

Model	Transit time distribution $g(\tau)$	Parameter range for Monte Carlo simulations*
Gamma model (GM)	$\frac{\tau^{\alpha-1}}{\beta^\alpha \Gamma(\alpha)} \exp\left(-\frac{\tau}{\beta}\right)$	α [0.0001–10] τ [1–400] $\beta = \alpha/\tau$
Exponential piston flow model (EPM)	$\frac{\eta}{\tau} \exp\left(-\frac{\eta t}{\tau} + \eta - 1\right) \text{ for } t \geq \tau \left(1 - \eta^{-1}\right)$ $0 \text{ for } t < \tau \left(1 - \eta^{-1}\right)$	τ [1–400] η [0.1–4]