

SUPPORTING INFORMATION

Minimizing Virus Transport in Porous Media by Optimizing Solid Phase Inactivation

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Table: S1

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16 **Table S1:** The standard error coefficient (*S.E Coeff*) for fitted model parameters k_{att1} , S_{max1} , k_{det1} , μ_{s1} , k_{att2} , and k_{det2} to viruses PRD1
 17 and Φ X174 BTCs using one-site or two-site kinetic models. The simulated BTCs shown in Figure 1B and the corresponding fitted
 18 model parameters are given in Table 1.

Virus	Temperature	Model	<i>S.E Coeff</i> - k_{att1}	<i>S.E Coeff</i> - S_{max1}	<i>S.E Coeff</i> - k_{det1}	<i>S.E Coeff</i> - μ_{s1}	<i>S.E Coeff</i> - k_{att2}	<i>S.E Coeff</i> - k_{det2}
	[°C]							
Φ X174	4	One-Site	9.3×10^{-3}	5.9×10^{-1}	1.7×10^{-4}	3.4×10^{-3}	NA	NA
		Two-Site	5.0×10^{-3}	NA	NA	NA	1.6×10^{-6}	3.3×10^{-6}
	20	One-Site	1.4×10^{-2}	5.36	1.8×10^{-3}	1.0×10^{-3}	NA	NA
		Two-Site	5.9×10^{-3}	NA	NA	NA	1.3×10^{-6}	1.9×10^{-5}
PRD1	4	One-Site	9.3×10^{-3}	1.9×10^{-1}	4.2×10^{-3}	1.9×10^{-4}	NA	NA
		Two-Site	7.1×10^{-3}	NA	NA	NA	6.6×10^{-7}	1.1×10^{-5}
	20	One-Site	6.5×10^{-3}	6.1×10^{-1}	5.5×10^{-8}	3.0×10^{-5}	NA	NA
		Two-Site	5.0×10^{-1}	NA	NA	NA	1.6×10^{-9}	4.7×10^{-4}

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