.6	Upper Marker

Region table for sample 8 : <u>ML5 30min</u>

From [bp]	To [bp]	Area	Average Size [bp]	% of Total	Size distribution in CV [%]	Conc. [ng/µl]	Co Name lo r	Molarity [nmol/l]
74	8,792	864.6	719	95	100.0	59.08	Region 1	328.1
200	300	223.3	248	25	11.6	17.52	Region 2	107.1

Electropherogram Summary Continued ...

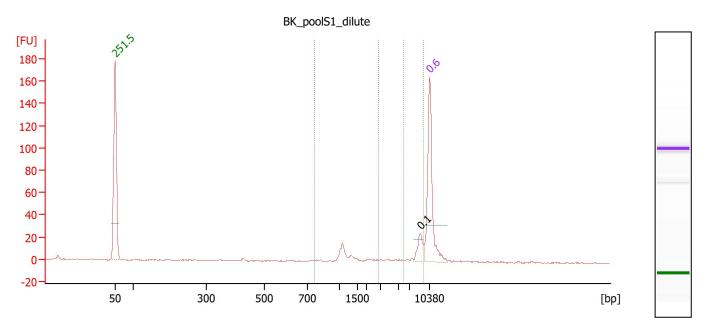


Overall Results for sample 9 : <u>ML7_30min</u>

Number of peaks found: 15

Peak t	able	for sample 9:	ML7 30min		
Peak		Size [bp]	Conc. [ng/µl]	Molarity [nmol/l]	Observations
1	4	50	8.30	251.5	Lower Marker
2		237	26.42	169.0	
3		248	7.03	42.9	
4		316	14.93	71.6	
5		436	1.41	4.9	
6		461	2.53	8.3	
7		491	1.63	5.0	
8		527	1.21	3.5	
9		554	1.50	4.1	
10		625	0.93	2.3	
11		675	0.87	2.0	
12		694	0.84	1.8	
13		744	1.02	2.1	
14		821	0.54	1.0	
15		898	1.18	2.0	
16		1,773	0.69	0.6	
17		10,380	4.20	0.6	Upper Marker

Electropherogram Summary Continued ...



Overall Results for sample 10 : BK poolS1 dilute

Number of peaks found: 1 Area 2: 21.7

Area 1: 20.4

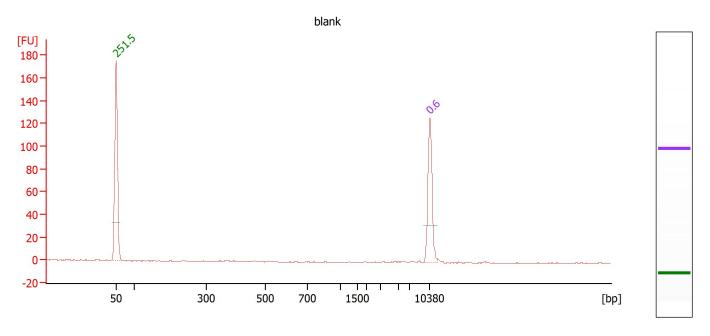
Peak table for sample 10 : BK poolS1 dilute

Peak		Size [bp]	Conc. [ng/µl]	Molarity [nmol/l]	Observations
1	4	50	8.30	251.5	Lower Marker
2		8,704	0.71	0.1	
3		10,380	4.20	0.6	Upper Marker

Region table for sample 10 : BK poolS1 dilute

From [bp]	To [bp]	Area	Average Size [bp]	% of Total	Size distribution in CV [%]	Conc. [ng/µl]	Co Name lo r	Molarity [nmol/l]
768	2,823	20.4	1,293	37	33.3	0.79	Region 1	1.0
5,813	9,378	21.7	8,468	39	8.2	0.76	Region 2	2 0.1

Electropherogram Summary Continued ...

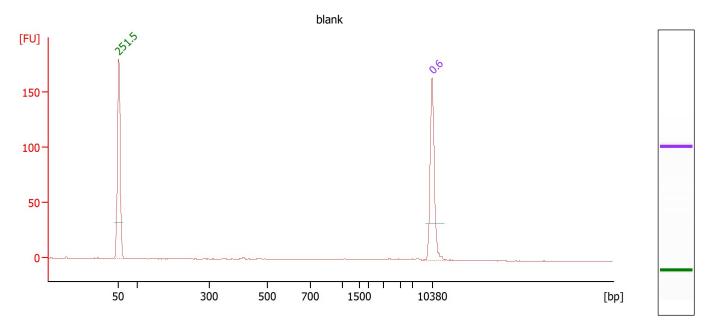


Overall Results for sample 11: <u>blank</u>

Number of peaks found:

Peak table for sample 11: <u>blank</u>							
Peak		Size [bp]	Conc. [ng/µl]	Molarity [nmol/l]	Observations		
1	4	50	8.30	251.5	Lower Marker		
2		10,380	4.20	0.6	Upper Marker		

Electropherogram Summary Continued ...



Overall Results for sample 12: <u>blank</u>

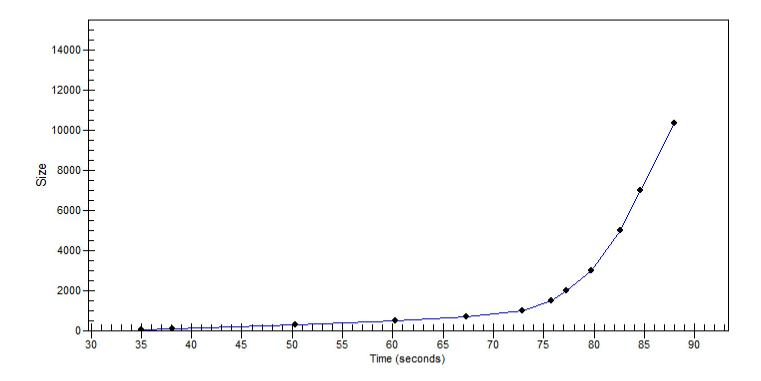
Number of peaks found:

Peak table for sample 12: <u>blank</u>							
Peak		Size [bp]	Conc. [ng/µl]	Molarity [nmol/l]	Observations		
1	4	50	8.30	251.5	Lower Marker		
2		10,380	4.20	0.6	Upper Marker		

7/29/2021 2:49:46 PM 7/29/2021 3:31:27 PM Assay Class: DNA 7500 Created: Modified: C:\...ant\2100 expert_DNA 7500_DE13804176_2021-07-29_14-49-47.xad Data Path: **Gel Image** BK_poolS1_... [bp] MTHY_15min MTHY 20min MTHY 30min ML5_15min ML7_15min ML5_20min ML7_20min ML5_30min ML7_30min Ladder blank 10380 — 7000 -5000 -3000 — 2000 -1500 -1000 — 700 -500 - 4 300 - -100 - -50 — 2 L 1 5 6 8 9 10 11 12

Curves

Standard Curve



Assay Class: Data Path:

7/29/2021 2:49:46 PM 7/29/2021 3:31:27 PM DNA 7500 C:\...ant\2100 expert_DNA 7500_DE13804176_2021-07-29_14-49-47.xad Created: Modified:

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 3 (Number of wells acquired: 13)		Instrument	Run		7/29/2021 3:23:47 PM	(GMT07:00) Pacific Standard Time	Bioanalyzer	BIOANALYZERP C
Run started on port 3 (File: C:\Program Files (x86)\Agilent\21 00 bioanalyzer\210 0 expert\Data\202 1-07-29\2100 expert_DNA 7500_DE138041 76_2021-07-29_14-49-47.xad)	<u>.</u>	Instrument	Run		7/29/2021 2:49:52 PM	(GMT07:00) Pacific Standard Time	Bioanalyzer	BIOANALYZERP C
Product Number : G2939A		Instrument	Run		7/29/2021 2:49:52 PM	(GMT07:00) Pacific Standard Time	Bioanalyzer	BIOANALYZERP C
Name : 4170_bioanalyz er		Instrument	Run		7/29/2021 2:49:52 PM	(GMT07:00) Pacific Standard Time		BIOANALYZERP C
Vendor : Agilent Technologies	:	Instrument	Run		7/29/2021 2:49:52 PM	(GMT07:00) Pacific Standard Time	Bioanalyzer	BIOANALYZERP C
Serial# : DE13804176		Instrument	Run		7/29/2021 2:49:52 PM	(GMT07:00) Pacific Standard Time	Bioanalyzer	BIOANALYZERP C
Firmware : C.01.069		Instrument	Run		7/29/2021 2:49:52 PM	(GMT07:00) Pacific Standard Time	Bioanalyzer	BIOANALYZERP C
Cartridge : Electrode		Instrument	Run		7/29/2021 2:49:52 PM	(GMT07:00) Pacific Standard Time	Bioanalyzer	BIOANALYZERP C