Values for important parameters

Dominant			
timescale	r	m	r and m
$B_c = 1/(\tau cd)$	15873.016 cells/ml	256410.26 cells/ml	1111.11 cells/ml
$P_c = 1/(\tau d)$	2380952.38 virions/ml	38461538.46 virions/ml	166666.66 virions/ml
B_0	1000 cells/ml	666666666.67 cells/ml	55555.55 cells/ml
P_0	1e4 virions/ml	1 virions/ml	333333333333 cells/ml
au	14 h	260 h	200 h
$w_{growth} = r\tau$	12.6	2.6e - 08	20.0
$w_{decay} = m\tau$	0.0042	26.0	20.0
Transition times	$t_1^c = 3.07 \text{ h}, t_2^c = 7.79$	$t_1^c = 19.50 \text{ h}, t_2^c = 33.98$	
	$h, t_3^c = 9.068 \text{ h}$	$h, t_3^c = 81.46 h$	
Error Bacteria*	0.0952	0.0295	0.0
SD Bacteria	0.1448	0.0166	0.0
Error Phage	0.0321	0.0173	0.0
SD Phage	0.0241	0.0076	0.0
Error Total	0.0636	0.0234	0.0
SD Total	0.0683	0.0114	0.0

^{*}How the error was calculated:

- 1. For each point (time point) i take the concentration of bacteria and phage given by the full model $(B_i^f\ P_i^f)$ and by the simplified model $(B_i^m\ P_i^m)$
- 2. Calculate the absolute value of the relative error of bacteria $|\epsilon_B|(i) = |\frac{B_i^f B_i^m}{B_i^f}|$, the absolute value of the relative error of phage $|\epsilon_P|(i) = |\frac{P_i^f - P_i^m}{P_i^f}|$, and their average: $\epsilon_{Tot}(i) = 0.5(|\epsilon_B|(i) + |\epsilon_P|(i))$
- 3. Iterate over all points. This gives the vectors $|\epsilon_B| = (|\epsilon_B|(1), |\epsilon_B|(2), \dots, |\epsilon_B|(n)), |\epsilon_P|$, and $|\epsilon_{Tot}|$ 4. The error of bacteria, phage, and the total error are the means of the vectors mentioned above: $|\epsilon_B|$, $|\epsilon_P|, |\epsilon_{Tot}|$