

**Supplementary Table S1.** SYBR Green I and PFMs20 binding in pre- and post-synchronized cultures

Methods	SYBR Green I	PFMs20	Binding rates (%)
Pre-synchronization	4.02±0.12	1.60±0.25	39.78±6.09
5% D-sorbitol	0.88±0.04	0.08±0.03	9.01±2.85
60% PS-Up	98.07±0.11	84.17±0.95	85.83±0.97
60% PS-Down	2.46±0.12	0.15±0.05	6.07±1.83
70%-40% PS-Up	91.10±0.26	78.72±1.00	86.41±1.10
70%-40% PS-Down	2.12±0.09	0.18±0.02	8.46±0.71
Plasmion-Up	38.30±0.23	28.20±0.80	73.62±2.09
Plasmion-Down	2.82±0.08	0.64±0.03	22.58±1.18

The binding rate (%) of SYBR Green I and PFMs20 with different cultures of *Plasmodium falciparum* 3D7 before and after synchronization. The binding rate reported as mean±SD ( $n=3$ ).