What the Taq? The Influence of Different Hi-Fidelity Taq Polymerase on 16S rRNA Sequencing

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Supplemental

Table S1: ANOVA Results of Number of OTUs Differences between HiFi Taq in Fecal Samples

DF	Sum Squares	Mean Squares	F value	P-value	BH	Cycle	Sub-Sample Depth
4	3.66	0.91	1.25	3.5e-01	3.5e-01	20x	1000
4	6.90	1.73	2.84	6.1e-02	1.2e-01	25x	1000
3	4.67	1.56	2.55	1.0e-01	1.4e-01	30x	1000
4	13.01	3.25	16.35	2.4e-05	9.7e-05	35x	1000
4	5.15	1.29	4.57	1.2e-01	1.2e-01	20x	5000
4	8.11	2.03	4.98	1.3e-02	1.8e-02	25x	5000
3	10.36	3.45	25.24	1.8e-05	3.6e-05	30x	5000
4	14.38	3.59	81.00	1.6e-09	6.4e-09	35x	5000
2	2.85	1.43	3.73	1.5e-01	1.5e-01	20x	10000
4	10.39	2.60	11.92	3.8e-04	5.1e-04	25x	10000
3	11.22	3.74	57.90	2.1e-07	4.2e-07	30x	10000
4	13.25	3.31	57.20	4.0e-08	1.6e-07	35x	10000
2	0.27	0.13	0.10	9.1e-01	9.1e-01	20x	15000
4	8.69	2.17	7.23	4.1e-03	5.5e-03	25x	15000
3	10.40	3.47	25.95	1.6e-05	3.1e-05	30x	15000
4	12.24	3.06	48.03	2.7e-07	1.1e-06	35x	15000
1	1.00	1.00	NA	NA	NA	20x	20000
4	9.84	2.46	12.50	4.5e-04	4.5e-04	25x	20000
3	10.65	3.55	31.67	5.5e-06	8.3e-06	30x	20000
3	11.61	3.87	119.82	3.3e-09	9.9e-09	35x	20000

Table S2: Tukey Post-Hoc Results of Number of OTUs Differences between HiFi Taq in Fecal Samples

Difference	Lower	Upper	P Adjusted	Comparison	Cycle	Sub-Sample Depth
299.50	88.49	510.51	5.7e-03	PL-ACC	35x	20000
192.50	53.41	331.59	5.8e-03	PL-ACC	35x	10000
251.75	52.99	450.51	1.2e-02	PL-ACC	35x	15000
119.92	14.60	225.23	2.3e-02	PL-K	35x	5000
155.50	16.41	294.59	2.6e-02	PL-PHU	35x	10000
108.00	10.50	205.50	2.7e-02	PL-ACC	35x	5000
235.75	24.74	446.76	2.7e-02	PL-PHU	35x	20000
187.00	16.65	357.35	2.9e-02	PL-K	35x	10000

Table S3: ANOVA Results of Number of OTUs Differences between HiFi Taq in Mock Samples

DF	Sum Squares	Mean Squares	F value	P-value	BH	Cycle	Sub-Sample Depth
2	364.56	182.28	15.82	1.7e-03	2.2e-03	20x	1000
4	3478.53	869.63	75.15	2.7e-09	1.1e-08	25x	1000
4	2206.58	551.64	10.28	1.8e-05	3.6e-05	30x	1000
4	1971.92	492.98	2.31	1.0e-01	1.0e-01	35x	1000
3	267.19	89.06	9.44	1.8e-03	2.0e-03	25x	5000
3	7731.36	2577.12	80.88	1.1e-12	3.3e-12	30x	5000
3	13086.29	4362.10	8.67	2.0e-03	2.0e-03	35x	5000
3	400.50	133.50	7.14	5.2e-03	5.2e-03	25x	10000
3	18644.56	6214.85	115.99	5.0e-14	1.5e-13	30x	10000
3	50519.50	16839.83	435.98	1.6e-12	2.5e-12	35x	10000

Table S4:

Table S5:

Table S6:

Table S7: