

Table S1: Parasitaemia of each parasite culture treated with anti-malarial drugs

	RBC%	ART	AV	CQ	MQ	PYR	DMSO
24 h	RNG	1.493	1.588	1.134	1.317	0.652	0.647
	TRPZ	0.228	0.205	0.172	0.554	1.277	0.656
	SCHZ	0.010	0.010	0.010	0.012	0.038	0.710
48 h	RNG	1.546	1.520	1.270	1.128	0.452	7.427
	TRPZ	0.261	0.295	0.142	0.663	1.321	1.296
	SCHZ	0.016	0.013	0.011	0.050	0.045	0.234

ART, artemisinin; AV, atovaquone; CQ, chloroquine; MQ, mefloquine; and PYR, pyrimethamine.
RNG, ring-form; TRPZ, trophozoite; and SCHZ, schizont.

Table S2: Growth inhibition rate of parasites treated with anti-malarial drugs

3D7 strain	Concentration	Growth inhibition (%)	Mean	SD**	Concentration	Growth inhibition (%)	Mean	SD**	Concentration	Growth inhibition (%)	Mean	SD**	Concentration	Growth inhibition (%)	Mean	SD**	Concentration	Growth inhibition (%)	Mean	SD**											
ART*	5 μM	98.8	99.5	0.90	AV*	97.9	98.5	0.40	CQ*	108.3	106.2	2.8	MQ*	99.7	98.7	0.85	PYR*	98.2	97.8	0.31											
		99.0																			98.7	108.0	98.7	97.6	97.4	97.7					
		100.8																			98.8	102.3	97.6	97.6	97.4	97.7					
	1.5 μM	100.1	100.2	0.64		98.3	99.2	98.5		0.57	99.9	100.8		101.1	1.2	100.8		101.6	101.6	0.59	100.8	97.4	97.7	0.45							
		101.0																							98.4	101.5	99.7	97.4	97.1	97.0	
		99.5																							97.8	102.7	97.6	97.4	97.1	97.0	
	0.5 μM	98.5	99.3	0.80		96.4	97.0	97.2		0.84	101.6	103.6		102.3	0.94	0.5 μM		101.3	99.3	1.6	0.5 μM	97.1	97.7	0.28							
		100.4																							98.4	101.5	99.7	97.4	97.1	97.0	
		99.1																							98.5	100.9	96.7	97.4	97.1	97.0	
	0.15 μM	52.6	49.4	2.8		99.9	99.9	99.0		0.65	100.1	100.1		100.3	0.40	0.15 μM		97.8	97.0	0.54	0.15 μM	90.2	90.8	1.7							
		45.9																							98.6	100.0	97.8	97.6	97.1	97.0	
		49.8																							86.8	99.1	16.9	97.6	97.1	97.0	
0.05 μM	0.62	4.1	4.5	96.2	96.2	92.7	4.2	99.1	99.1	99.0	0.19	0.15 μM	14.9	18.1	3.2	0.05 μM	73.8	71.3	72.4	1.0											
	1.2																				95.0	99.0	22.5	71.3	71.3	71.3					
	10.5																				22.4	29.4	7.0	72.2	72.2	72.2					
0.015 μM	-2.5	0.13	2.5	22.7	22.7	19.6	4.2	0.075 μM	19.1	23.8	4.2	0.1 μM	10.5	6.8	3.1	0.015 μM	14.4	8.2	10.6	2.7											
	3.4																				13.7	7.9	23.0	2.8	9.1	9.1					
	-0.49																				7.9	6.4	-0.9	2.8	9.1	9.1					
0.005 μM	5.0	0.94	3.0	5.7	5.7	6.2	1.3	0.005 μM	6.4	4.3	3.7	0.05 μM	-1.3	-0.87	0.9	0.005 μM	-4.5	5.1	-0.19	4.0											
	-0.32																				4.9	4.4	0.3	0.3	-1.1	-1.1					
	-1.9																				-4.5	4.4	0.3	0.3	-1.1	-1.1					
0.0015 μM	-1.0	-0.64	0.31	4.4	4.4	0.53	3.7	0.0015 μM	1.1	2.2	2.1	0.015 μM	1.8	0.70	0.8	0.0015 μM	-2.5	-4.4	-2.0	2.1											
	-0.25																				1.7	1.1	-2.1	0.3	0.8	0.8					
	-0.67																				1.7	1.1	-2.2	0.3	0.8	0.8					
W2 strain	5 μM	99.9	100.2	0.94	AV*	98.7	98.7	0.55	CQ*	109.3	107.6	2.3	MQ*	97.9	98.9	0.89	PYR*	14.8	16.7	14.3	2.3										
		101.4																				99.8	104.4	98.6	98.6	16.7	16.7				
		99.2																				99.8	109.2	98.6	100.1	11.3	11.3				
	1.5 μM	100.2	100.4	0.15		100.0	100.0	99.2		0.93	1.5 μM	23.7		23.7	1.3	1.5 μM		101.0	100.8	0.40	1.5 μM	6.2	3.5	2.0							
		100.4																							97.9	22.2	101.1	100.2	1.6	1.6	
		100.6																							100.3	7.0	101.1	100.2	1.6	1.6	
	0.5 μM	100.1	100.5	0.42		97.8	97.8	99.2		1.0	0.5 μM	5.3		2.7	4.9	0.5 μM		100.6	100.8	0.17	0.5 μM	-0.5	-0.9	-1.6	1.3						
		100.3																								99.6	-4.2	100.7	100.6	-3.4	-3.4
		101.0																								99.1	4.4	100.7	100.6	-3.4	-3.4
	0.15 μM	100.4	100.6	0.23		97.8	97.8	98.5		0.54	0.15 μM	-9.9		-3.2	5.9	0.15 μM		99.6	100.0	0.42	0.15 μM	-4.2	-6.0	-5.7	1.2						
		100.9																								98.6	-4.0	99.6	99.8	-7.0	-7.0
		100.5																								98.2	4.7	99.6	99.8	-7.0	-7.0
0.05 μM	89.0	88.1	0.69	99.3	99.3	98.7	0.45	0.05 μM	0.9	1.8	2.1	0.05 μM	78.7	67.9	8.7	0.05 μM	-4.2	-4.4	-4.7	0.60											
	87.5																				98.6	-0.1	67.5	67.5	-5.5	-5.5					
	87.7																				88.3	3.1	67.5	67.5	-5.5	-5.5					
0.015 μM	17.5	14.0	3.0	77.6	77.6	83.3	4.4	0.015 μM	1.7	-1.0	4.8	0.015 μM	14.8	14.4	0.35	0.015 μM	2.7	-6.3	-4.7	5.5											
	10.0																				77.7	-1.4	14.6	14.6	-10.5	-10.5					
	14.4																				47.7	1.9	14.6	14.6	-10.5	-10.5					
0.005 μM	3.9	4.2	1.5	41.6	41.6	44.3	2.5	0.005 μM	-3.7	-1.1	2.3	0.005 μM	-2.6	-0.36	3.8	0.005 μM	3.7	0.13	4.1												
	2.6																			43.7	-1.6	-3.5	-3.5	-5.6	-5.6						
	6.2																			12.1	0.1	3.2	3.2	2.4	2.4						
0.0015 μM	-5.1	-0.074	3.6	17.3	17.3	14.7	2.1	0.0015 μM	0.6	-1.3	2.3	0.0015 μM	-1.5	0.32	2.1	0.0015 μM	0.3	0.33	1.7												
	3.4																			14.8	-4.6	-0.7	-0.7	-1.7	-1.7						
	1.5																			14.8	-4.6	-0.7	-0.7	-1.7	-1.7						

*: ART, artemisinin; AV, atovaquone; CQ, chloroquine; MQ, mefloquine; and PYR, pyrimethamine
 **: SD, standard deviation