|                       |                      |                      |
|-----------------------|----------------------|----------------------|
| Bulk CheR binding to tether | $a'_r$ | $1/14.7 \text{ s}^{-1}/T_{Tot,0}$ |
| CheR unbinding tether | $d'_r$ | $5 \text{ s}^{-1}$ |
| Bulk CheB binding to tether | $a'_b$ | $1/16.3 \text{ s}^{-1}/T_{Tot,0}$ |
| CheB unbinding tether | $d'_b$ | $5 \text{ s}^{-1}$ |
| CheR catalytic rate | $k_r$ | $2.7 \text{ s}^{-1}$ |
| CheB catalytic rate | $k_b$ | $3 \text{ s}^{-1}$ |
| Tethered CheR modification site affinity | $K_r$ | $0.03$ |
| Tethered CheB modification site affinity | $K_b$ | $0.03$ |
| CheB phosphorylation rate | $a_p$ | $3 \text{ s}^{-1}/T_{Tot}$ |
| CheB-P dephosphorylation rate | $d_p$ | $0.37 \text{ s}^{-1}$ |