

Table 3. Parameter robustness

| Parameter | X_{high} | X_{low} |
|--------------|-------------------|------------------|
| α | 141.96 | 120.15 |
| β | 82.95 | 81.22 |
| ρ | 85.78 | 94.37 |
| λ | 177.18 | 120.88 |
| N_{LacY} | 73.62 | 91.61 |
| N_{GFP} | 82.42 | 94.70 |
| N_{LacI} | 75.12 | 89.13 |
| b_{LacY} | 83.29 | 63.02 |
| b_{GFP} | 90.80 | 71.45 |
| b_{LacI} | 70.27 | 74.07 |
| $\tau_{1/2}$ | 95.61 | 119.71 |

Results of parameter robustness simulations where fractional error (X) is reported for changes in each individual parameter. For comparison, the cost calculated from two replicates of the same experiment is $X_{\text{Experimental}} = 45.50$ and the cost for parameters given by values in Table 1 is $X_0 = 67.02$.