This supplementary file is the part of the following article.

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SUPPLEMENTARY F ILE

Supplemental Material

Figure S1: *Three DNA Extraction Techniques, described in main text.*

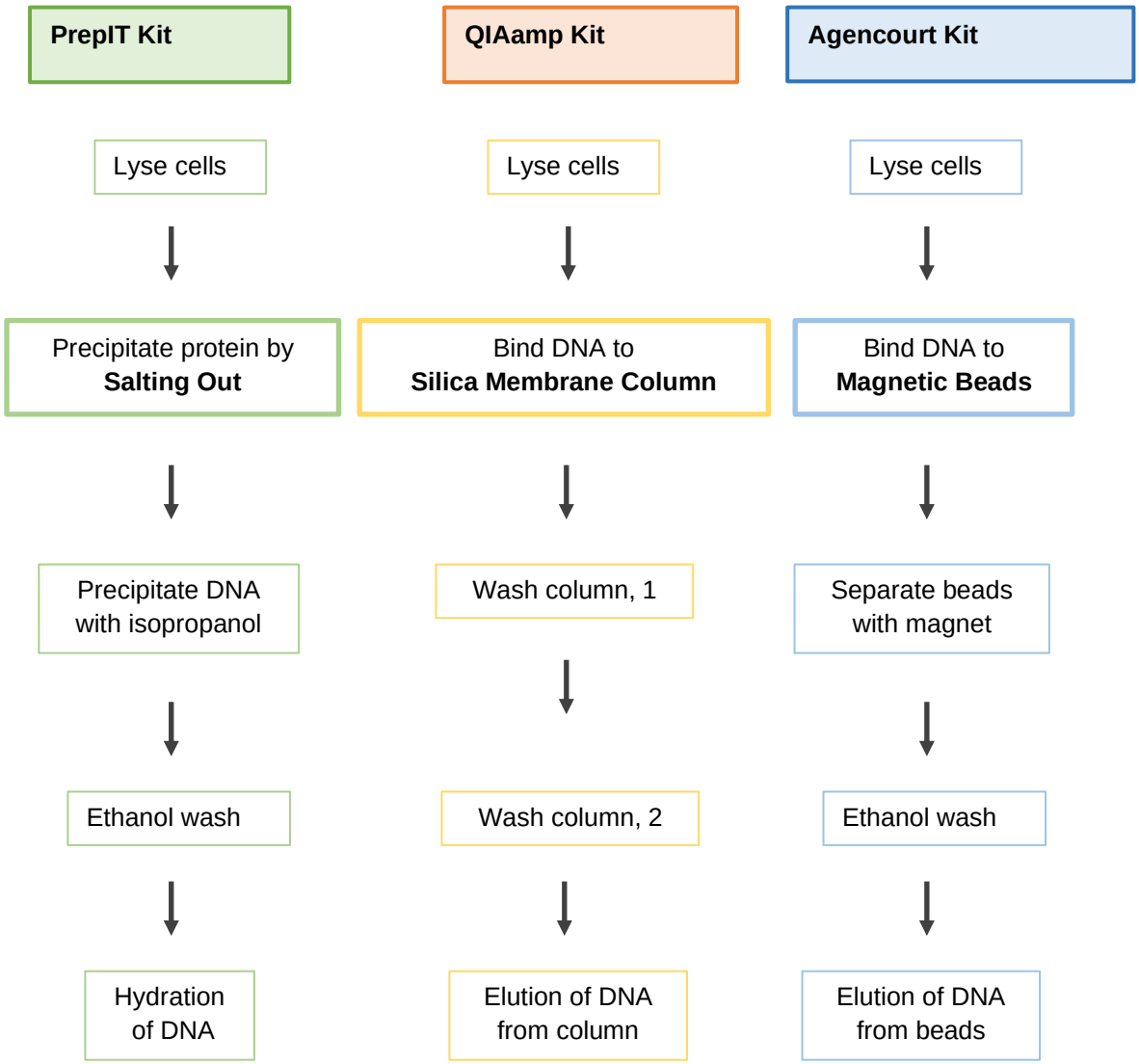
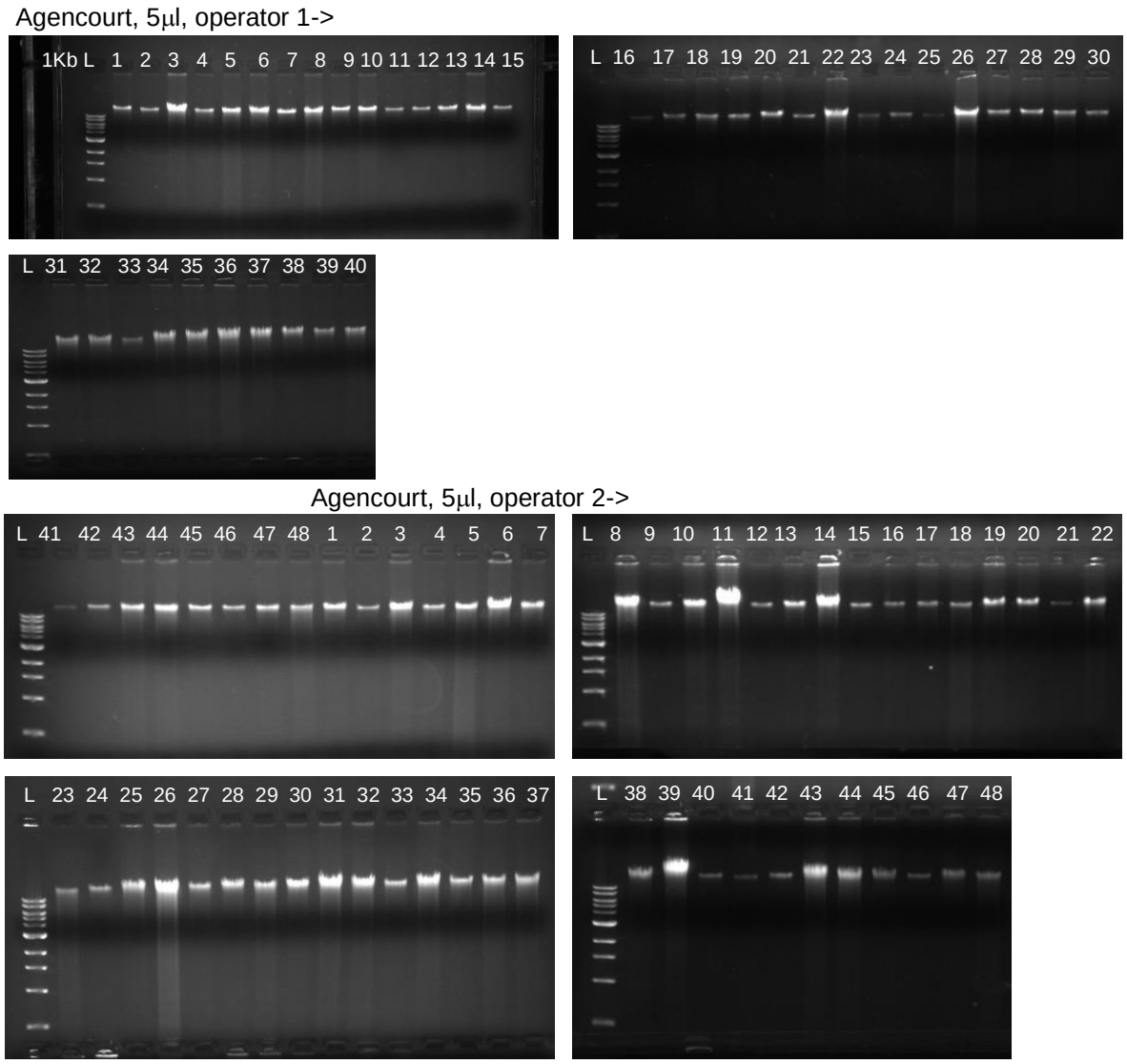
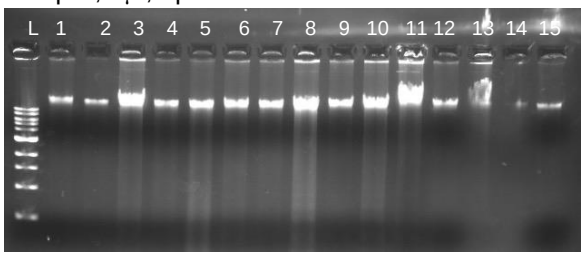
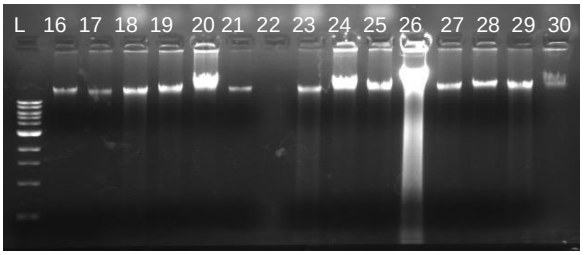


Figure S2: *Electrophoresis of each DNA sample on .8% Agarose gels*.



PrepIT, 5µl, operator 2->





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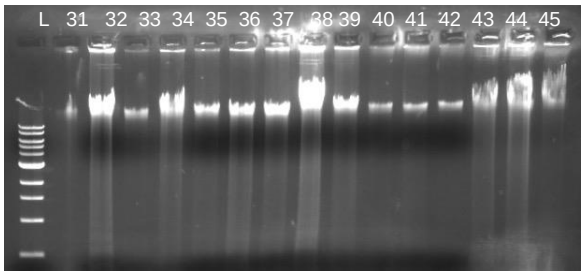

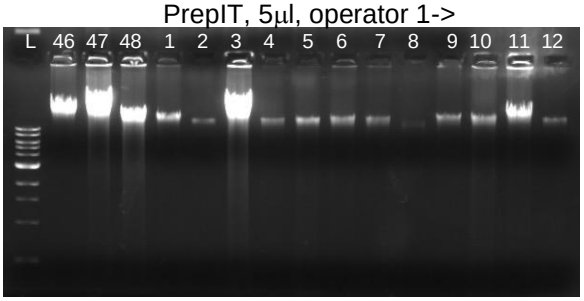

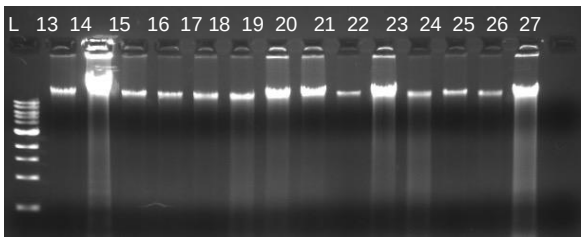

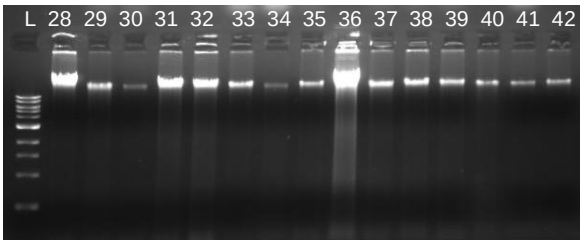

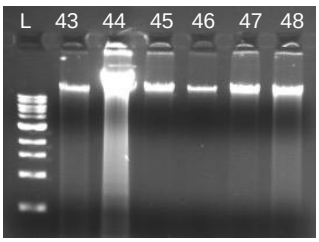

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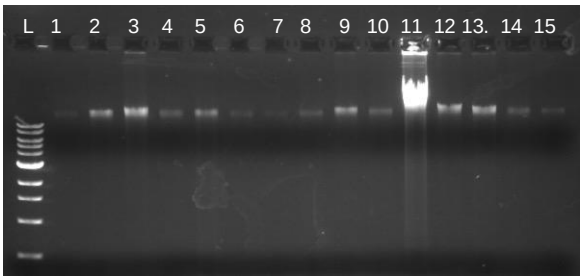
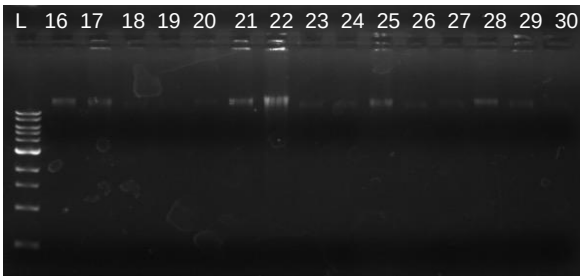
PrepIT, 100ng, operator 2->





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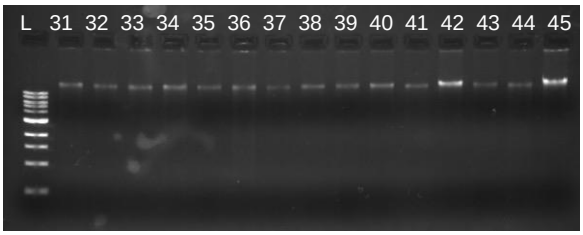

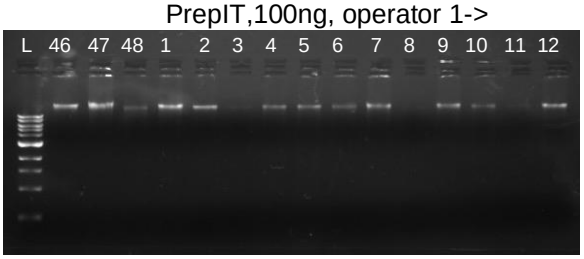

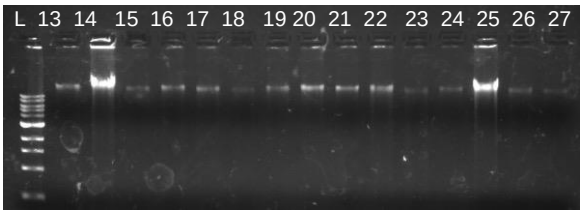

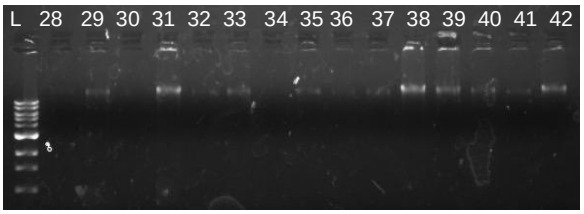

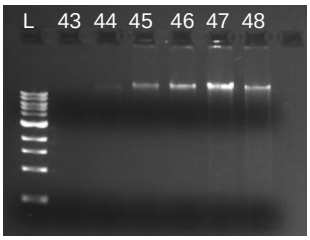

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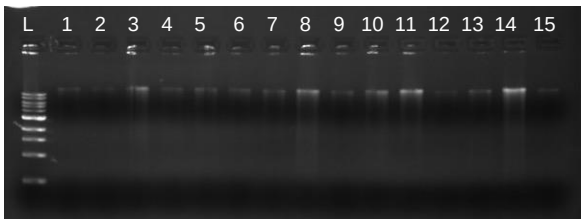
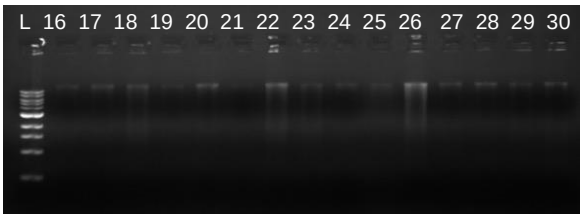
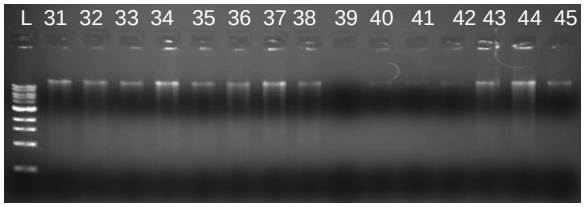
QIAmp, 5µl, operator 2->







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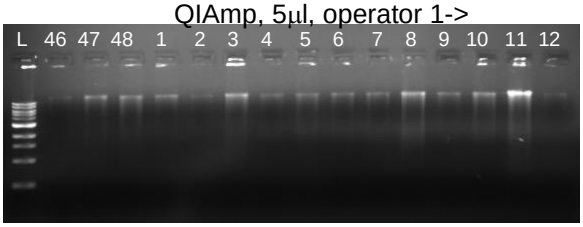

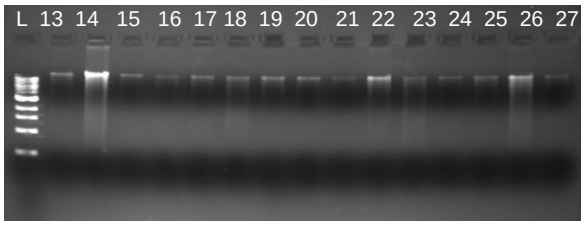

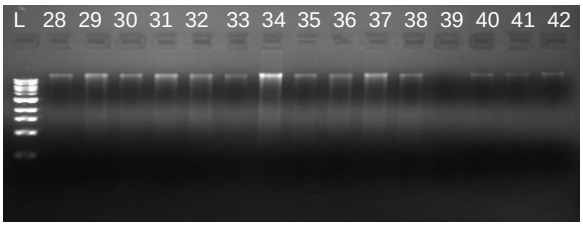

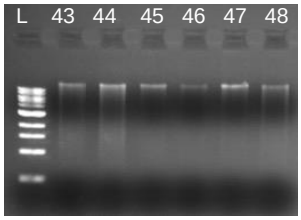

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Figure S3.

TRF analysis of 18 Agencourt-prepared saliva DNA extracts, carried out as described in Kimura *et.al*, 2010. Right panel is a phosphorimage of a TRF gel, with marker fragments (M) labeled on left and lanes numbered, 1-18. Left table describes corresponding lane id, sample id, calculated Telomere Restriction Fragment length in base pairs, and corresponding T/S qPCR values.

Figure S3.: *Example of TRF (Southern blot) with comparison to T/S values*

TRF vs T/S for Agencourt samples			
lane id	sample id	TRF bp	T/S Agencourt
1	26	3742	1.81
2	27	3643	0.95
3	28	4022	0.94
4	29	3502	1.36
5	30	4044	0.95
6	31	3959	1.53
7	32	3755	0.95
8	34	3759	1.03
9	35	3692	1.03
10	36	3588	1.26
11	37	3635	1.16
12	38	3779	1.11
13	39	4086	no DNA
14	43	3709	1.08
15	44	3804	1.50
16	45	3831	0.86
17	47	3926	1.09
18	48	3653	1.21

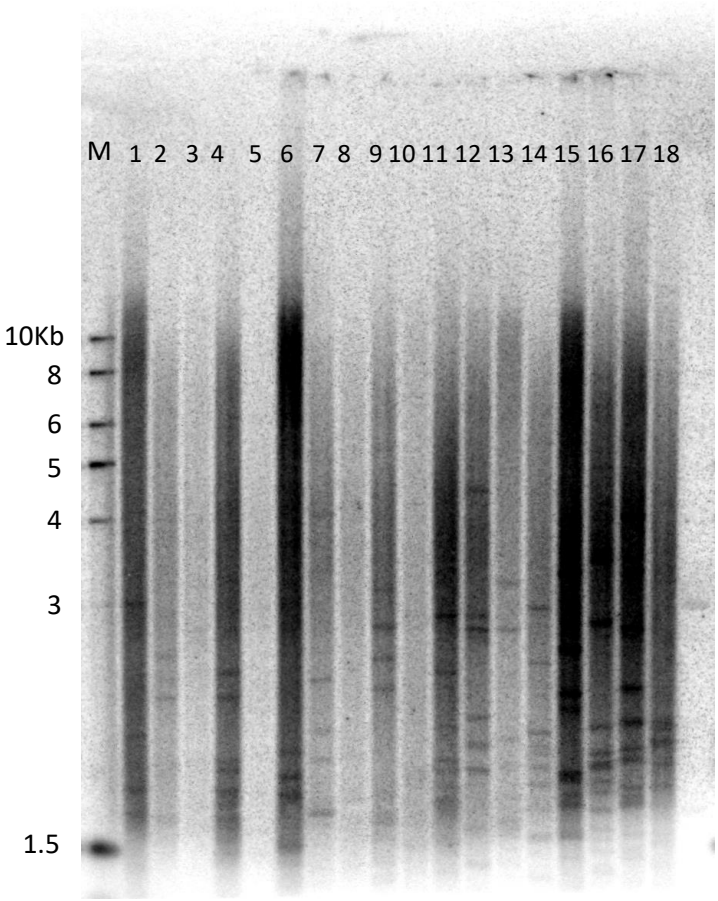

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Table S1: *Saliva sample demographic data*

Blackburn ID	rid	role	related to	sal_date	age	sex	race
1	**28702**	child	**5**	2/5/16	13	Male	White
2	21802	child		1/23/16	16	Female	White
3	16601	mother		11/20/15	39	Female	White
4	**19201**	mother	**33**	2/23/16	38	Female	White
5	**28701**	mother	**1**	2/5/16	37	Female	White
6	20001	mother		12/4/15	38	Female	White
7	17901	mother		1/16/16	38	Female	White
8	27401	mother		2/5/16	39	Female	White
9	14901	mother		2/29/16	38	Female	White
10	1101	mother		1/9/16	38	Female	White
11	13701	mother		2/2/16	37	Female	Black
12	**4203**	child	**26**	11/30/15	9	Male	Multiracial
13	**3201**	mother	**41**	2/6/16	39	Female	White
14	13601	mother		11/30/15	39	Female	Black
15	**16302**	child	**20**	1/28/16	14	Male	White
16	5001	mother		1/23/16	38	Female	White
17	44001	mother		1/30/16	38	Female	Black
18	27901	mother		2/19/16	39	Female	White
19	**6302**	child	**25**	12/12/15	13	Female	Black
20	**16301**	mother	**15**	1/28/16	37	Female	White
21	21801	mother		1/23/16	39	Female	White
22	32001	mother		3/11/16	38	Female	White
23	35501	mother		2/27/16	38	Female	Black
24	5101	mother		1/21/16	39	Female	White
25	**6301**	mother	**19**	12/12/15	39	Female	Black
26	**4201**	mother	**12**	11/30/15	39	Female	White
27	18601	mother		2/16/16	39	Female	White
28	24701	mother		3/3/16	38	Female	White
29	24002	child		2/26/16	15	Female	White
30	16101	mother		3/12/16	39	Female	White
31	43602	child		4/1/16	13	Female	Multiracial
32	15701	mother		3/12/16	39	Female	White
33	**19203**	child	**4**	2/23/16	12	Female	Multiracial
34	39501	mother		2/27/16	38	Female	White
35	**24301**	mother	**39**	3/16/16	40	Female	White
36	6601	mother		3/7/16	38	Female	Black
37	29001	mother		2/26/16	41	Female	White
38	200201	mother		3/12/16	37	Female	White
39	**24303**	child	**35**	3/16/16	7	Female	NA
40	36401	mother		4/5/16	38	Female	White
41	**3203**	child	**13**	2/6/16	14	Female	White
42	24601	mother		3/7/16	39	Female	White
43	31601	mother		2/29/16	38	Female	White
44	24501	mother		3/11/16	39	Female	White
45	42601	mother		3/16/16	38	Female	White
46	31401	mother		2/13/16	38	Female	White
47	4601	mother		3/17/16	39	Female	Black
48	26001	mother		3/11/16	37	Female	White

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Table S2: *Complete list of DNA measurements, arranged by method.*

NanoDrop	Agencourt Operator 1			Agencourt Operator 2		
Sample ID	[DNA] ng//µl	260/280	260/230	[DNA]	A260/280	260/230
1	21.2	1.93	2.38	29.3	1.93	2.34
2	12.9	1.97	2.29	13	1.97	1.74
3	51.8	1.94	2.29	53.6	1.95	2.15
4	19.4	1.97	2.45	22.8	1.94	2.41
5	37	1.94	2.46	52.4	1.94	2.42
6	36.8	1.95	2.39	120	1.87	1.56
7	24.3	1.9	2.2	39.6	1.92	2.22
8	54.3	1.94	2.39	122	1.93	2.34
9	24.1	1.94	2.52	25.2	1.92	2.29
10	36.5	1.92	2.16	70.9	1.9	1.94
11	11.2	2.01	2.87	132.5	1.92	2.3
12	9.8	1.97	3.28	14.5	1.94	2.17
13	19.6	2.01	2.84	34.6	1.94	2.34
14	39.9	1.93	2.07	100.6	1.93	2.09
15	14.3	2.09	2.97	22.7	1.94	2.28
16	8.2	1.97	3.57	21.8	1.92	2.33
17	15.7	2.01	2.77	32.8	1.9	1.84
18	29.9	1.97	2.48	48.1	1.94	2.26
19	23.9	2.15	2.65	54.3	1.93	2.27
20	26.8	2.03	2.42	40.5	1.97	2.39
21	8.7	2.12	3.06	11.9	1.92	2.14
22	47.6	1.96	2.3	62.2	1.92	2.29
23	12	2.01	2.59	39.5	1.94	2.36
24	10.4	2.05	3.19	21.6	1.96	2.42
25	4	2.23	8.61	53.9	1.91	2.01
26	82.6	1.92	2.11	148.8	1.89	2.05
27	20.7	1.94	2.49	31.5	1.91	2.28
28	20.6	2.17	2.33	35.7	1.99	2.42
29	27.7	1.98	2.04	43.3	1.92	2.22
30	21.3	1.92	2.06	48.3	1.98	2.21
31	39.9	1.94	2.34	77.8	1.95	2.15
32	41.9	1.94	2.09	76.3	1.91	2.08
33	11.7	2.02	2.24	33.3	1.96	2.33
34	42.2	1.97	2.28	73.7	1.93	2.02
35	23.5	2.2	2.75	40.9	1.93	2.26
36	45.5	1.94	2.41	66	1.9	2.35
37	47.9	1.98	2.39	65.5	1.94	2.32
38	34.2	1.94	2.31	58.1	1.94	2.22
39	0	0	0	171.6	1.85	1.77

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40	13.8	1.98	1.82	20.2	1.9	2.48
41	10.5	2.09	2.17	14.9	1.99	1.9
42	42.4	1.97	2.2	16.9	2.03	2.16
43	49.7	1.94	2.06	102.5	1.94	2.22
44	61.2	1.94	2.02	87.7	1.91	1.99
45	28	1.99	2.59	41.6	1.95	2.35
46	12.9	2.01	2.96	18.3	1.89	2.1
47	29.5	1.99	2.24	44.2	1.91	2.25
48	36.9	1.95	2.36	55.9	1.92	2.16
NanoDrop	**PrepIT operator 1**			**PrepIT operator 2**		
Sample ID	**[DNA]**	**260/280**	**260/230**	**[DNA]**	**260/280**	**260/230**
1	64.3	1.97	1.33	279	1.85	1.41
2	23.6	1.96	1.22	20.2	2.11	1.04
3	630.4	1.93	1.65	225.4	1.99	1.5
4	80.2	1.97	1.48	80.8	2.03	1.44
5	80.4	1.91	1.56	86.8	1.94	1.41
6	109.3	1.94	1.17	293.9	1.81	1.01
7	113.9	1.93	1.62	518.5	1.79	1.27
8	104.1	2.04	1.72	191	1.86	1.56
9	71.3	1.9	1.22	72.5	1.95	1.11
10	236.6	1.95	1.39	263.4	1.92	1.23
11	540.6	1.84	1.73	43.2	1.91	0.98
12	23.9	1.95	1.58	23.9	2.1	1.12
13	52.9	1.82	0.91	26.7	1.85	0.54
14	123.5	1.92	1.38	540.9	1.79	1.3
15	88.2	1.97	1.45	67.6	2.02	1.14
16	37.5	1.92	1.37	33.9	2.02	1.18
17	62.3	1.85	1.09	34.8	1.94	0.78
18	188.8	1.98	1.64	191.9	2	1.58
19	179.7	1.99	1.62	359.9	1.9	1.51
20	96.9	1.94	1.32	296.2	1.88	1.51
21	21.4	1.88	1.02	14.4	2.2	0.76
22	154.8	1.94	1.68	139.4	1.94	1.53
23	97	1.9	1.1	97.8	1.9	1
24	88.6	2	1.48	69.3	2.1	1.3
25	32.7	1.78	0.67	67.1	1.77	0.73
26	471.8	1.87	1.33	424.4	1.89	1.28
27	129.3	1.99	1.51	138.6	1.97	1.35
28	263.3	1.82	1.39	69.5	1.92	1.39
29	97.9	1.96	1.49	93.7	1.93	1.56
30	973.6	1.89	1.64	307.3	1.95	1.62
31	122.9	1.94	1.63	79.5	1.97	1.58

32	475	1.84	1.4	238.6	1.94	1.46
33	70.8	1.87	1.24	81.6	1.83	1.08
34	914.5	1.86	1.64	108.4	1.89	1.27
35	108.8	2.01	1.65	103.5	1.96	1.56
36	477.7	1.83	1.26	142.8	1.88	0.9
37	184.6	2.02	1.85	214.8	1.98	1.75
38	165.7	1.9	1.29	129.8	1.9	1.22
39	661.2	1.82	1.58	117.9	1.96	1.31
40	44.6	1.94	1.2	45.7	1.9	1.07
41	70	1.78	0.86	71.3	1.75	0.79
42	25	1.81	0.81	22.1	1.85	0.8
43	672.7	1.98	1.67	379	2	1.62
44	188.7	2.02	1.65	235	1.85	1.25
45	102.7	1.91	1.41	52.1	1.94	1.36
46	27.4	1.93	1.34	19.1	1.85	1.06
47	79	1.89	1.24	62	1.88	1.14
48	174.9	1.95	1.44	164.5	1.94	1.33

NanoDrop	**QIAamp operator 1**			**QIAamp operator 2**		
Sample ID	**[DNA]**	**260/280**	**260/230**	**[DNA]**	**260/280**	**260/230**
1	10.3	2.3	0.05	7.8	2.26	3.31
2	5.6	2	-2.06	5.7	2.2	2.2
3	21.5	1.93	5.57	30	1.97	1.76
4	9	2.03	5.9	11.2	2.18	1.36
5	18.7	1.92	5.45	16.5	2	2.36
6	10.3	2.07	82.28	9.8	2.13	1.27
7	14.8	1.87	3.12	12.5	1.98	14.28
8	33.7	1.97	3	37.6	2.01	0.89
9	8.1	2.21	2.79	8.7	2.03	4.23
10	21	1.97	6.45	23	1.93	2.56
11	52.5	1.95	3.19	31.6	1.94	2.31
12	4.9	2.2	-1.88	5.6	2.31	1.27
13	12.5	1.92	3.84	13.3	2.04	1.54
14	57.4	1.92	2.27	49.6	1.96	2.31
15	7.2	2.19	-1.22	8.6	2.22	2.38
16	5.4	2.16	-1.14	8.3	2.19	9.21
17	10.8	2.09	1.04	11.2	2.06	-191.26
18	15.4	2	23.09	20.2	1.97	2.39
19	11.8	2.06	-36.01	13.9	2.09	0.51
20	10.5	2.12	-7.68	13.3	2.02	1.92
21	3.8	2.87	34.47	3.8	2.71	0.93
22	23	1.82	3.48	29.3	1.99	2.64
23	16.3	2.08	3.22	14.9	1.98	2.17

24	9.6	1.95	-22.64	6.2	2.13	-1.36
25	11	2.05	3.08	10.4	2.03	6.12
26	46.9	1.96	2.96	45	1.92	2.7
27	8.8	2.11	8.79	11.3	1.88	1.92
28	8.4	2.23	2.85	10	1.97	2.14
29	21.4	1.97	3.13	14.6	1.95	2.49
30	13.9	2.01	1.9	18.7	1.91	1.69
31	18	1.98	2.58	23	1.94	1.96
32	17.5	1.98	2.9	24.1	1.91	2.11
33	8.1	2.18	19.51	11.6	2.01	2.37
34	35.2	1.99	2.3	21	1.97	2.05
35	15.5	2.02	1.59	11.5	1.98	1.85
36	17.3	2.03	4.06	19	1.93	2.87
37	22	1.99	2.53	24.2	1.91	3.26
38	13	2	2.26	15.8	1.93	11.64
39	0	0	0	0	0	0
40	5.9	2.09	1.64	6.2	1.83	-8.76
41	7.3	2.06	2.47	7.1	1.73	33.77
42	5	2.43	1.9	6.4	1.73	2.93
43	23.7	1.97	2.84	29	1.9	2.69
44	32.8	1.9	2.1	41.2	1.9	1.82
45	11.1	2.05	2.88	13	1.81	2.62
46	4.9	2.03	11.83	5.4	2.11	-3.68
47	15.4	2.04	2.46	13.2	1.97	3.49
48	17.5	2.02	3.49	20.2	1.93	0.9

Picogreen	**Agencourt**		**PrepIT**		**QIAmp**	
	Operator 1	**Operator 2**	**Operator 1**	**Operator 2**	**Operator 1**	**Operator 2**
Sample ID	**[DNA]**	**[DNA]**	**[DNA]**	**[DNA]**	**[DNA]**	**[DNA]**
1	77.6	98.9	55.72	62.67	23.3	23.8
2	42.1	41.5	35.88	40.1	8.9	11.7
3	168.7	148.7	90.04	795.77	52.2	77.6
4	66.1	58.5	75.33	86.23	16.1	24.0
5	118.8	145.0	122.79	344.19	31.7	40.0
6	130.5	193.4	89.87	494.59	24.5	24.6
7	69.0	126.1	324.05	200.23	23.7	25.9
8	186.0	383.4	31.76	235.78	89.8	108.0
9	92.4	74.2	99.72	104.12	19.1	20.0
10	113.7	208.6	69.08	244.16	51.2	67.6
11	38.2	213.48	141.88	132.2	140.2	91.6
12	38.3	44.6	44.22	55.39	63.9	13.2
13	64.1	121.0	99.37	46.94	18.8	29.8
14	106.7	329.1	119.46	349.04	163.6	146.6
15	49.6	73.0	73.27	40.37	14.1	21.9

16	18.0	66.5	54.05	64.69	10.5	22.4
17	63.7	99.2	90.55	46.79	23.1	23.1
18	120.2	148.6	145.21	133.08	38.5	50.8
19	96.0	176.1	167.6	944.79	25.6	19.3
20	85.5	148.6	124.8	127.37	22.0	28.0
21	30.5	37.7	32.33	99.16	7.0	16.7
22	68.5	197.4	270.68	203.5	53.5	77.2
23	37.3	102.5	101.37	113.51	33.2	16.5
24	33.5	69.7	41.97	36.26	10.8	16.4
25	12.5	139.0	31.49	120.7	26.8	0.0
26	211.5	192.7	993.85	444.94	137.2	122.5
27	68.1	90.2	62	80.26	18.4	20.2
28	55.0	119.6	36.92	101.14	17.8	15.9
29	75.1	117.3	185.9	125.83	44.0	24.5
30	15.3	137.1	84.12	70.48	20.1	34.4
31	66.3	277.2	201.01	98.35	33.4	54.3
32	117.8	218.3	104.72	216.88	32.7	41.6
33	34.9	96.0	76.53	108.74	19.2	22.0
34	151.4	214.5	44.25	119.96	85.4	47.7
35	84.3	116.7	56.86	94.89	23.8	22.4
36	147.2	182.2	74.88	185.28	32.9	40.1
37	153.9	197.6	100.95	189.35	33.9	47.9
38	68.4	180.3	85.66	113.53	24.7	29.4
39	0	108	90.53	935.35	0	0
40	49.4	59.5	42.99	48.23	11.5	10.1
41	18.0	37.3	38.27	44.82	12.6	7.3
42	40.9	53.2	39.32	51.03	12.1	9.2
43	120.1	346.2	111.46	511.75	58.8	70.2
44	165.4	236.8	102.73	116.68	68.3	100.9
45	90.4	145.4	386.49	51.2	22.6	29.7
46	45.0	57.7	47.41	115.56	9.5	7.9
47	105.3	140.5	104.88	87.91	33.4	22.9
48	120.9	156.1	156.33	166.78	38.2	47.1

RNAseP	**Agencourt**	
	Operator 1	**Operator 2**
Sample ID	**[DNA]**	**[DNA]**
1	23.5	
2	12.4	13.5
3	61.6	55.7
4	18.9	21.0
5	40.5	59.1
6	42.9	65.0
7	28.5	44.9

8	56.4	61.5
9	26.7	27.0
10	38.7	79.0
11	13.5	177.4
12	12.1	14.6
13	23.3	39.7
14	44.9	124.8
15	18.4	23.5
16	9.3	15.9
17	14.6	25.7
18	28.3	39.6
19	27.7	62.7
20	37.9	53.4
21	10.8	13.0
22	52.1	74.6
23	11.1	35.5
24	10.1	18.3
25	4.3	56.8
26	74.6	148.5
27	19.3	31.6
28	20.9	47.2
29	26.1	45.7
30	19.6	52.3
31	41.1	88.9
32	40.5	80.8
33	11.9	38.9
34	50.3	94.5
35	24.3	41.8
36	39.5	56.9
37	52.1	76.5
38	41.6	63.2
39	0	184.1
40	14.0	19.9
41	6.9	13.5
42	14.9	20.3
43	46.6	111.3
44	63.5	100.5
45	32.1	50.7
46	18.3	22.2
47	40.3	53.0
48	37.6	56.2

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Table S3: *Telomere Length (T/S average) for each DNA extract*

Sample ID	Agencourt, T/S		PrepIT, T/S		QIAamp, T/S	
	Operator 1	Operator 2	operator 1	operator 2	operator 1	operator 2
1	1.26	1.25	1.38	1.45	1.84	1.86
2	1.17	1.24	1.24	1.29	1.56	1.63
3	1.22	1.22	1.26	1.23	1.49	1.61
4	1.54	1.52	1.66	1.64	1.98	1.93
5	1.36	1.54	2.03	1.76	1.91	1.88
6	1.10	1.06	1.30	1.46	1.43	1.63
7	1.11	1.15	1.19	1.33	1.69	1.80
8	1.13	1.12	2.21	1.23	1.45	1.46
9	1.17	1.19	1.32	1.26	1.45	1.61
10	1.00	0.99	1.15	0.94	1.35	1.38
11	1.32	1.19	1.59	1.16	1.33	1.41
12	1.22	1.40	1.40	1.37	2.07	1.97
13	0.87	0.95	1.10	0.99	1.22	1.34
14	1.46	1.46	1.03	1.60	1.60	1.83
15	1.38	1.42	1.63	2.24	2.28	2.30
16	1.14	1.01	1.33	1.23	1.47	1.71
17	1.00	0.99	1.16	1.29	1.31	1.42
18	1.47	1.41	1.66	1.65	1.74	1.69
19	1.50	1.42	1.54	1.84	2.15	2.31
20	1.13	1.14	1.22	1.21	1.44	1.60
21	0.99	1.03	1.04	1.15	1.40	1.47
22	1.08	1.03	1.23	1.00	1.26	1.48
23	1.40	1.33	1.76	1.55	1.40	1.41
24	0.75	0.76	0.88	0.90	1.09	1.10
25	1.07	1.22	1.25	1.27	1.57	1.68
26	1.81	1.86	2.19	2.12	2.04	2.12
27	0.95	1.03	1.10	0.99	1.41	1.20
28	0.94	0.92	1.22	1.02	1.23	1.11
29	1.36	1.11	1.30	1.30	1.47	1.53
30	0.95	0.83	1.02	0.86	1.28	1.32
31	1.53	1.49	1.70	1.81	2.07	2.13
32	0.95	0.88	1.24	1.05	1.22	1.21
33	2.04	1.98	2.44	2.07	3.53	2.91
34	1.03	1.10	1.65	1.34	1.43	1.50
35	1.03	1.00	1.13	1.11	1.56	1.37
36	1.26	1.30	1.49	1.43	1.54	1.63
37	1.16	1.10	1.28	1.25	1.64	1.49
38	1.11	1.04	1.00	1.15	1.56	1.58
39	no DNA	1.37	1.44	1.57	no DNA	no DNA
40	1.21	1.08	1.28	1.13	1.54	1.56
41	1.39	1.37	1.43	1.36	1.91	1.75
42	1.05	0.98	1.15	1.00	1.27	1.32
43	1.08	0.98	1.61	1.07	1.44	1.43
44	1.50	1.48	1.94	1.89	2.04	2.06
45	0.86	0.86	0.93	0.86	1.43	1.32
46	0.92	0.92	1.17	1.10	1.28	1.46
47	1.09	no DNA	1.07	1.08	1.35	1.53
48	1.21	low DNA	1.37	1.31	1.48	1.34

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