

Tables

Table 1. One-step growth kinetic model parameters

Strain	Model	$k_3(h^{-1})$	τ or τ_e (h)	k_4 or $1/\tau_i(h^{-1})$	$\tau_i(h)$	$k_5(h^{-1})$	OF	AIC _C
African	exponentially distributed delay	1.02×10^{-6}		9.69×10^{-9}		57.84	14.0	9.54
	gamma distributed delay		19.8 ± 0.2	5.63×10^{-2}	18 ± 2	29.3 ± 0.9	2.82	-11.8
	fixed delay		15.3 ± 0.4	$1 \pm 1 \times 10^{-2}$		14 ± 3	5.73	-4.79
Asian	exponentially distributed delay	5.64×10^{-5}		0		1.26	14.8	10.4
	gamma distributed delay		12.0 ± 0.2	5.8×10^{-2}	17 ± 3	4.5 ± 0.7	2.68	-12.6
	fixed delay		11.3 ± 0.3	$5.4 \pm 1.1 \times 10^{-2}$		4.2 ± 0.8	3.63	-12.1

Table 2. Multi-step growth kinetic model parameters

Strain	Model	$k_2(mL \cdot h^{-1})$	$k_3(h^{-1})$	τ or $\tau_e(h)$	k_4 or $1/\tau_i(h^{-1})$	$\tau_i(h)$	$k_5(h^{-1})$	OF	AIC _c
Africa n	exponentially distributed delay	1.56×10^{-7}	1.02×10^{-6}		0		2.90×10^5	807	100
	gamma distributed delay	$1.37 \pm 0.01 \times 10^{-7}$		27.7 ± 0.2	3.65×10^{-2}	9.1 ± 0.1	49.9 ± 0.9	283	81.2
	fixed delay	$1.19 \pm 0.01 \times 10^{-7}$		15.5 ± 0.3	$1.0 \pm 0.2 \times 10^{-2}$		5.4 ± 0.1	416	83.4
	exponentially distributed delay	$4.4 \pm 0.6 \times 10^{-6}$	2.15×10^{-2}		2.24×10^{-2}		1.89	137	55.7
Asian	gamma distributed delay	$4.00 \pm 0.07 \times 10^{-6}$		7.2 ± 0.2	6.25×10^{-3}	160 ± 3	0.67 ± 0.01	124	60.6
	fixed delay	$6.06 \pm 0.01 \times 10^{-6}$		8.47 ± 0.06	$1.61 \pm 0.01 \times 10^{-2}$		0.938 ± 0.005	151	58.1

Table 3. Sensitivity indices of parameters

		k_1	N	k_2	τ	k_4	k_5	k_6
African	Peak titer	0.25	0.09	0.00	0.10	0.04	0.27	0.28
	Time course	0.11	0.07	0.03	0.44	0.01	0.30	0.08
		k_1	N	k_2	k_3	k_4	k_5	k_6
Asian	Peak titer	0.24	0.09	0.00	0.01	0.14	0.18	0.37
	Time course	0.15	0.05	0.01	0.18	0.08	0.35	0.21

Table 4. One-step growth kinetic model parameters for Moser et al.

	$\tau(h)$	$k_4(h^{-1})$	$I_0 \times k_5(mL^{-1}h^{-1})$	$k_6(h^{-1})$
ZIKV-PRV	16	0.046	1.9×10^5	0.046
ZIKV-PAN	17	0.076	8.5×10^6	0.076
ZIKV-FLR	17	0.053	3.6×10^6	0.053