

1 **Supplementary Information**

2

3 **Supplementary Table S1.** Gametocyte conversion rate (GCR) estimates (with 95%
 4 confidence intervals) and all numerical count data for two different methods with multiple
 5 experimental replicates applied to *P. falciparum* line 3D7/iGP under elevated GDV1
 6 expression with Shield-1 reagent (+SHLD) and control (-SHLD) conditions.

Replicate	Condition	Method 1			Method 2		
		Pfs16 +ve	DAPI +ve	Pfs16 GCR (95%CI)	D0 % Parasit.	D4 % Parasit.	D0D4 GCR (95% CI)
1	-SHLD	84	921	9.12 (7.4 - 11.2)	10.1 (101/999)	0.3 (26/8262)	3.4 (2.2 - 5.2)
	+SHLD	474	826	57.4 (54.0 - 60.7)	9.8 (98/999)	1.9 (117/6124)	20.9 (16.0 - 27.3)
2	-SHLD	104	1171	8.9 (7.4 - 10.7)	7.2 (67/932)	0.2 (15/8210)	2.7 (1.6 - 4.7)
	+SHLD	262	978	26.8 (24.1 - 29.7)	3.0 (29/970)	0.4 (49/13415)	12.5 (7.9 - 19.8)
3	-SHLD	41	926	4.4 (3.3 - 6.0)	5.6 (53/946)	0.1 (8/9305)	1.6 (2.8 - 3.4)
	+SHLD	150	595	25.2 (21.9 - 28.9)	4.4 (42/957)	0.4 (36/8625)	9.9 (6.3 - 15.4)
4	-SHLD	47	1043	4.5 (3.4 - 6.0)	5.0 (48/951)	0.4 (30/7278)	8.5 (5.4 - 13.5)
	+SHLD	267	701	38.1 (34.6 - 41.7)	4.4 (42/952)	1.0 (77/8070)	20.1 (14.0 - 28.8)

7

8 **Supplementary Table S2.** Estimates of gametocyte conversion rate (GCR) for 17 assays of
 9 the *P. falciparum* inducible 3D7/iGP_D9 line in which two different methods were
 10 performed in parallel for comparison (as detailed in Materials and Methods). Varying
 11 concentrations of Shield-1 (0.055 – 1.0 μ M, and none) were used for the assays. Data are
 12 plotted and analysed in Figure 2, showing an overall correlation between the methods, with
 13 Method 1 being generally more sensitive (and more precise with narrower confidence
 14 intervals as shown here).

Independent assays of <i>P. falciparum</i> line	Method 1 Pfs16 GCR (95%CI)	Method 2 D0/D4 GCR (95%CI)
iGP - SHLD	9.1 (7.4 - 11.2)	3.4 (2.2 - 5.3)
iGP +SHLD (1.0)	57.4 (54.0 - 60.7)	20.9 (16.0 - 27.31)
iGP - SHLD	8.9 (7.4 - 10.7)	2.7 (1.6 - 4.8)
iGP + SHLD (0.055)	14.2 (12.3 - 16.4)	4.0 (2.2 - 7.2)
iGP + SHLD (0.15)	16.8 (14.8 - 19.1)	2.4 (1.2 (4.9)
iGP + SHLD (0.5)	17.4 (15.3 - 19.7)	2.6 (1.3 - 5.2)
iGP +SHLD (1.0)	26.8 (24.1 - 30.0)	12.5 (8.0 - 19.8)
iGP - SHLD	4.4 (3.4 - 7.0)	1.6 (0.8 - 3.4)
iGP + SHLD (0.055)	20.5 (17.9 - 23.4)	7.2 (4.6 - 11.3)
iGP + SHLD (0.15)	16.1 (13.8 - 18.7)	4.7 (3.2 - 6.9)
iGP + SHLD (0.5)	26.5 (23.5 - 29.6)	5.1 (3.2 - 8.2)
iGP +SHLD (1.0)	25.2 (21.9 - 28.9)	9.9 (6.4 - 15.4)
iGP - SHLD	4.5 (3.4 - 6.9)	8.5 (5.4 - 13.5)
iGP + SHLD (0.055)	8.9 (7.2 - 11.2)	10.7 (7.3 - 15.7)
iGP + SHLD (0.15)	22.3 (19.2 - 25.8)	8.9 (6.1 - 12.8)
iGP + SHLD (0.5)	37.4 (34.0 - 41.0)	17.5 (12.9 - 23.8)
iGP +SHLD (1.0)	38.1 (34.6 - 41.7)	20.1 (14.0 - 28.8)

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16 **Supplementary Table S3.** Multiple biological replicate assays of gametocyte conversion
 17 rates (GCR) for each of 6 cultured *P. falciparum* clinical isolates from Navrongo, Ghana.

Isolate	Replicate	RBC Batch	Days in culture	% Parasitaemia Cycle before	% Parasitaemia post-invasion	Parasitaemia fold-change	Pfs16 +ve	DAPI +ve	GCR (95%CI)
289	1	12	92	1.4	4.4	3.1	38	961	4.0 (2.9 - 5.4)
	2	12	99	0.7	2.8	4.0	9	870	1.0 (0.6 - 2.0)
	3	12	99	0.9	2.9	3.2	23	740	3.1 (2.1 - 4.6)
	4	13	106	0.9	1.8	2.0	53	946	5.6 (4.3 - 7.3)
	5	13	106	0.8	2.1	2.6	28	971	2.9 (2.0 - 4.1)
	6	15	125	0.8	2.4	3.0	28	939	3.0 (2.1 - 4.3)
	<i>Mean (SD)</i>								3.3 (SD = 1.5)
272	1	12	83	1.0	1.0	1.0	48	951	5.0 (3.8 - 6.6)
	2	12	83	0.8	1.9	2.4	45	954	4.7 (3.5 - 6.3)
	3	13	91	1.2	1.5	1.2	34	965	3.5 (2.5 - 4.9)
	4	13	91	0.6	1.2	2.0	26	973	2.7 (1.8 - 3.9)
	5	15	110	0.6	6.3	10.5	69	999	6.9 (5.5 - 8.7)
	6	15	110	0.6	5.5	9.2	51	880	5.8 (4.4 - 7.5)
	<i>Mean (SD)</i>								4.8 (SD = 1.5)
292	1	1	67	0.8	0.8	1	66	677	9.7 (7.7 - 12.2)
	2	12	62	0.9	1.3	1.4	34	965	3.5 (2.5 - 4.9)
	3	12	62	0.7	1.4	2.0	58	882	6.6 (5.1 - 8.4)
	4	13	69	2.3	3.8	1.6	63	936	6.7 (5.3 - 8.5)
	5	13	69	1.1	2.1	1.9	46	953	4.8 (3.6 - 6.4)
	6	15	88	0.5	1.3	2.6	49	939	5.2 (4.0 - 6.8)
	7	15	88	0.8	4.0	5	19	564	3.4 (2.2 - 5.2)
	<i>Mean (SD)</i>								5.7 (SD = 2.2)
293	1	1	67	1.7	1.7	1	109	1841	5.9 (4.9 - 7.1)
	2	12	55	0.8	3.0	3.7	120	878	13.7 (11.6 - 16.1)
	3	13	69	0.9	2.1	2.3	118	881	13.4 (11.3 - 15.8)
	4	13	69	1.3	2.3	1.8	118	883	13.4 (11.3 - 15.8)
	5	13	76	1.0	2.7	2.7	39	962	4.1 (3.0 - 5.5)
	6	13	76	1.0	1.7	1.7	41	617	6.6 (4.9 - 8.9)
	<i>Mean (SD)</i>								9.5 (SD = 4.4)
296	1	12	48	1.5	2.8	1.9	116	883	13.1 (11.1 - 15.5)
	2	12	55	1.0	2.5	2.5	31	968	3.2 (2.3 - 4.5)
	3	12	55	0.6	1.3	2.2	65	632	10.3 (8.2 - 12.9)
	4	13	62	1.2	5.4	4.5	94	905	10.4 (8.6 - 12.5)
	5	13	62	1.1	5.0	4.5	84	915	9.2 (7.5 - 11.2)
	6	13	69	1.0	2.6	2.6	93	906	10.3 (8.5 - 12.4)
	7	13	69	1.0	2.9	2.9	118	887	13.3 (11.2 - 15.7)
	<i>Mean (SD)</i>								10.0 (SD = 3.4)
280	1	1	55	1.0	1.0	1.0	156	1406	11.1 (9.6 - 12.9)
	2	2	64	2.2	1.5	0.7	103	360	28.6 (24.2 - 33.5)
	3	2	64	1.5	2.4	1.6	209	794	26.3 (23.5 - 29.6)
	4	3	71	0.7	4.0	5.7	131	907	14.4 (12.3 - 16.9)
	5	3	71	1.0	5.0	5.0	109	787	13.9 (11.6 - 16.4)
	6	3	78	1.4	4.2	3.0	27	973	2.8 (1.9 - 4.0)
	7	3	78	0.6	2.1	3.5	49	884	5.5 (4.2 - 7.3)
	8	4	85	1.4	3.5	2.5	12	998	1.2 (0.7 - 2.1)
	9	4	85	0.6	5.3	8.8	56	943	5.9 (4.6 - 7.6)
	<i>Mean (SD)</i>								12.2 (SD = 9.8)

18 The table shows exact counts and 95% confidence intervals of the GCR estimates using
 19 Method 1 (with Pfs16 staining) as plotted and analysed in Figure 3 and Table 1. For each

20 replicate assay the number of days the isolate had been in culture after isolation from the
21 patient is shown, as well as the parasitaemia in the day of the setup of the experiment (cycle
22 before testing for proportions of gametocytes), the parasitaemia in the cycle during which
23 the parasites were tested for expression of Pfs16, and the fold change in parasitaemia
24 between these successive cycles. The assay replicates are presented in the order in which
25 they were performed (the duration of time in culture occasionally does not exactly follow
26 the same sequential temporal order for Isolates 292 and 293 as an intermediate
27 cryopreservation and thawing of the isolates was performed). Erythrocytes from 15 different
28 erythrocyte donors used at various times throughout the series of experiments shown here
29 and in Supplementary Table S5 are numbered (RBC Batch), and inspection of the data
30 indicates that these did not determine the variation between assay replicates.

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32 **Supplementary Table S4.** Pairwise tests for significant differences in gametocyte conversion
 33 rates between different Ghanaian *P. falciparum* clinical isolates.

Clinical Isolates	272	280	289	292	293	296
272						
280	0.1447					
289	0.1797	0.0663				
292	0.5594	0.2523	0.0350*			
293	0.0649	0.7756	0.0043**	0.1375		
296	0.0221*	0.7577	0.0047**	0.0379*	0.7308	

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35 P values are from Mann-Whitney comparisons of all of the individual biological replicate
 36 measures for each of the six isolates (as shown in Supplementary Table S3). Statistically
 37 significant comparisons are highlighted in green.

	1	5	-	3.5	-	83	920	9.0 (7.3 - 11.1)
	2	5	-	2.5	-	16	983	1.6 (1.0 - 2.6)
	3	5	-	2.2	-	6	885	0.7 (0.3 - 1.5)
D6	4	9	1.7	3.5	2.1	28	559	5.0 (3.5 - 7.1)
	5	9	1.5	2.5	1.7	86	905	9.5 (7.8 - 11.6)
	6	9	1.0	0.1	0.1	26	973	2.7 (1.8 - 3.9)
	7	9	1.4	0.7	0.5	50	950	5.3 (4.0 - 6.9)
	<i>Mean</i>							4.70
	1	6	1.4	3.3	2.4	22	978	2.2 (1.5 - 3.4)
	2	6	0.8	1.5	1.9	85	914	9.3 (7.6 - 11.4)
	3	6	2.5	1.5	0.6	92	917	10.0 (8.3 - 12.2)
GB4	4	6	1.2	1.0	0.8	37	964	3.8 (2.8 - 5.3)
	5	7	0.9	7.7	8.6	59	940	6.3 (4.9 - 8.0)
	6	7	1.4	3.6	2.6	16	983	1.6 (1.0 - 2.6)
	7	9	0.9	2.2	3.7	34	969	3.5 (2.5 - 4.9)
	<i>Mean</i>							5.26
	1	2	0.9	3.7	4.1	130	902	14.4 (12.3 - 16.9)
	2	3	1.5	1.9	1.6	4	995	0.4 (0.2 - 1.0)
	3	3	1.6	3.0	1.9	9	986	0.9 (0.5 - 1.7)
Dd2	4	4	-	1.1	-	46	953	4.8 (3.6 - 6.4)
	5	4	-	2.6	-	84	916	9.2 (7.5 - 11.2)
	6	12	-	3.6	-	23	532	4.3 (2.9 - 6.4)
	7	12	-	2.1	-	35	885	4.0 (2.9 - 5.5)
	<i>Mean</i>							5.42
	1	2	-	9.2	-	50	691	7.2 (5.5 - 9.4)
	2	2	-	5.0	-	103	1000	10.3 (8.6 - 12.3)
HB3	3	9	3.4	4.5	1.3	57	942	6.1 (4.7 - 7.8)
	4	9	0.9	7.5	8.3	56	944	5.9 (4.6 - 7.6)
	<i>Mean</i>							6.87
	1	2	-	2.3	-	225	1022	22.0 (19.6 - 24.7)
	2	2	-	3.7	-	182	1013	18.0 (15.7 - 20.5)
	3	3	-	6.8	-	73	926	7.9 (6.3 - 9.8)
NF54	4	3	-	6.2	-	54	925	5.8 (4.5 - 7.5)
	5	13	-	1.1	-	41	619	6.6 (4.9 - 8.9)
	6	13	-	8.4	-	11	975	1.1 (0.6 - 2.0)
	7	13	-	8.8	-	27	975	2.8 (1.9 - 4.0)
	<i>Mean</i>							9.18

RO33	1	5	-	2.7	-	153	861	17.8 (15.4 - 20.5)
	2	5	-	1.1	-	68	943	7.2 (5.7 - 9.0)
	3	7	1.3	1.1	0.8	70	932	7.5 (6.0 - 9.4)
	4	7	2.4	0.7	0.3	92	910	10.1 (8.3 - 12.2)
	5	10	-	4.0	-	72	921	7.8 (6.3 - 9.7)
	6	10	1.4	3.6	2.6	124	875	14.2 (12.0 - 16.6)
	<i>Mean</i>							10.77
FCC2	1	5	2.1	4.3	2.0	211	785	26.9 (23.9 - 30.1)
	4	5	2.5	3.9	1.6	147	835	17.6 (15.2 - 20.3)
	5	5	1.1	4.8	4.4	16	484	3.3 (2.0 - 5.3)
	6	5	0.8	3.0	3.8	23	503	4.6 (3.1 - 6.8)
	7	10	-	4.8	-	69	935	7.4 (5.9 - 9.2)
	8	10	-	9.1	-	47	952	4.9 (3.7 - 6.5)
	<i>Mean</i>							10.78
7G8	1	6	2.1	3.2	2.7	159	856	18.6 (16.1 - 21.3)
	2	6	1.2	2.5	2.1	199	803	24.8 (21.9 - 27.9)
	3	10	0.7	1.5	2.1	135	452	29.9 (25.8 - 34.2)
	4	10	1.9	0.9	1.7	24	339	7.1 (4.8 - 10.3)
	5	10	2.2	2.6	1.2	9	456	2.0 (1.0 - 3.7)
	6	11	1.5	2.2	1.5	46	953	4.8 (3.6 - 6.4)
	<i>Mean</i>							14.52

41 Exact counts and 95% confidence intervals of the GCR estimates were performed using
 42 Method 1 (with Pfs16 staining) as plotted and analysed in Figure 4. The parasitaemia in the
 43 day of the setup of each assay (cycle before testing for proportions of gametocytes) is
 44 shown, along with the parasitaemia in the cycle during which the parasites were tested for
 45 expression of Pfs16, and the fold change in parasitaemia between these successive cycles,
 46 except for missing values for some replicates. Erythrocytes from fifteen different
 47 erythrocyte donors used at various times throughout the series of experiments shown here
 48 and in Supplementary Table S3 are numbered (RBC Batch), and inspection of the data shows
 49 that these did not determine the variation between assay replicates.

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51 **Supplementary Table S6.** Pairwise tests for significant differences in gametocyte conversion rates between different *P. falciparum* laboratory
 52 lines. P values are from Mann-Whitney comparisons of all of the individual biological replicate measures for each of the 13 lines (as shown in
 53 Supplementary Table S5). Statistically significant comparisons are highlighted in green.

Lab Isolates	F12	D10	T9/96	Palo Alto	3D7	D6	GB4	Dd2	HB3	NF54	RO33	7G8	FCC2
F12													
D10	0.0047**												
T9/96	0.0022**	0.1696											
Palo Alto	0.0022**	0.2459	0.6082										
3D7	0.0012**	0.0017**	0.0052**	0.1521									
D6	0.0012**	0.0012**	0.0023**	0.0216*	0.0781								
GB4	0.0012**	0.0006***	0.0012**	0.0047**	0.0117*	0.6457							
Dd2	0.0012**	0.0012**	0.0047**	0.0338*	0.1282	>0.9999	>0.9999						
HB3	0.0048**	0.0030**	0.0095**	0.0061**	0.0012**	0.2303	0.4121	0.3124					
NF54	0.0012**	0.0006***	0.0012**	0.0082**	0.0175*	0.3176	0.535	0.3176	0.9273				
RO33	0.0022**	0.0012**	0.0022**	0.0022**	0.0012**	0.035*	0.035*	0.0734	0.026*	0.4452			
7G8	0.0022**	0.0012**	0.0022**	0.0043**	0.0082**	0.1807	0.1807	0.1101	0.3939	0.4452	>0.9999		
FCC2	0.0022**	0.0012**	0.0022**	0.0022**	0.0012**	0.336	0.2949	0.2343	0.9143	0.9452	0.3939	0.6991	

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Supplementary Table S7. Numerical counts and calculated values of assays measuring the effect of choline-free medium on gametocyte conversion rates (GCR) of five different *P. falciparum* lines. The effect on GCR within each biological replicate assay is shown as a Rate Ratio with 95% confidence intervals, based on the GCR (proportions of parasites expressing Pfs16) with and without choline. Mantel-Haenszel adjusted mean Rate Ratios show the overall effects across all replicates with 95% confidence intervals.

Replicate Assays	Condition	% Parasitaemia cycle before	% Parasitaemia Post invasion	Fold-change	Pfs16 +ve	Pfs16 -ve	Rate Ratio (\pm 95%CI)	GCR (\pm 95%CI)	Adjusted mean Rate Ratio (\pm 95%CI)
<i>P. falciparum</i> line HB3									
R1	-choline		3.4	1.2	16	967	2.03	1.6 (1.0 - 2.6)	1.98 (1.55 - 2.52)
	+ choline	2.8	3.5	1.3	7	864	(0.93 - 5.46)	0.8 (0.4 - 1.6)	
R2	-choline		9.7	12	29	943	3.69	3.0 (2.1 - 4.3)	
	+ choline	0.8	8.8	11	8	983	(1.69 - 8.04)	0.8 (0.4 - 1.6)	
R3	-choline		-	-	34	902	12.05	3.6 (2.6 - 5.0)	
	+ choline	0.9	-	-	3	993	(3.71 - 39.13)	0.3 (0.1 - 0.9)	
R4	-choline		7.4	5.3	36	929	2.01	3.7 (2.7 - 5.1)	
	+ choline	1.4	4.1	2.9	18	950	(1.15 - 3.51)	1.9 (1.2 - 2.9)	
R5	-choline		5.4	9.0	24	954	1.26	2.5 (1.7 - 3.6)	
	+ choline	0.6	9.0	15	19	961	(0.70 - 2.30)	1.9 (1.2 - 3.0)	
R6	-choline		8.6	14	14	970	1.00	1.4 (0.8 - 2.4)	
	+ choline	0.6	10.0	17	14	971	(0.48 - 2.09)	1.4 (0.8 - 2.4)	
R7	-choline		2.8	4.7	20	959	0.95	2.0 (1.3 - 3.1)	
	+ choline	0.6	1.9	3.2	21	957	(0.52 - 1.74)	2.1 (1.4 - 3.3)	
R8	-choline		4.7	-	19	962	2.40	1.9 (1.2-3.0)	
	+ choline	-	5.2	-	8	983	1.06 - 5.45)	0.8 (0.4 - 1.6)	
<i>P. falciparum</i> line Dd2									
R1	-choline		2.5	2.5	194	619	5.58	23.9 (21.1 - 26.9)	3.51 (3.00 - 4.11)
	+ choline	1.0	3.2	3.2	41	917	(4.03 - 7.71)	4.3 (3.2 - 5.8)	
R2	-choline		5.1	6.4	42	1867	0.95	2.2 (1.6 - 3.0)	
	+ choline	0.8	1.9	2.4	37	1562	(0.61 - 1.47)	2.31 (1.7 - 3.2)	
R3	-choline		3.8	1.8	51	912	1.21	5.3 (4.1 - 6.9)	
	+ choline	2.1	2.3	1.1	42	915	(0.81 - 1.80)	4.4 (3.3- 5.9)	
R4	-choline		7.8	6.0	105	799	16.56	11.6 (9.7 - 13.9)	
	+ choline	1.3	7.9	6.1	7	991	(7.75 - 35.40)	0.7 (0.3 - 1.4)	
R5	-choline		6.4	4.3	141	847	12.82	14.3 (12.2 - 16.6)	
	+ choline	1.5	12.5	8.3	11	977	(6.98 - 23.53)	1.1 (0.6 - 2.0)	
R6	-choline		9.7	-	93	824	2.07	10.1 (8.4 - 12.3)	
	+ choline	-	9.5	-	47	910	(1.47 - 2.90)	4.9 (3.7 - 6.5)	

<i>P. falciparum</i> line 3D7									
R1	-choline		10	3.6	17	965		1.7(1.1 - 2.8)	
	+ choline	2.8	2.6	0.9	14	969	1.22 (0.60 - 2.45)	1.4 (0.9 - 2.4)	
R2	-choline		8.5	11	1	997		0.1 (0.0 - 0.6)	
	+ choline	0.8	8.6	11	5	989	0.20 (0.02- 1.70)	0.5 (0.2 - 1.2)	
R3	-choline		-	-	6	987		0.6 (0.3 -1.3)	
	+ choline	0.9	-	-	2	995	3.01 (0.61 - 14.88)	0.2 (0.0 - 0.7)	
R4	-choline		-	-	34	931		3.5 (2.5 - 4.9)	
	+ choline	1.4	-	-	10	970	3.45 (1.72 - 6.95)	1.0 (0.6 - 1.9)	
R5	-choline		4.5	7.5	4	940		0.4 (0.2 - 1.1)	1.50 (1.16 - 1.94)
	+ choline	0.6	4.4	7.3	5	961	0.82 (0.22 - 3.04)	0.5 (0.2 - 1.2)	
R6	-choline		9.5	16	6	987		0.6 (0.3 - 1.3)	
	+ choline	0.6	8.8	15	9	961	0.65 (0.23 - 1.82)	0.9 (0.5 - 1.8)	
R7	-choline		-	-	35	931		3.6 (2.6 - 5.0)	
	+ choline	0.6	-	-	19	961	1.86 (1.08 - 3.24)	1.9 (1.2 -3.0)	
R8	-choline		5.3	-	43	913		4.5 (3.4 - 6.0)	
	+ choline	-	4.0	-	34	938	1.28 (0.83 - 1.99)	3.5 (2.5 - 4.8)	
<i>P. falciparum</i> line T9/96									
R1	-choline		9.6	4.4	7	985		0.7 (0.3 - 1.4)	
	+ choline	2.2	2.2	1.0	7	985	1.00 (0.35 - 2.84)	0.7 (0.3 - 1.4)	
R2	-choline		8.4	5.6	2	995		0.2 (0.0 - 0.7)	
	+ choline	1.5	8.6	5.7	4	1131	0.57 (0.10 - 3.10)	0.4 (0.1 - 0.9)	
R3	-choline		8.1	3.7	2	995		0.2 (0.0 - 0.7)	
	+ choline	2.2	7.2	3.3	0	999	no estimate	0 (0)	
R4	-choline		-	-	2	934		0.2 (0.0 - 0.8)	0.8 (0.51 - 1.19)
	+ choline	0.6	-	-	8	983	0.26 (0.06 - 1.24)	0.8 (0.4 - 1.6)	
R5	-choline		-	-	5	643		0.8 (0.3 - 1.8)	
	+ choline	0.6	-	-	4	429	0.83 (0.23 - 3.09)	0.9 (0.4 - 2.4)	
R6	-choline		4.3	-	11	978		1.1 (0.6 - 2.0)	
	+ choline	-	4.8	-	13	973	0.84 (0.38 - 1.88)	1.3 (0.8 - 2.2)	
R7	-choline		2.7	-	9	739		1.2 (0.6 - 2.3)	
	+ choline	-	1.6	-	12	780	0.79 (0.34 - 1.87)	1.5 (0.9 -2.6)	

<i>P.falciparum</i> line NF54								
R1	-choline	-	3.7	-	27	945	2.50	2.8 (1.9 - 4.0)
	+ choline	-	12.7	-	11	978	(1.25 - 5.01)	1.1 (0.6 - 2.0)
R2	-choline	-	6.6	-	30	943	5.11	3.1 (2.2- 4.4)
	+ choline	-	6.8	-	6	990	(2.13 - 12.24)	0.6 (0.3 - 1.3)
R3	-choline	1.5	5.1	3.4	40	819	3.53	4.7 (3.4- 6.3)
	+ choline	1.5	4.0	2.7	13	973	(1.90 - 6.56)	1.3 (0.8 - 2.2)
R4	-choline	1.0	4.5	4.6	43	913	5.57	4.5 (3.4 - 6.0)
	+ choline	1.0	10.6	11	8	983	(2.63 - 11.79)	0.8 (0.4 - 1.6)
R5	-choline	0.4	4.3	11	70	861	1.52	7.5 (6.0 - 9.4)
	+ choline	0.4	5.0	13	47	905	(1.06 - 2.18)	4.9 (3.7 - 6.5)
R6	-choline	0.7	5.6	8.0	60	880	1.86	6.4 (5.0 - 8.1)
	+ choline	0.7	2.1	3.0	33	933	(1.23 - 2.83)	3.4 (2.4 - 4.8)
R7	-choline	1.0	3.9	3.9	8	983	1.60	0.8 (0.4 - 1.6)
	+ choline	1.0	1.6	1.6	5	986	(0.53 - 4.87)	0.5 (0.2 - 1.2)
R8	-choline	0.6	2.5	4.2	15	970	5.06	1.5 (0.9 - 2.5)
	+ choline	0.6	4.0	6.7	3	993	(1.47 - 17.41)	0.3 (0.1 - 0.9)

2.41
(1.97 - 2.96)