Table S2. Adsorbed *A* and *B* phages per unit time under the Primary and Secondary adsorption settings.

Primary adsorption setting	Standard		Poisson	
Secondary adsorption setting	Uninfected	Susceptible	Uninfected	Susceptible
	Phages adsorb one at a time to uninfected non-resistant cells	Phages adsorb one at a time to non-resistant cells	A number of phages adsorb according to a Poisson probability with lambda = MOI to uninfected non-resistant cells	A number of phages adsorb according to a Poisson probability with lambda = MOI to non-resistant cells
Bacteria	Conceivably adsorbing phages			
S = Susceptible	*A* or *B*	*A* or *B*	*A* and *B*	*A* and *B*
I_A = Infected by *A*	*B*	*A* or *B*	*B*	*A* and *B*
I_B = Infected by *B*	*A*	*A* or *B*	*A*	*A* and *B*
I_{AB} = Infected by *A* and *B*	-	*A* or *B*	-	*A* and *B*
R_A = Resistant to infections by *A*	*B*	*B*	*B*	*B*
R_B = Resistant to infections by *B*	*A*	*A*	*A*	*A*
R_{AB} = Resistant to infections by *A* and *B*	-	-	-	-
R_{AIB} = Resistant to infections by *A* infected with *B*	-	*B*	-	*B*
R_{BIA} = Resistant to infections by *B* infected with *A*	-	*A*	-	*A*
S_r = Susceptible planktonic bacteria in a refuge	-	*A* or *B* No infection	*A* and *B* No infection	*A* and *B* No infection
R_{rA} = Planktonic bacteria resistant to *A* in a refuge	-	*B* No infection	*B* No infection	*B* No infection
R_{rB} = Planktonic bacteria resistant to *B* in a refuge	-	*A* No infection	*A* No infection	*A* No infection
R_{rAB} = Planktonic bacteria resistant to *AB* in a refuge	-	-	-	-
S_r = Susceptible bacteria in a LIFO refuge	-	-	-	-

R_{rA} = Bacteria resistant to A in a LIFO refuge	-	-	-	-
R_{rB} = Bacteria resistant to B in a LIFO refuge	-	-	-	-
R_{rAB} = Bacteria resistant to AB in a LIFO refuge	-	-	-	-