

Table S3 The effect of assuming ρ large in $M(\rho)$ when deriving the diffusion approximation to the mean absorption time.

r	m	$N_e = 100$				$N_e = 10^3$				$N_e = 10^4$			
		$q_c = 0$	$q_c = 0.2$	$q_c = 0.5$	$q_c = 0.8$	$q_c = 0$	$q_c = 0.2$	$q_c = 0.5$	$q_c = 0.8$	$q_c = 0$	$q_c = 0.2$	$q_c = 0.5$	$q_c = 0.8$
0.05	0.006	3.818	1.995	0.770	0.211	6.558×10^5	1.892×10^4	242.595	6.217	1.397×10^{57}	1.503×10^{42}	4.312×10^{23}	3.395×10^8
0.05	0.012	1.391	0.901	0.382	0.106	1.288×10^4	2.086×10^3	77.967	3.411	8.300×10^{40}	1.700×10^{33}	1.534×10^{19}	4.275×10^6
0.05	0.018	0.280	0.299	0.167	0.054	27.006	41.590	5.361	0.371	6.349×10^{14}	1.583×10^{17}	1.140×10^{10}	448.323
0.05	0.024	0.025	0.118	0.092	0.035	-0.014	0.620	0.235	0.056	-0.427	1.367×10^4	1.808	0.075
0.10	0.006	0.404	0.301	0.169	0.060	22.759	11.577	3.772	0.843	3.891×10^{13}	7.582×10^{10}	5.379×10^6	435.536
0.10	0.012	0.149	0.129	0.080	0.030	4.922	4.152	1.995	0.539	5.884×10^7	1.595×10^7	7.357×10^4	86.049
0.10	0.018	0.033	0.048	0.037	0.015	0.372	0.565	0.292	0.073	48.506	487.778	88.493	3.323
0.10	0.024	0.003	0.022	0.022	0.010	-0.008	0.038	0.037	0.015	-0.029	0.077	0.053	0.018
0.20	0.006	0.083	0.067	0.042	0.017	1.181	0.915	0.528	0.191	2.241×10^3	623.130	66.327	4.677
0.20	0.012	0.027	0.027	0.019	0.008	0.439	0.442	0.313	0.125	39.447	41.132	15.525	2.415
0.20	0.018	0.006	0.010	0.009	0.004	0.029	0.056	0.044	0.017	0.643	1.783	1.417	0.405
0.20	0.024	0.000	0.005	0.006	0.003	-0.001	0.006	0.008	0.004	-0.003	0.008	0.010	0.005

The relative error $\tilde{t}_{\text{QIE}, \rho \gg 0} / \tilde{t}_{\text{QIE}} - 1$ is tabulated. The initial frequency of the focal mutant A_1 is $p_0 = 1/(2N)$ (we assumed $N_e = N$). Other parameters are $a = 0.02$ and $b = 0.04$. For a graphical representation, see Figure S13B.