

Additional File 1.

C_t values for *P. falciparum* 3D7 DNA using 3 different sources of reagents

Table A. Invitrogen Platinum™ Taq with Green PCR buffer

qPCR assay template copy number	C_t values for 10^x pg of 3D7 DNA per qPCR					
	-3	-2	-1	0	1	2
<i>crt</i> [n=1]	<i>negative</i>	<i>negative</i>	37.9	35.8	32.0	28.2
<i>crt76K</i> [n=1]	<i>negative</i>	<i>negative</i>	<i>negative</i>	38.0	36.3	27.1
<i>ldh(a)</i> [n=1]	<i>negative</i>	<i>negative</i>	37.9	34.9	31.7	27.8
<i>18SrRNA(a)</i> [n=3]	<i>negative</i>	<i>negative</i>	39.2	33.3	29.9	26.5
<i>r364(a)</i> [n=14]	<i>negative</i>	<i>negative</i>	33.5	30.0	26.4	22.6
<i>cytb</i> [n=22]	<i>negative</i>	<i>negative</i>	32.9	28.8	25.4	21.8
<i>coxI</i> [n=22]	<i>negative</i>	36.4	33.1	29.6	25.8	22.4
<i>varATS</i> [n=29]	<i>negative</i>	37.2	33.9	30.3	26.9	23.4
<i>r364(b)</i> [n=56]	<i>negative</i>	<i>negative</i>	34.9	30.9	27.4	24.0

Table B. New England Biolabs Luna® Universal Probe qPCR

qPCR assay template copy number	C_t values for 10^x pg of 3D7 DNA per qPCR					
	-3	-2	-1	0	1	2
<i>crt</i> [n=1]	<i>negative</i>	<i>negative</i>	37.0	32.9	29.5	25.9
<i>crt76K</i> [n=1]	<i>negative</i>	<i>negative</i>	<i>negative</i>	36.1	32.1	28.7
<i>ldh(a)</i> [n=1]	<i>negative</i>	<i>negative</i>	37.2	35.1	31.1	26.3
<i>18SrRNA(a)</i> [n=3]	<i>negative</i>	38.5	35.6	33.1	29.5	25.4
<i>r364(a)</i> [n=14]	<i>negative</i>	36.4	33.7	30.1	26.5	22.7
<i>cytb</i> [n=22]	<i>negative</i>	36.5	32.8	28.9	25.5	22.4
<i>coxI</i> [n=22]	<i>negative</i>	33.9	31.4	27.8	23.9	20.5
<i>varATS</i> [n=29]	<i>negative</i>	38.3	33.8	30.1	26.7	23.0
<i>r364(b)</i> [n=56]	<i>negative</i>	37.0	34.1	30.7	27.1	23.6

Table C. Quantabio PerfeCTa qPCR ToughMix™

qPCR assay template copy number	C _t values for 10 ^x pg of 3D7 DNA per qPCR					
	-3	-2	-1	0	1	2
<i>crt</i> [n=1]	<i>negative</i>	<i>negative</i>	<i>negative</i>	<i>negative</i>	<i>negative</i>	<i>negative</i>
<i>crf76K</i> [n=1]	<i>negative</i>	38.2	35.6	34.4	30.8	27.8
<i>ldh(a)</i> [n=1]	<i>negative</i>	<i>negative</i>	38.8	36.0	32.5	29.4
<i>18SrRNA(a)</i> [n=3]	<i>negative</i>	<i>negative</i>	37.5	33.7	30.4	27.4
<i>r364(a)</i> [n=14]	<i>negative</i>	<i>negative</i>	37.7	33.4	29.8	25.7
<i>cytb</i> [n=22]	<i>negative</i>	38.4	34.5	30.4	27.1	23.6
<i>coxI</i> [n=22]	<i>negative</i>	38.8	34.4	30.3	26.9	24.4
<i>varATS</i> [n=29]	<i>negative</i>	37.1	34.5	31.3	27.6	23.9
<i>r364(b)</i> [n=56]	<i>negative</i>	<i>negative</i>	36.8	32.9	29.5	26.3

These tables indicate that C_t values were fundamentally similar for 9 qPCR assays with template copy numbers from 1 to 56 using reagents from 3 different manufacturers. The *crt* assay, which yielded false-negative qPCR results with Quantabio reagents, was an exception to that generalization.