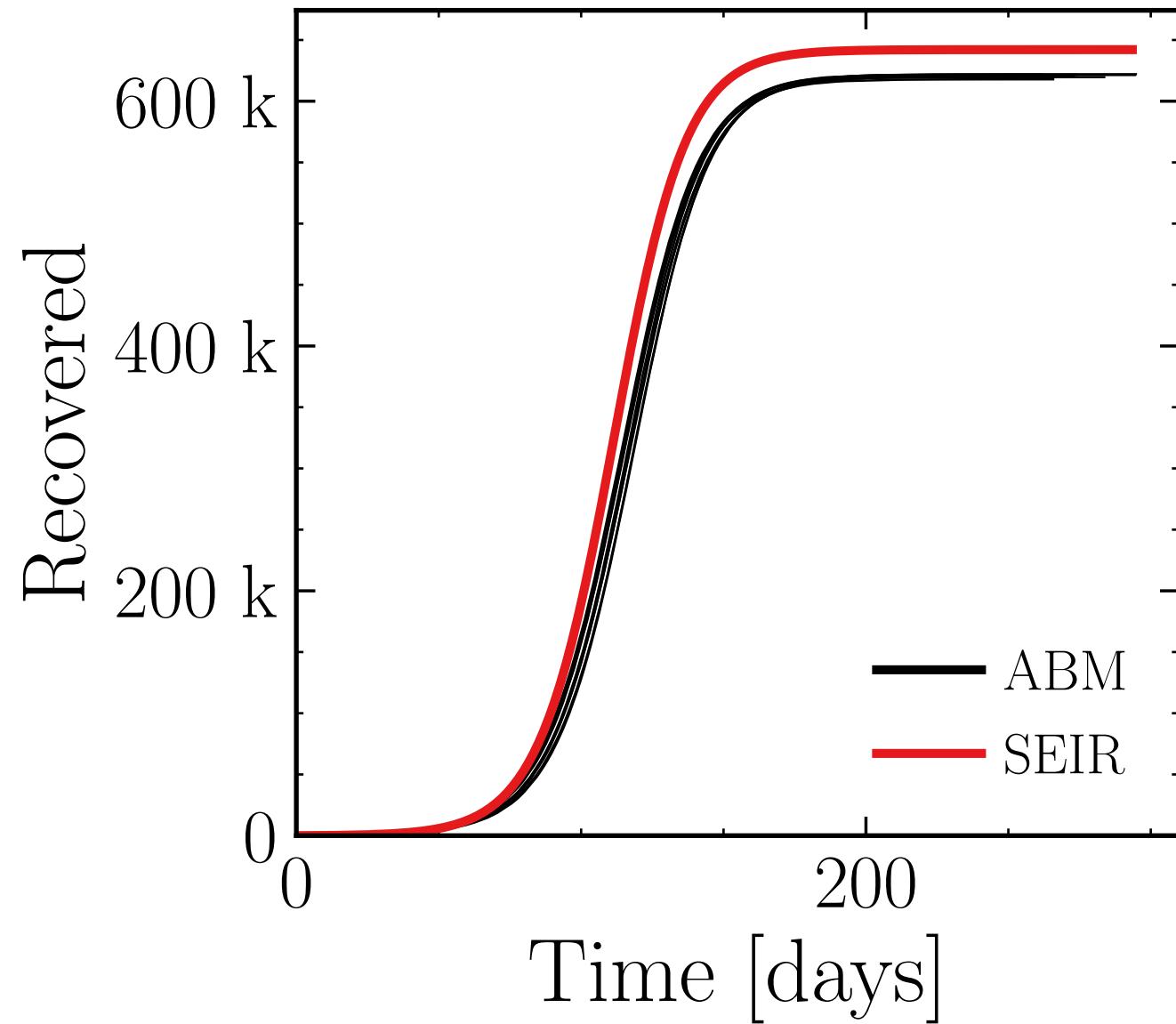
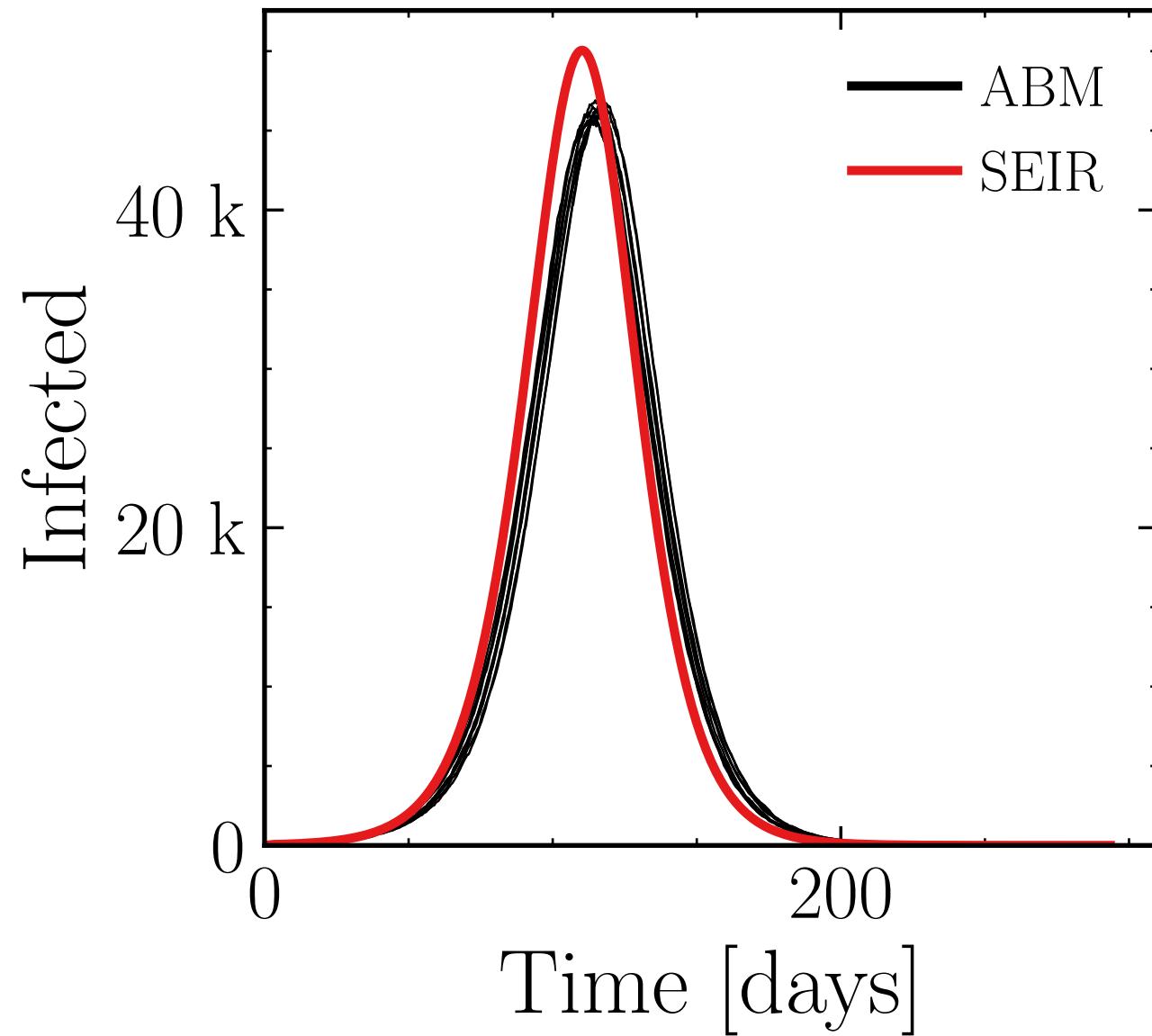


$N_{\text{tot}} = 1M$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (46.2 \pm 0.3\%) \cdot 10^3$$

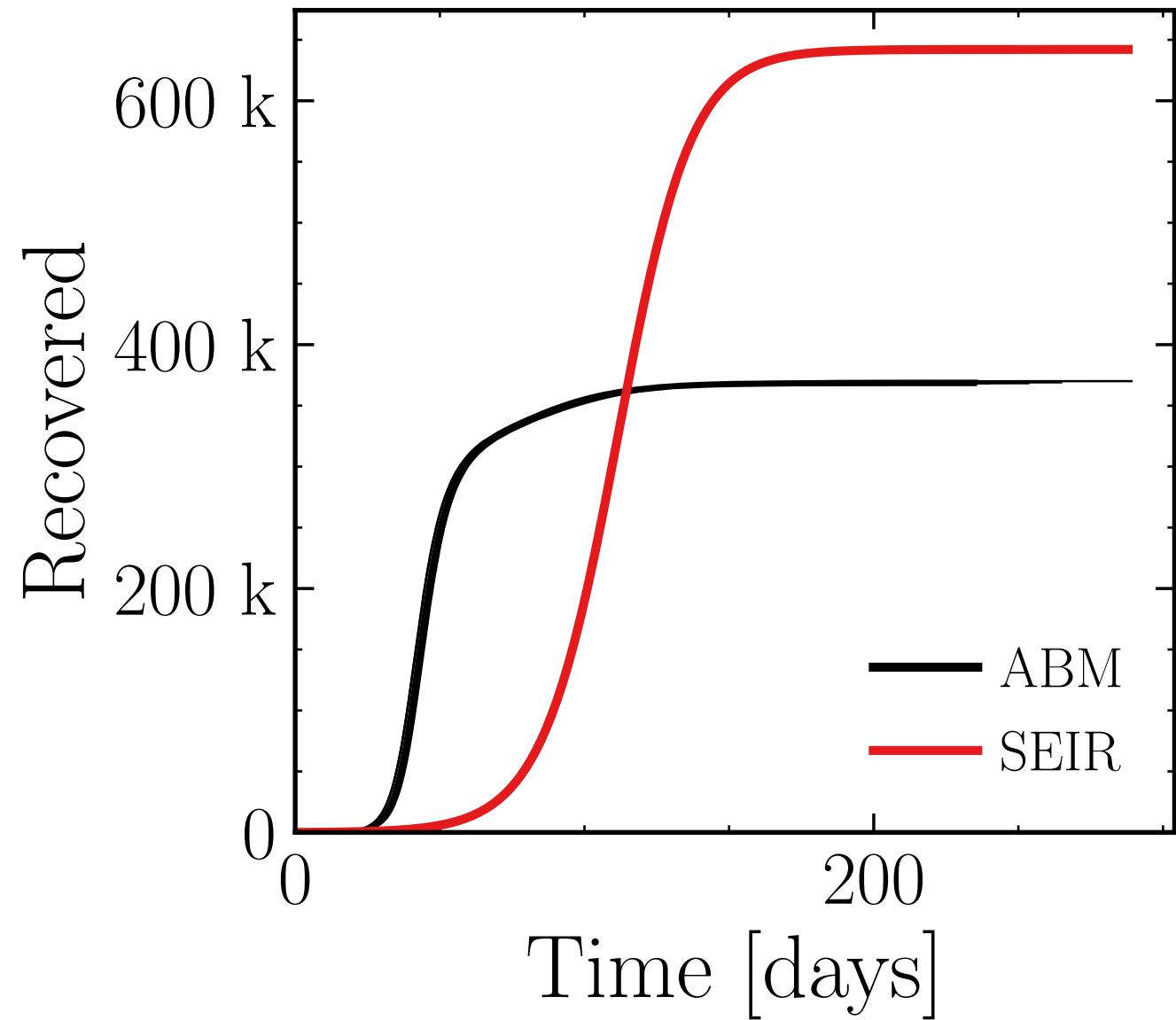
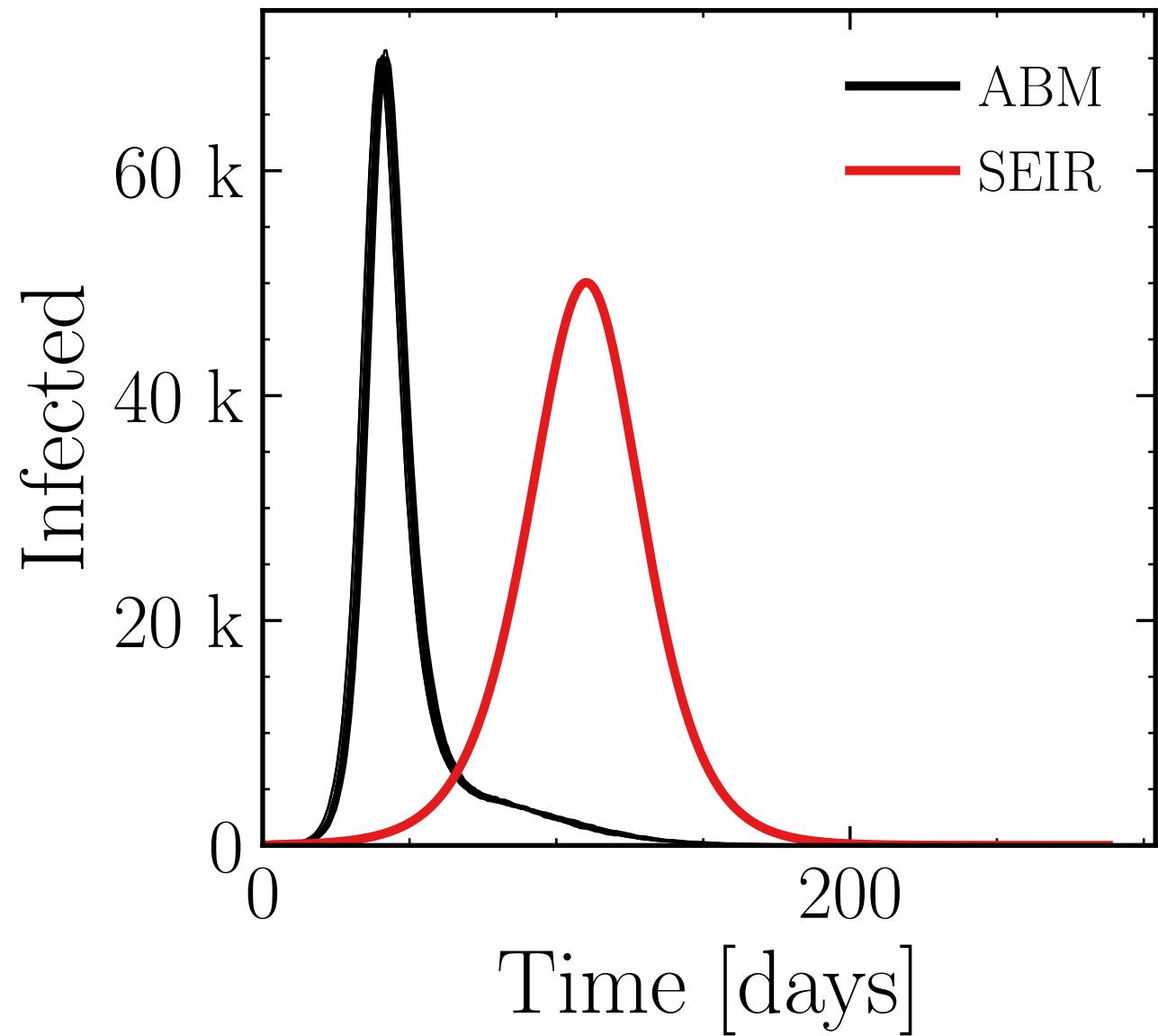
$$R_\infty^{\text{ABM}} = (620.6 \pm 0.062\%) \cdot 10^3$$



$N_{\text{tot}} = 1M$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

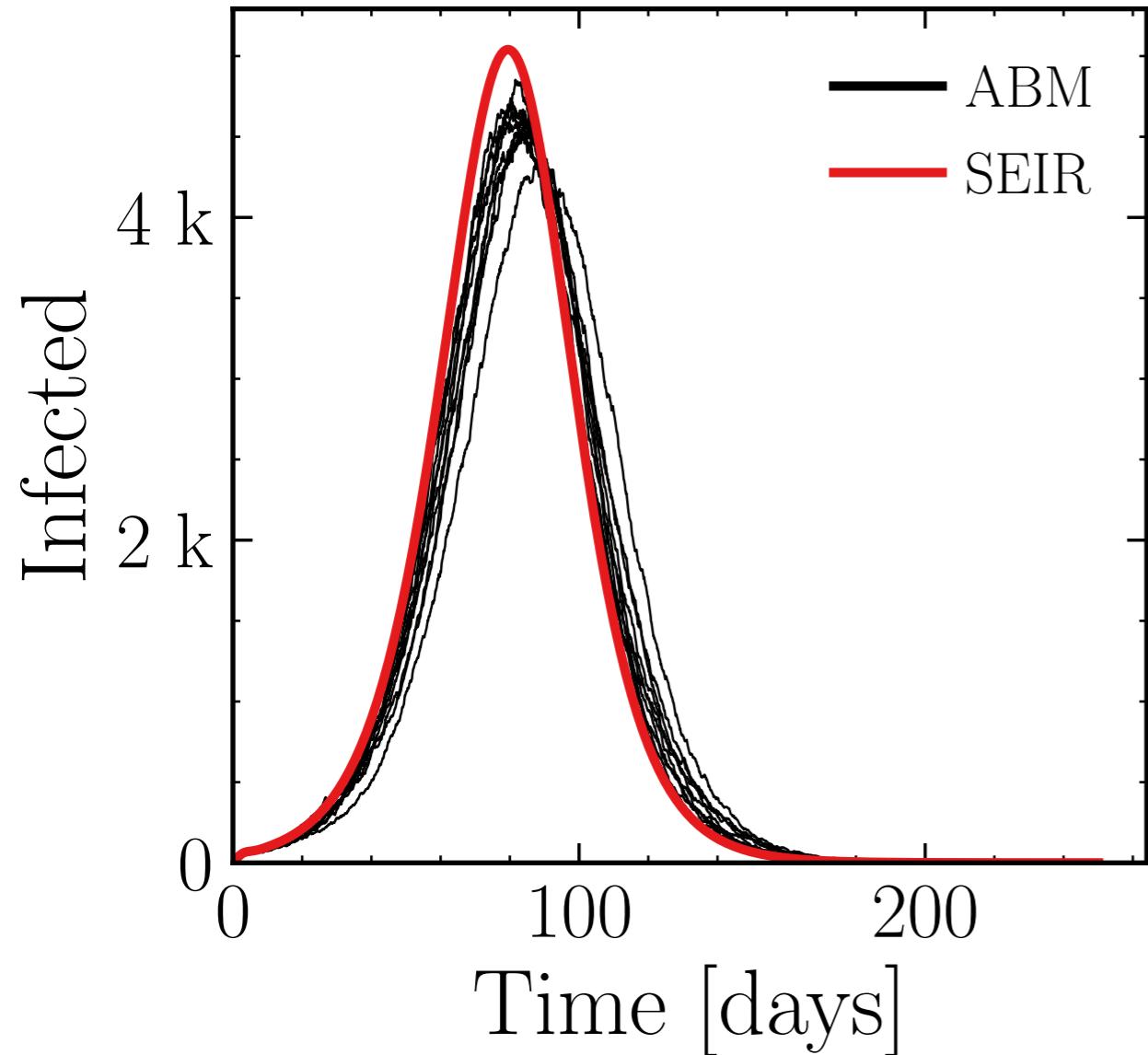
$$I_{\max}^{\text{ABM}} = (70.03 \pm 0.14\%) \cdot 10^3$$

$$R_\infty^{\text{ABM}} = (369 \pm 0.08\%) \cdot 10^3$$

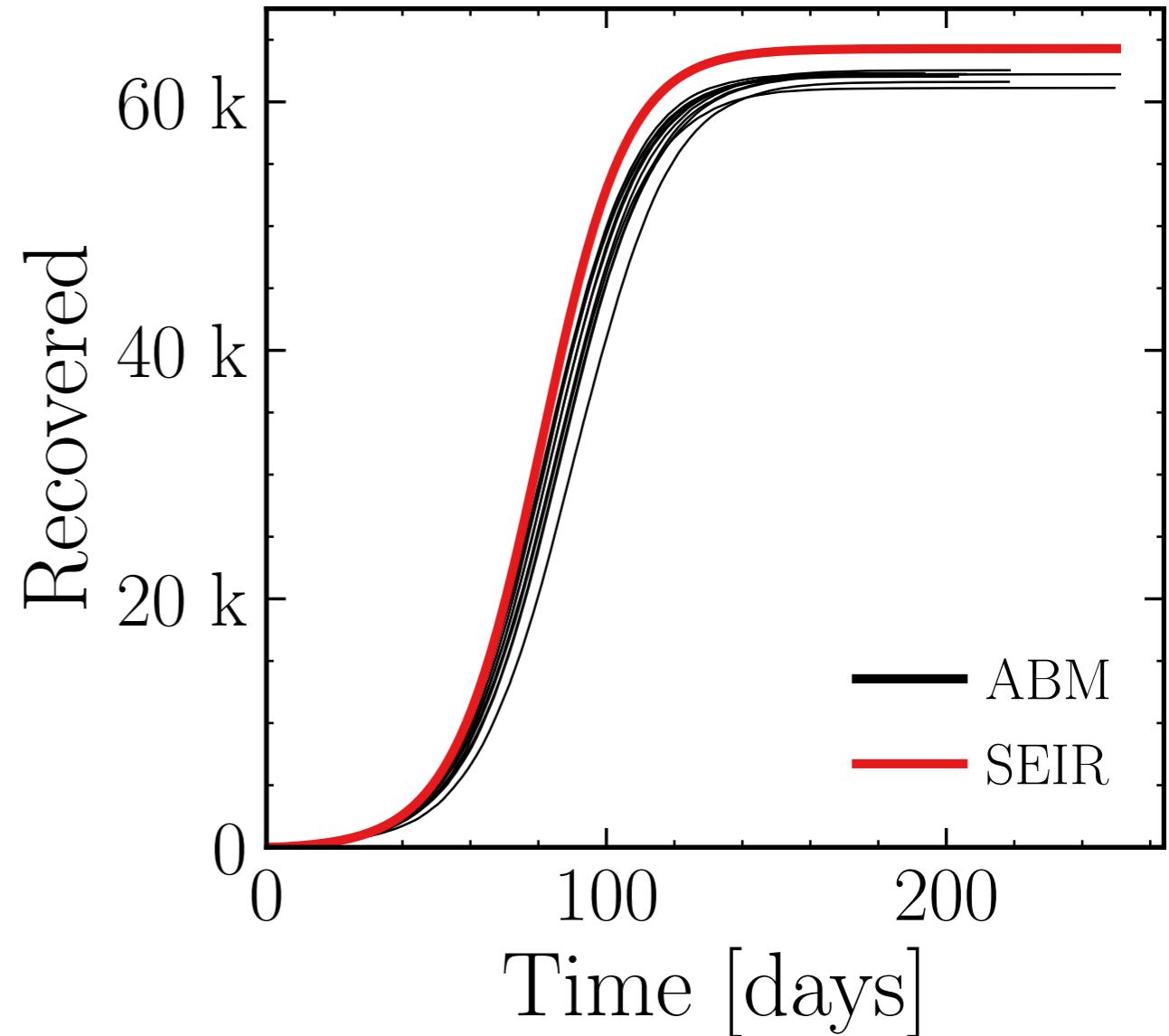


$N_{\text{tot}} = 100K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (4.62 \pm 0.89\%) \cdot 10^3$$

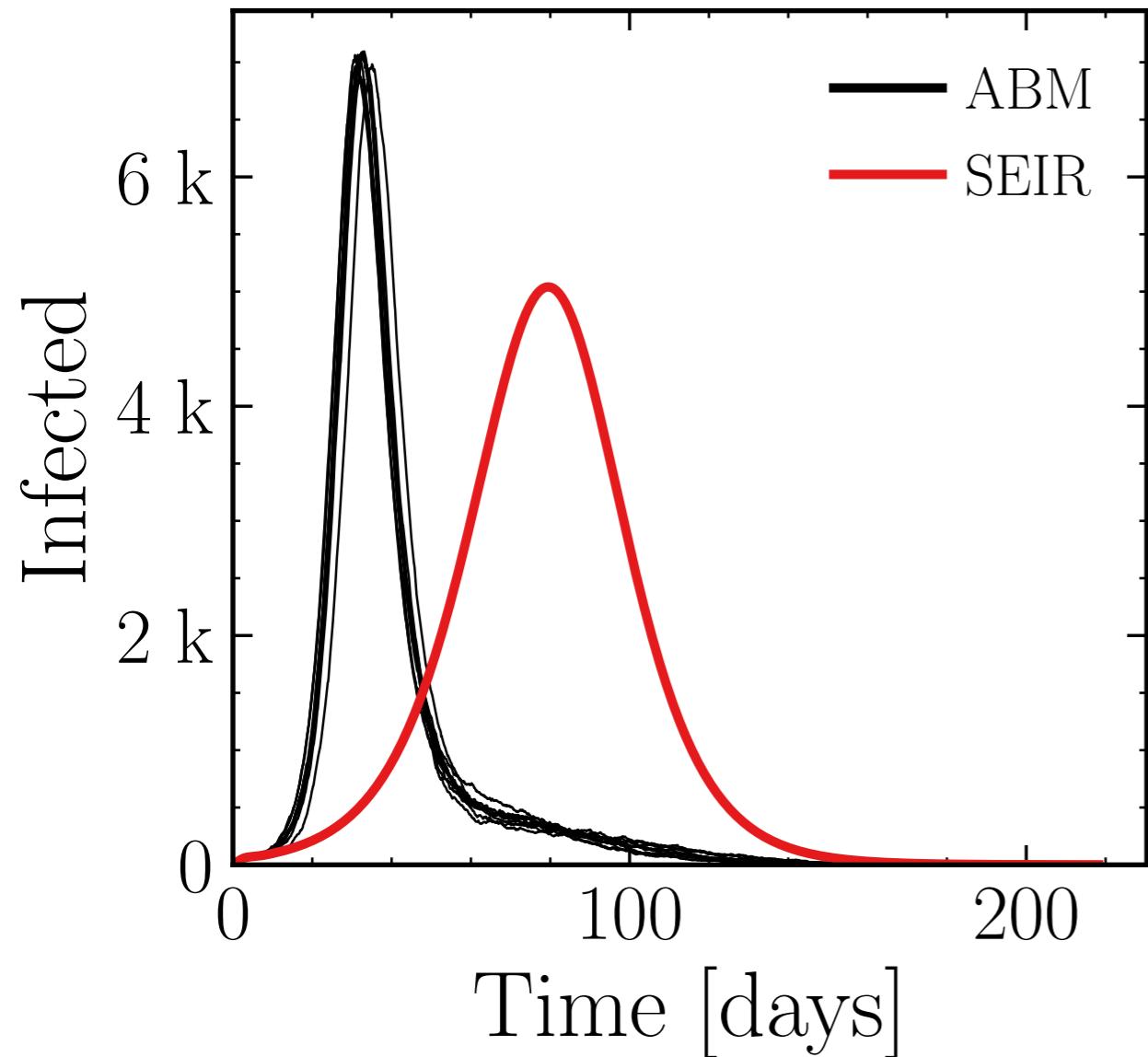


$$R_\infty^{\text{ABM}} = (62.1 \pm 0.2\%) \cdot 10^3$$

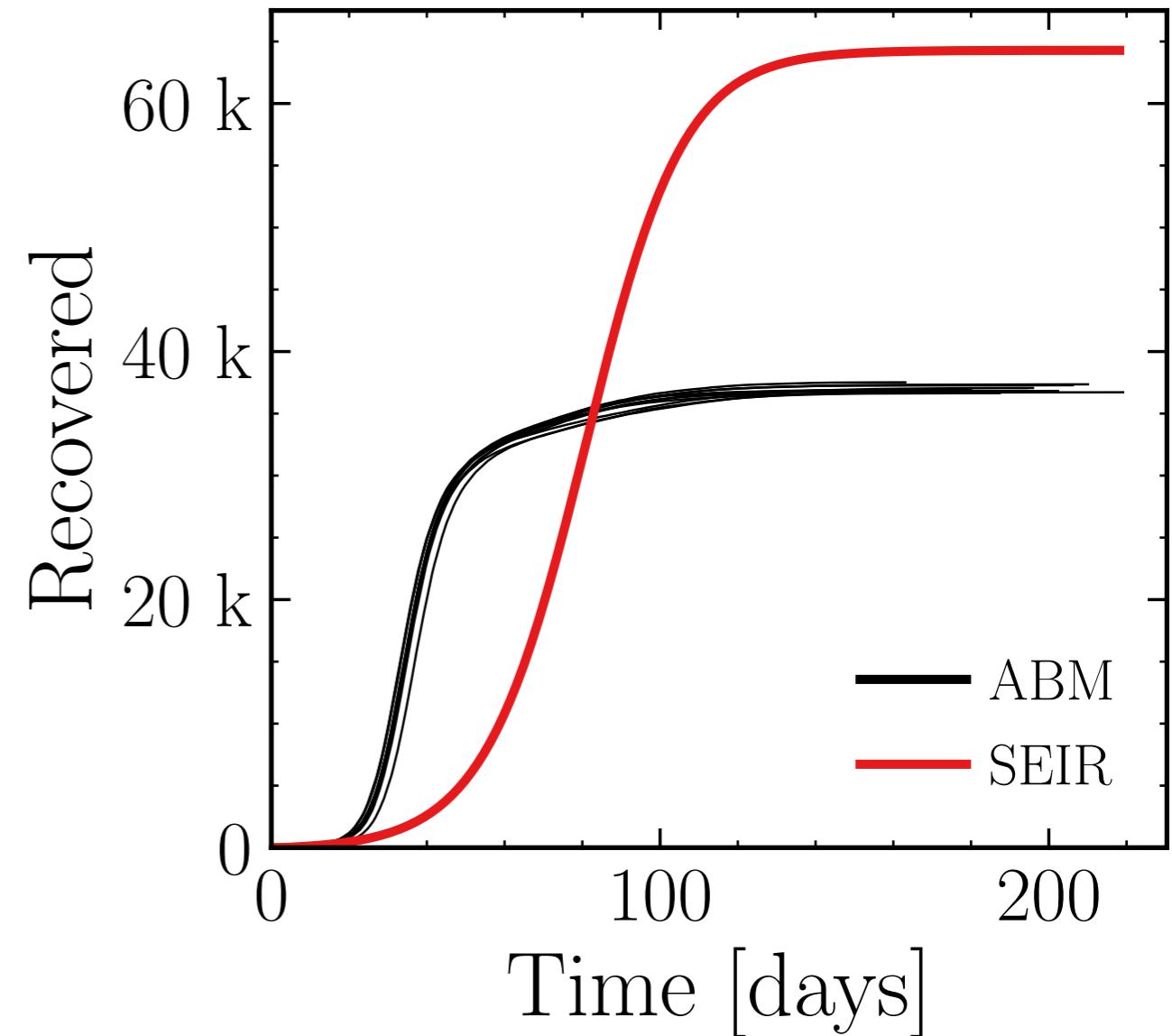


$N_{\text{tot}} = 100K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (7.03 \pm 0.29\%) \cdot 10^3$$

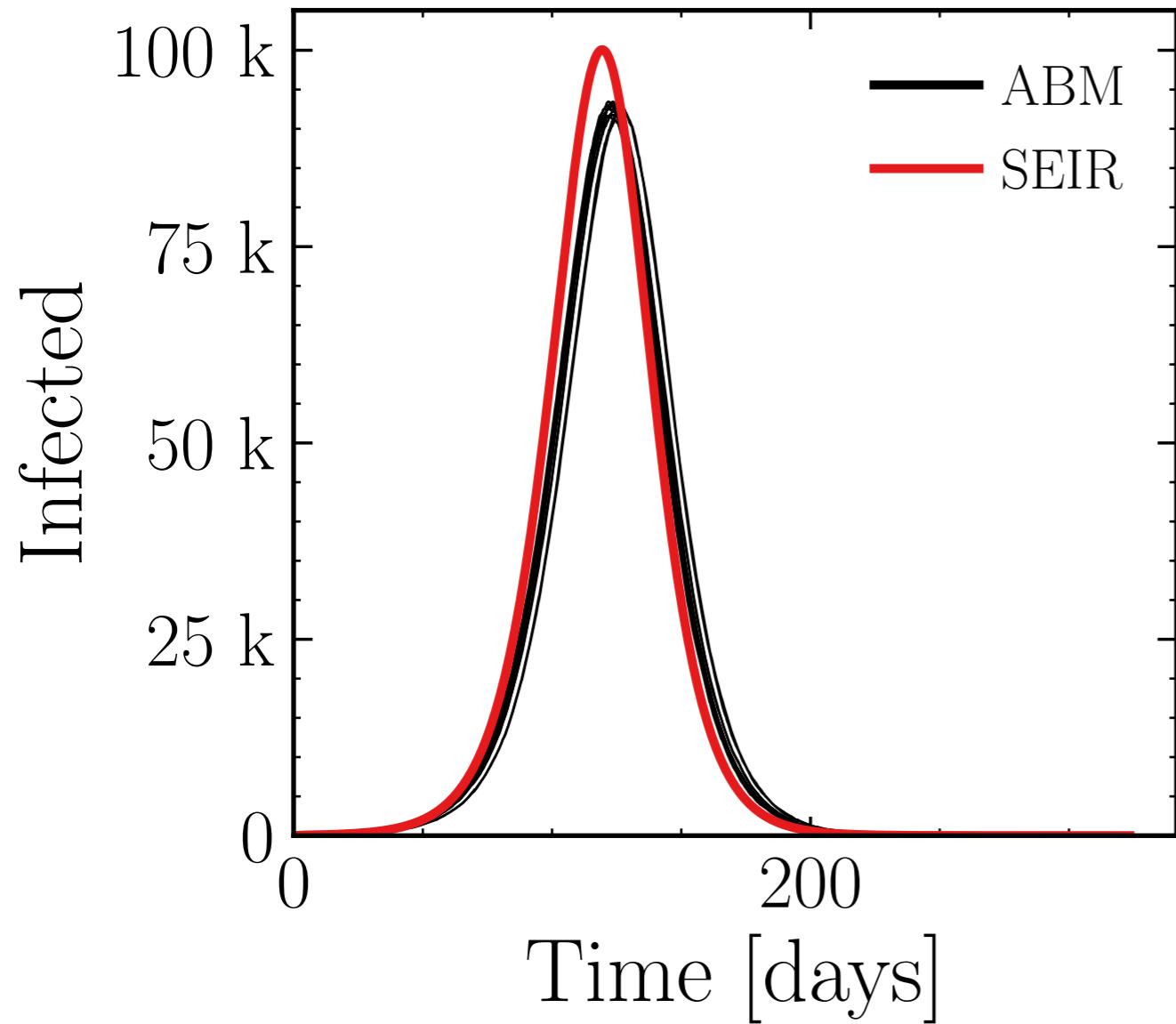


$$R_{\infty}^{\text{ABM}} = (37 \pm 0.24\%) \cdot 10^3$$

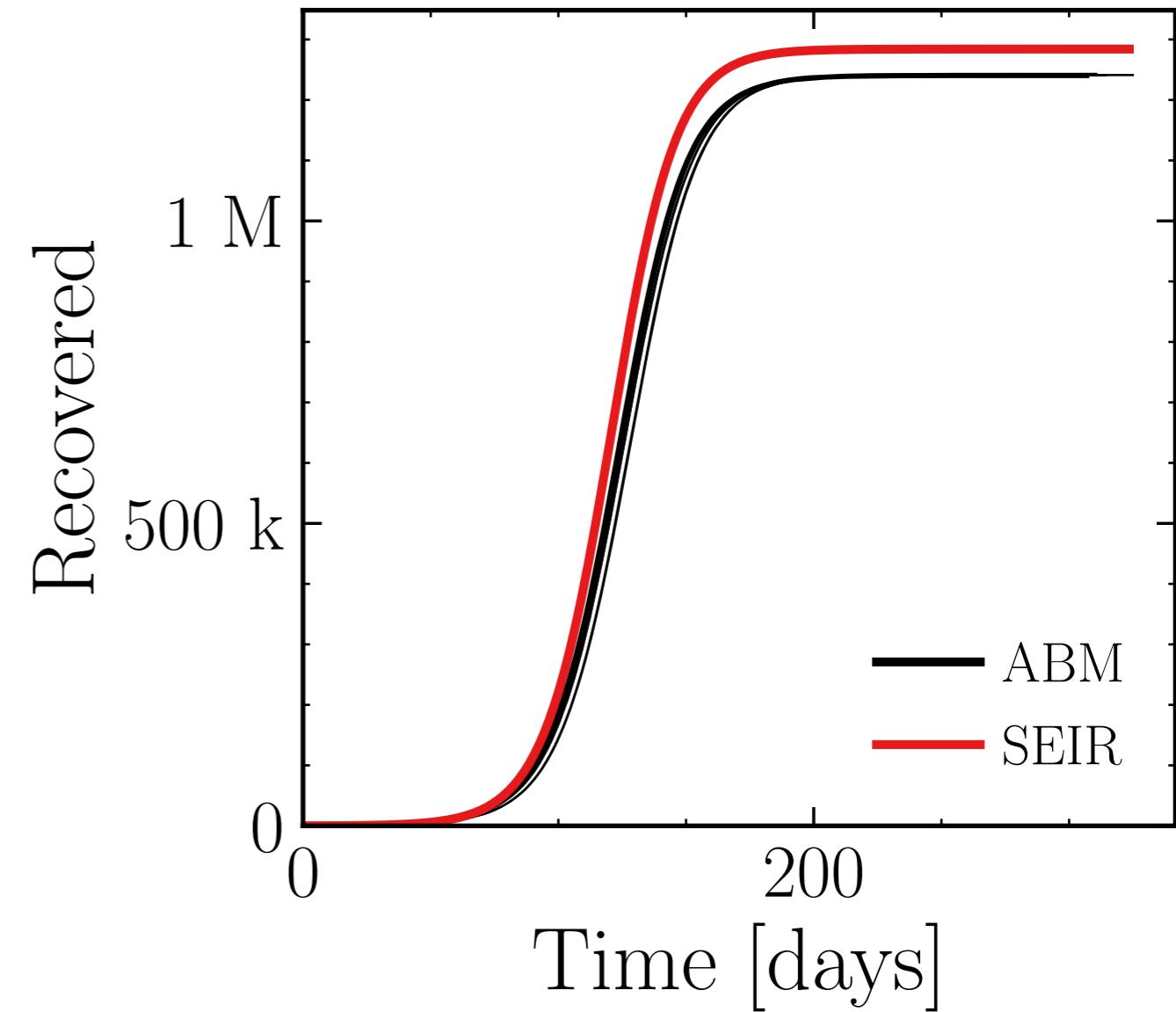


$N_{\text{tot}} = 2M$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (92.8 \pm 0.2\%) \cdot 10^3$$

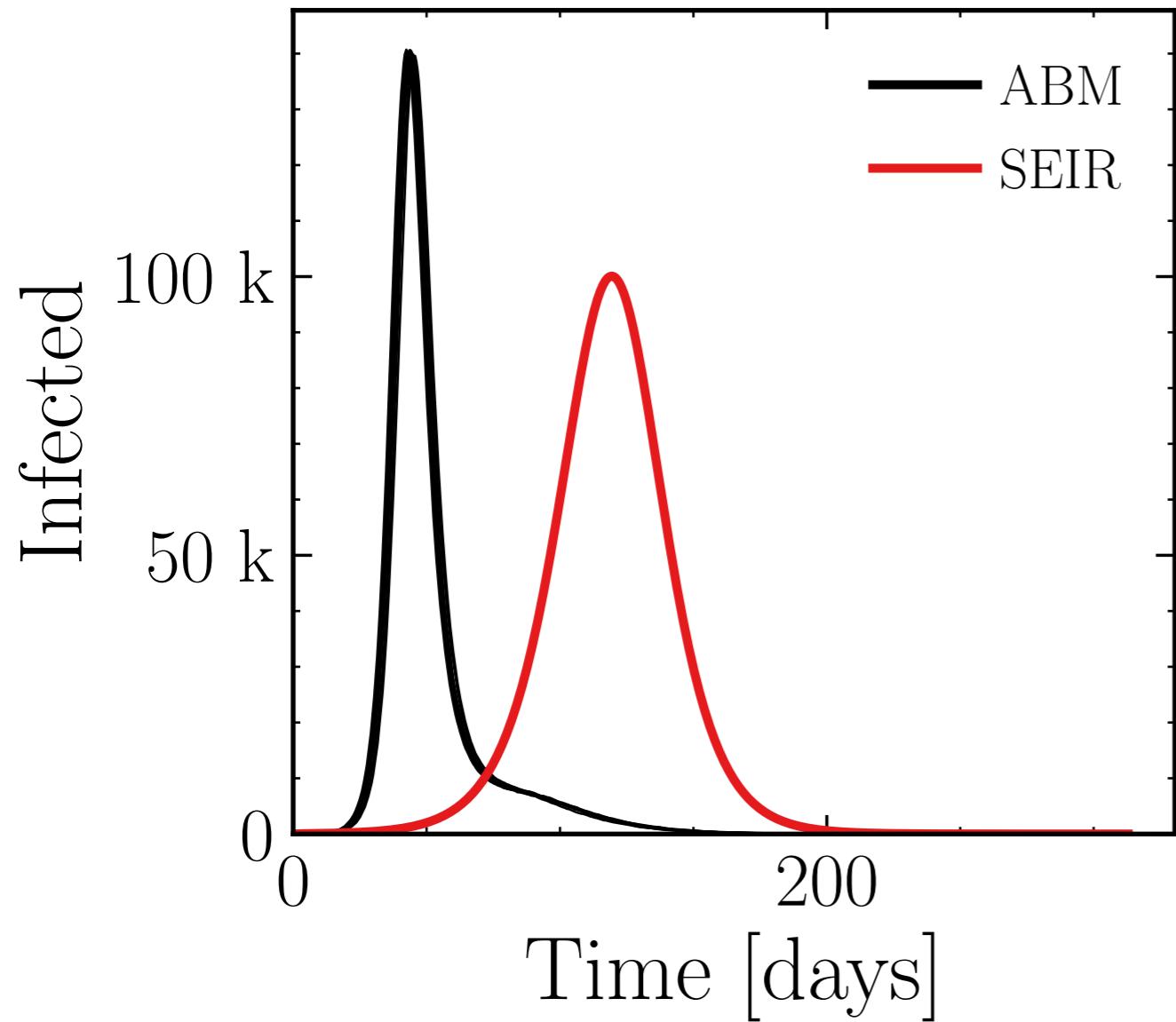


$$R_\infty^{\text{ABM}} = (1.2409 \pm 0.032\%) \cdot 10^6$$

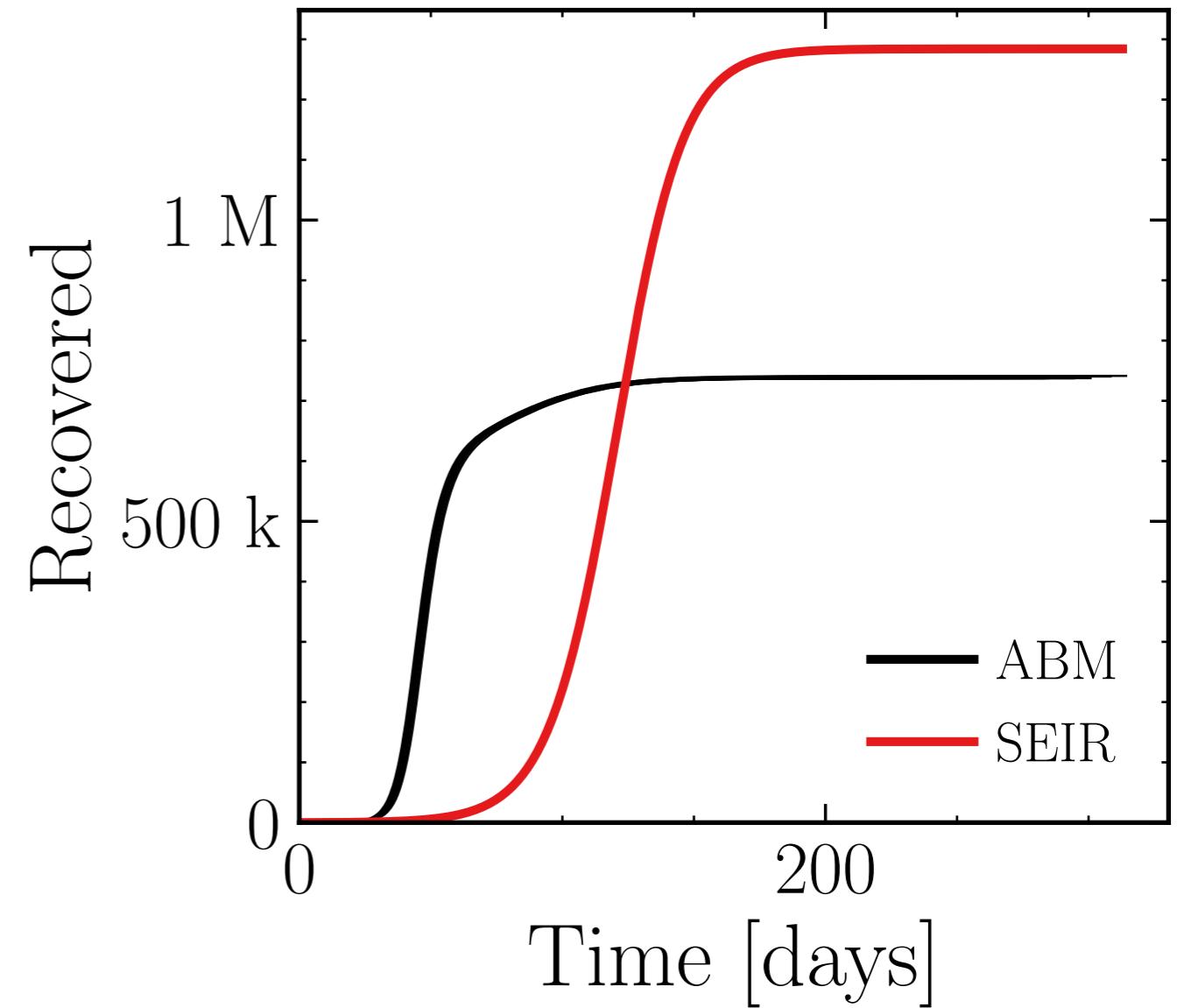


$N_{\text{tot}} = 2M$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\text{max}}^{\text{ABM}} = (140.1 \pm 0.085\%) \cdot 10^3$$

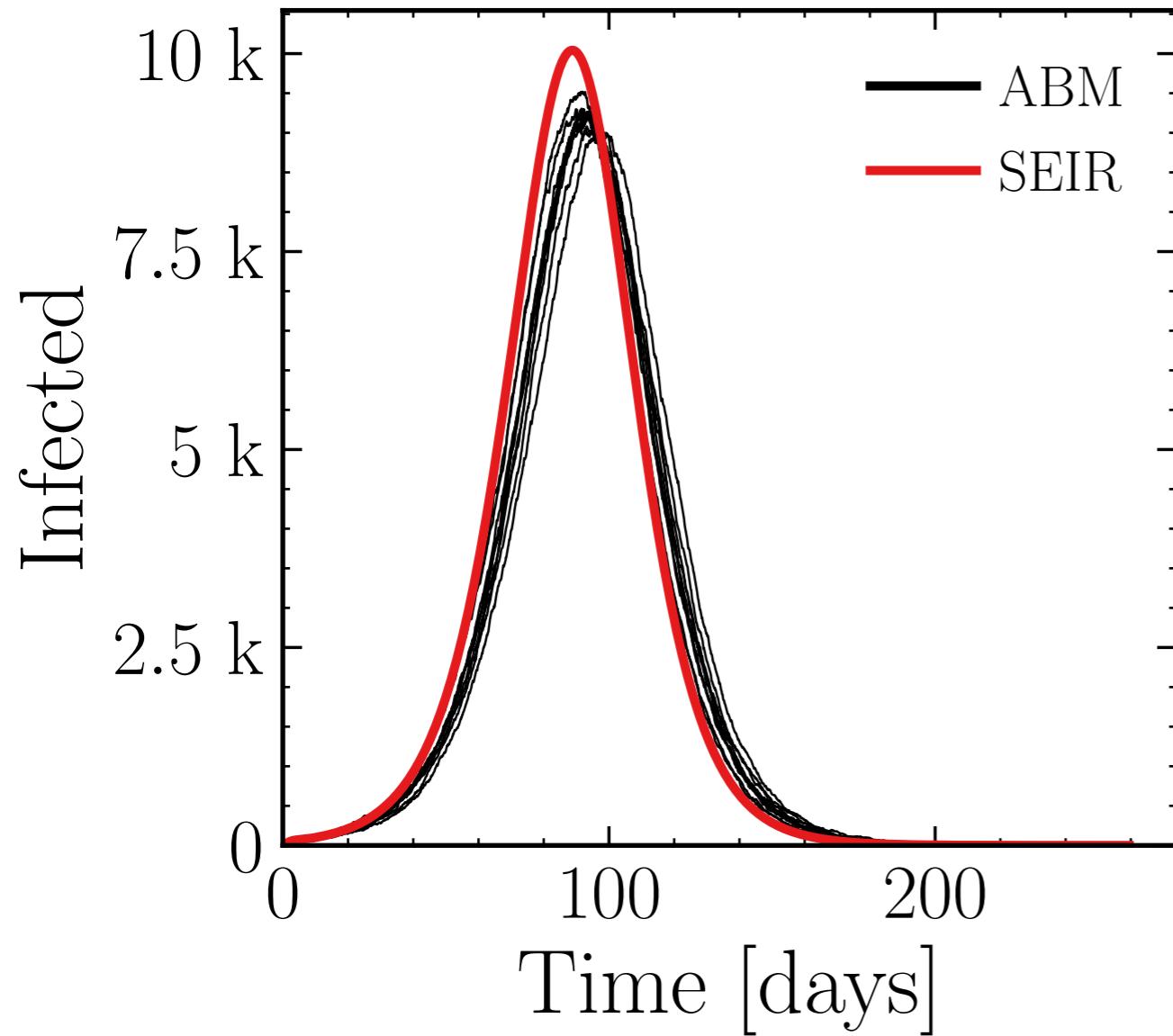


$$R_\infty^{\text{ABM}} = (738.4 \pm 0.058\%) \cdot 10^3$$

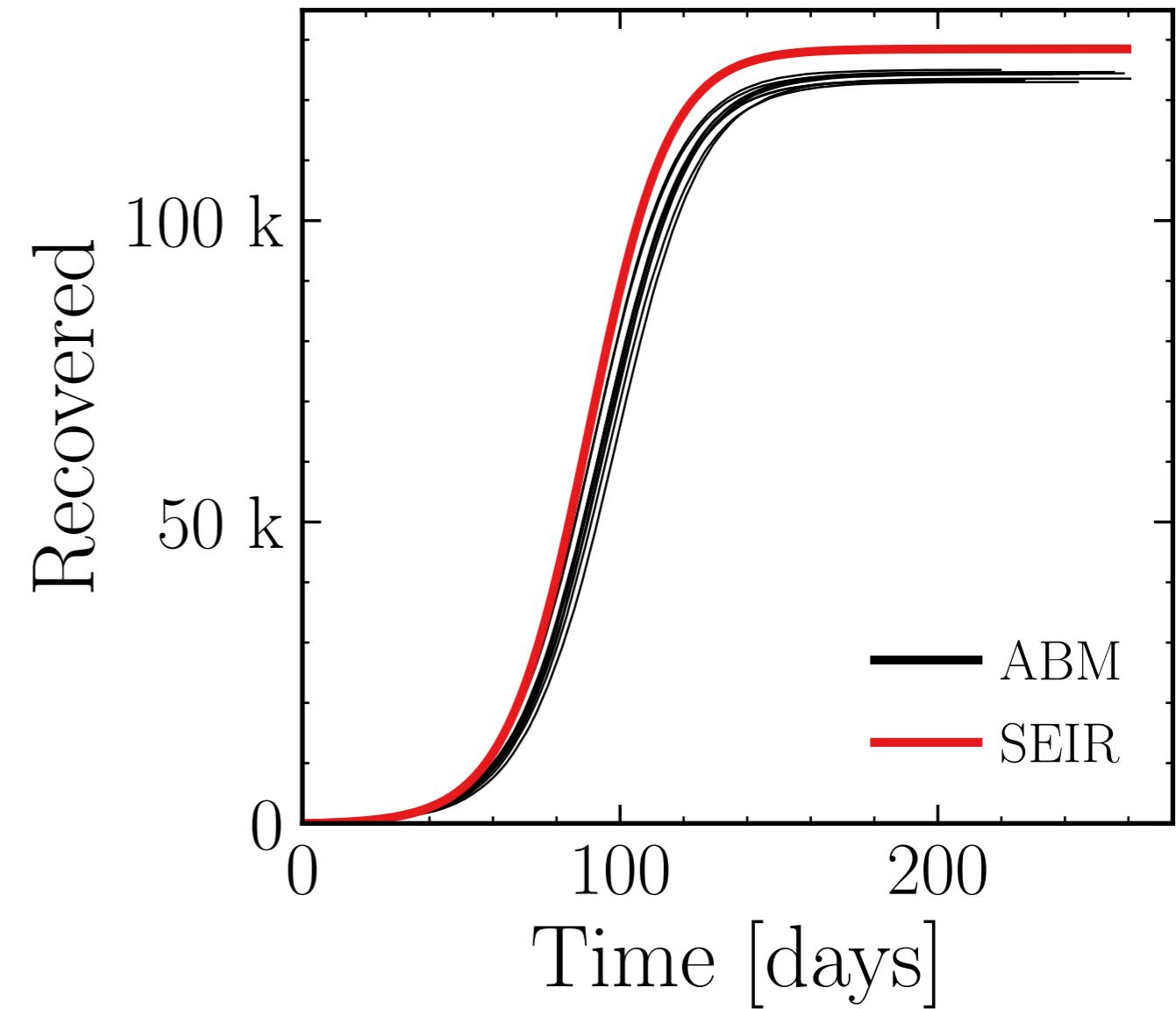


$N_{\text{tot}} = 200K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (9.24 \pm 0.48\%) \cdot 10^3$$



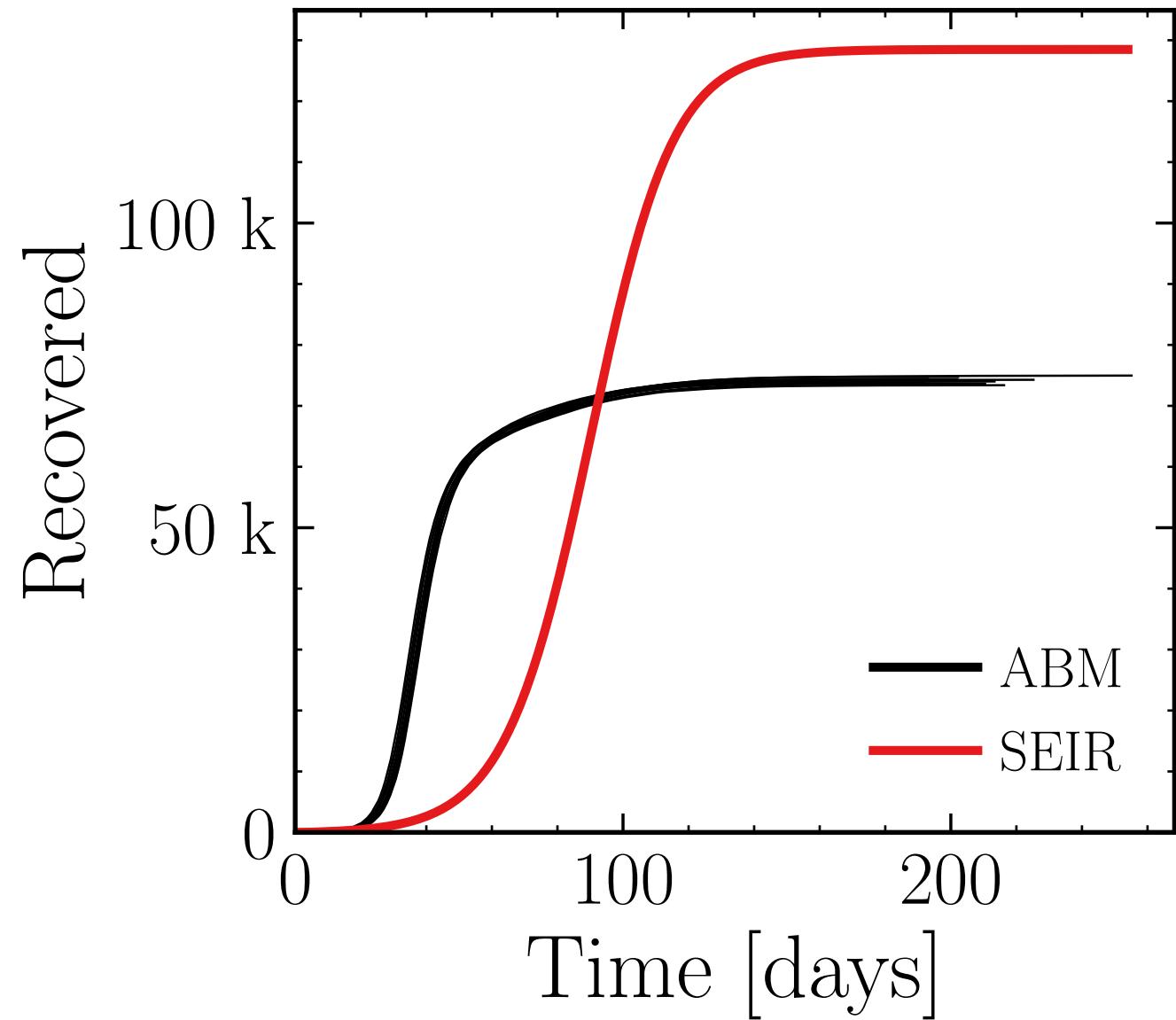
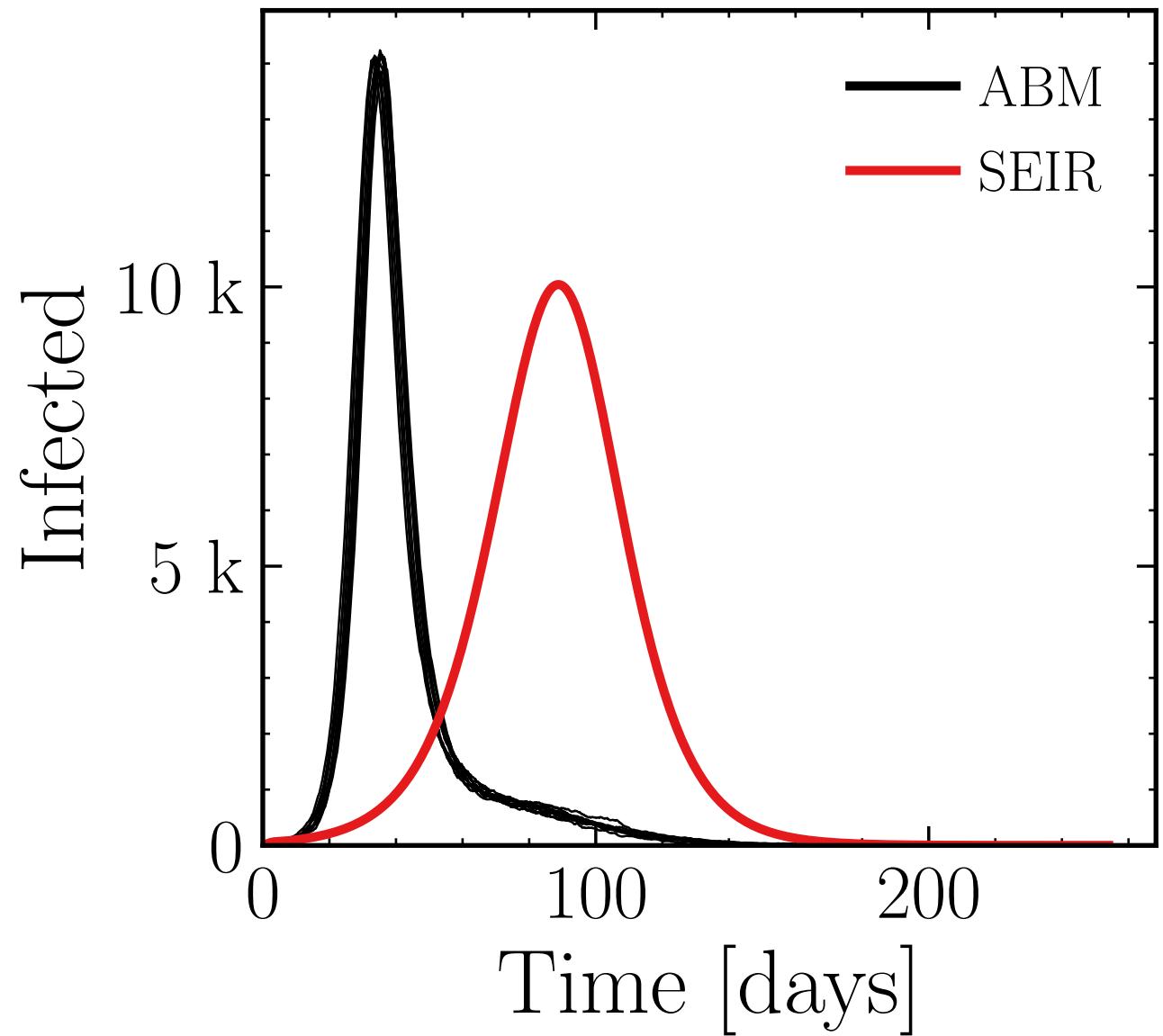
$$R_\infty^{\text{ABM}} = (124 \pm 0.16\%) \cdot 10^3$$



$N_{\text{tot}} = 200K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

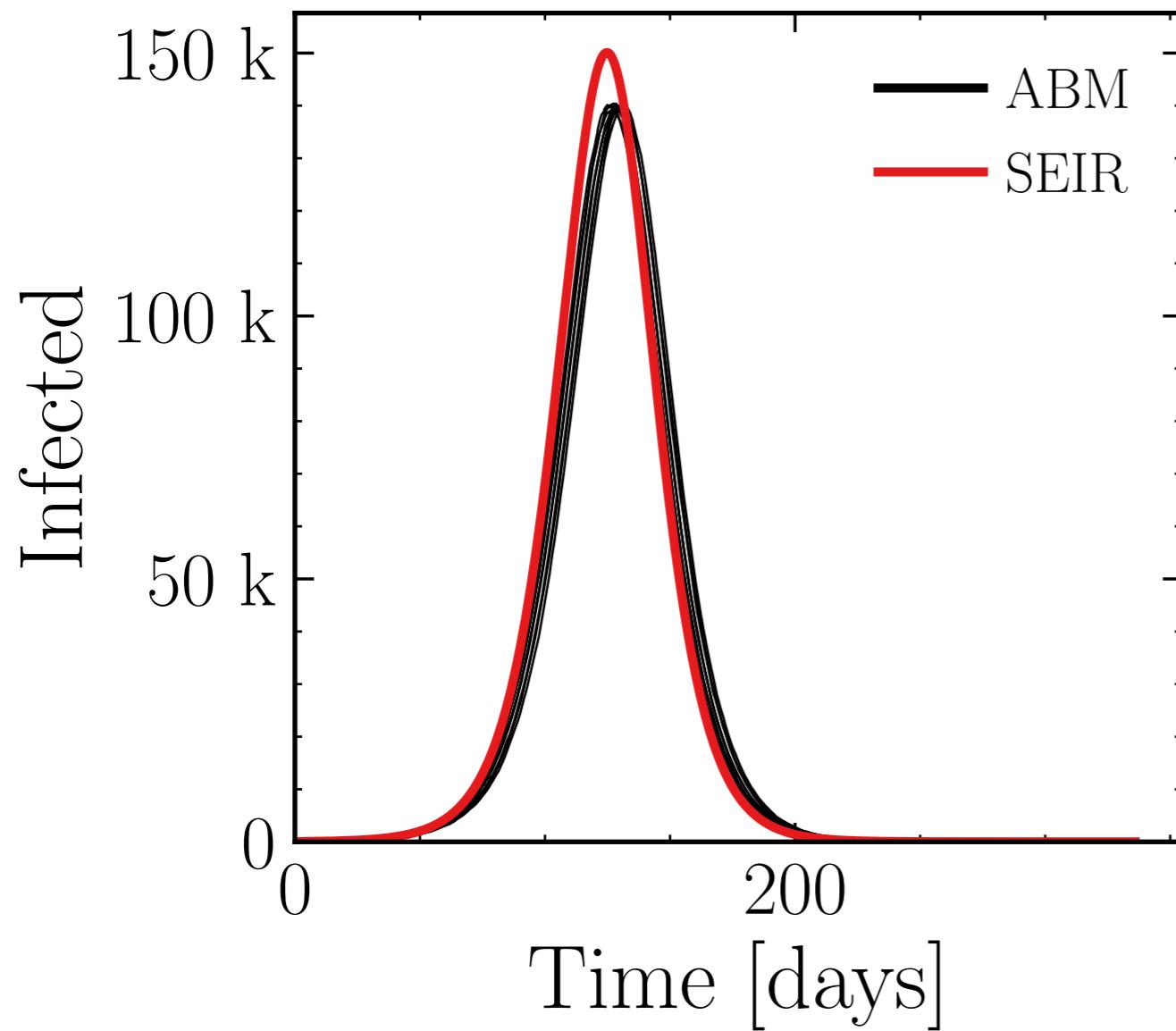
$$I_{\max}^{\text{ABM}} = (14.07 \pm 0.24\%) \cdot 10^3$$

$$R_\infty^{\text{ABM}} = (74.2 \pm 0.2\%) \cdot 10^3$$

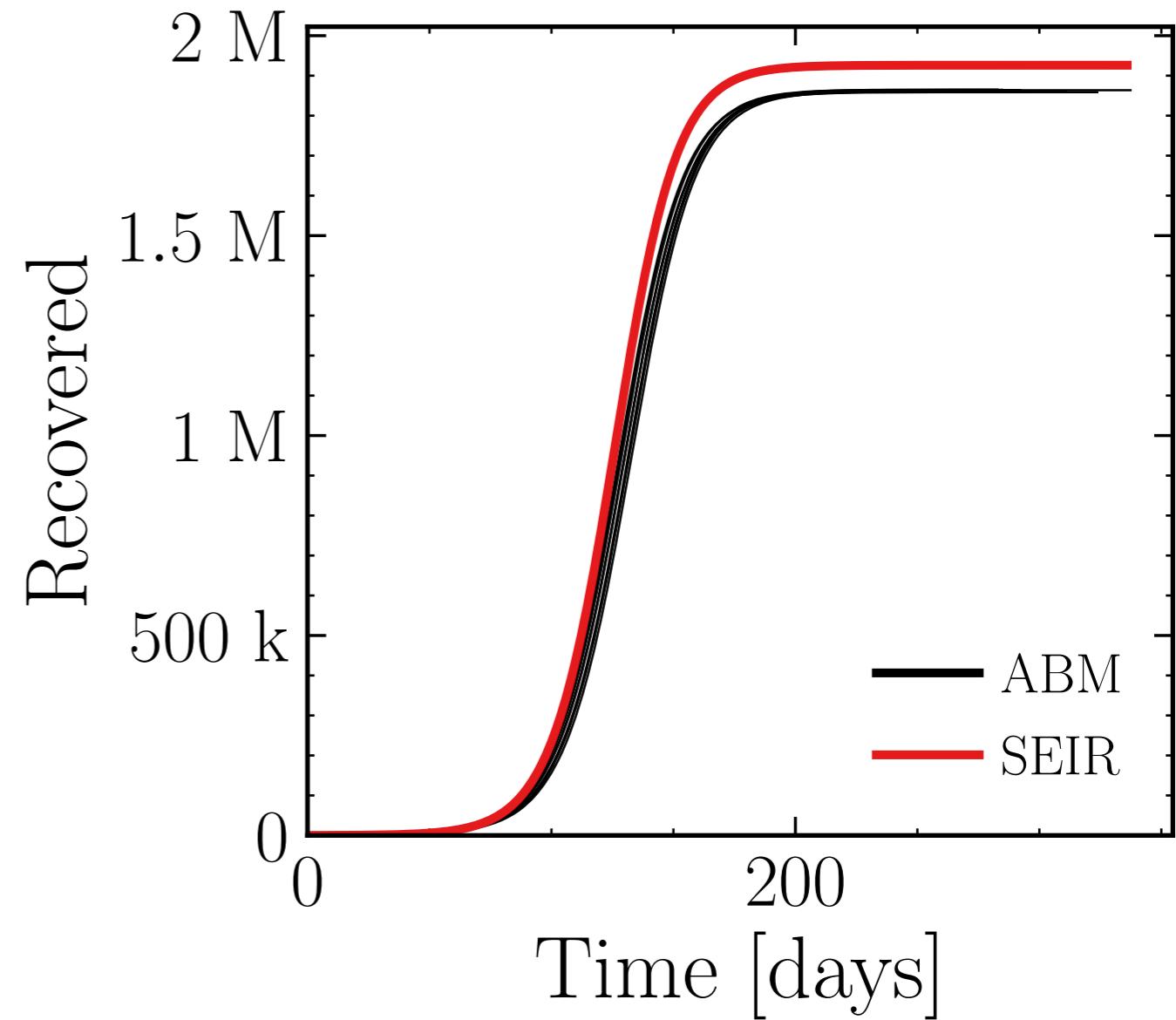


$N_{\text{tot}} = 3M$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (139.8 \pm 0.1\%) \cdot 10^3$$

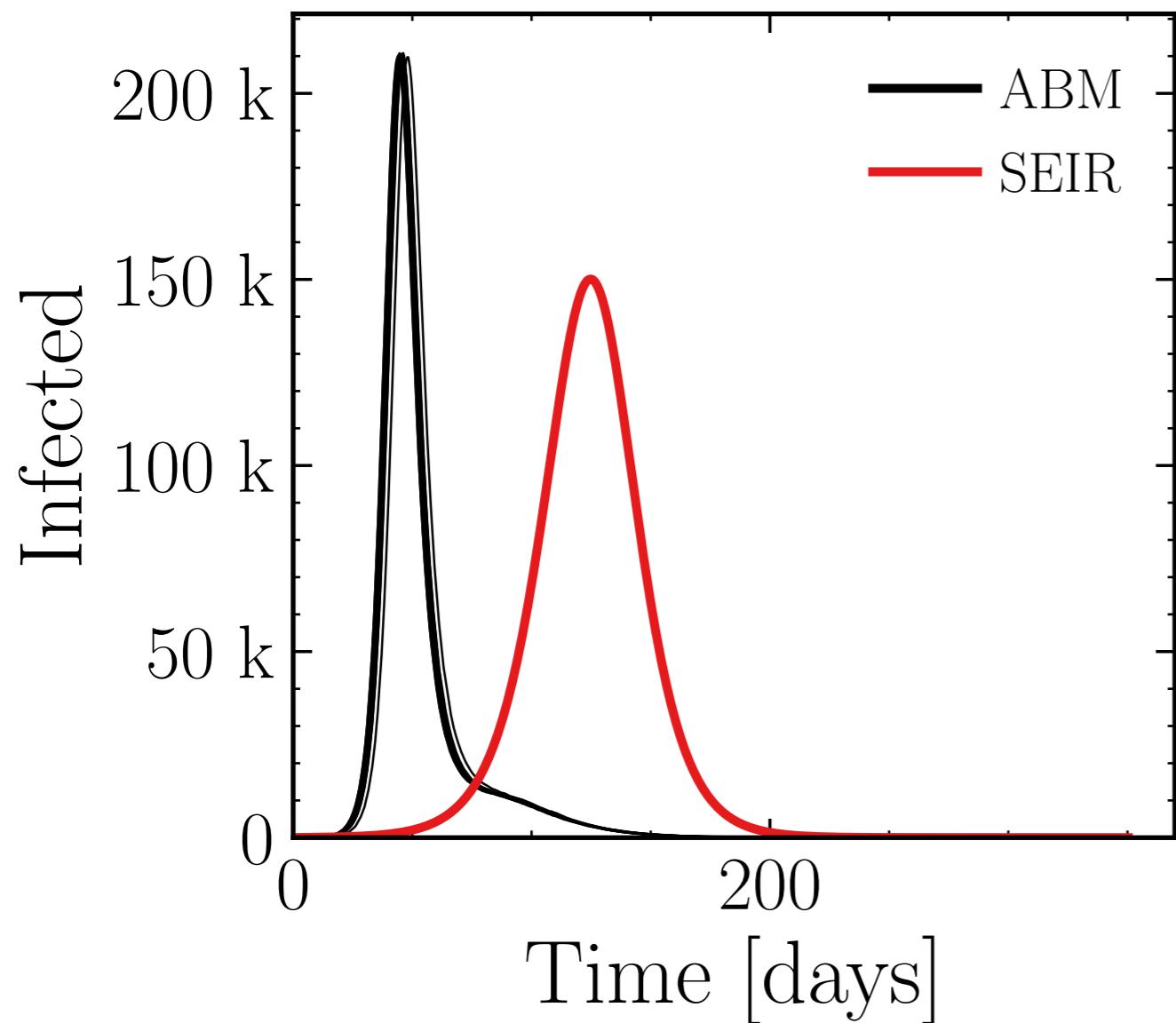


$$R_{\infty}^{\text{ABM}} = (1.862 \pm 0.037\%) \cdot 10^6$$

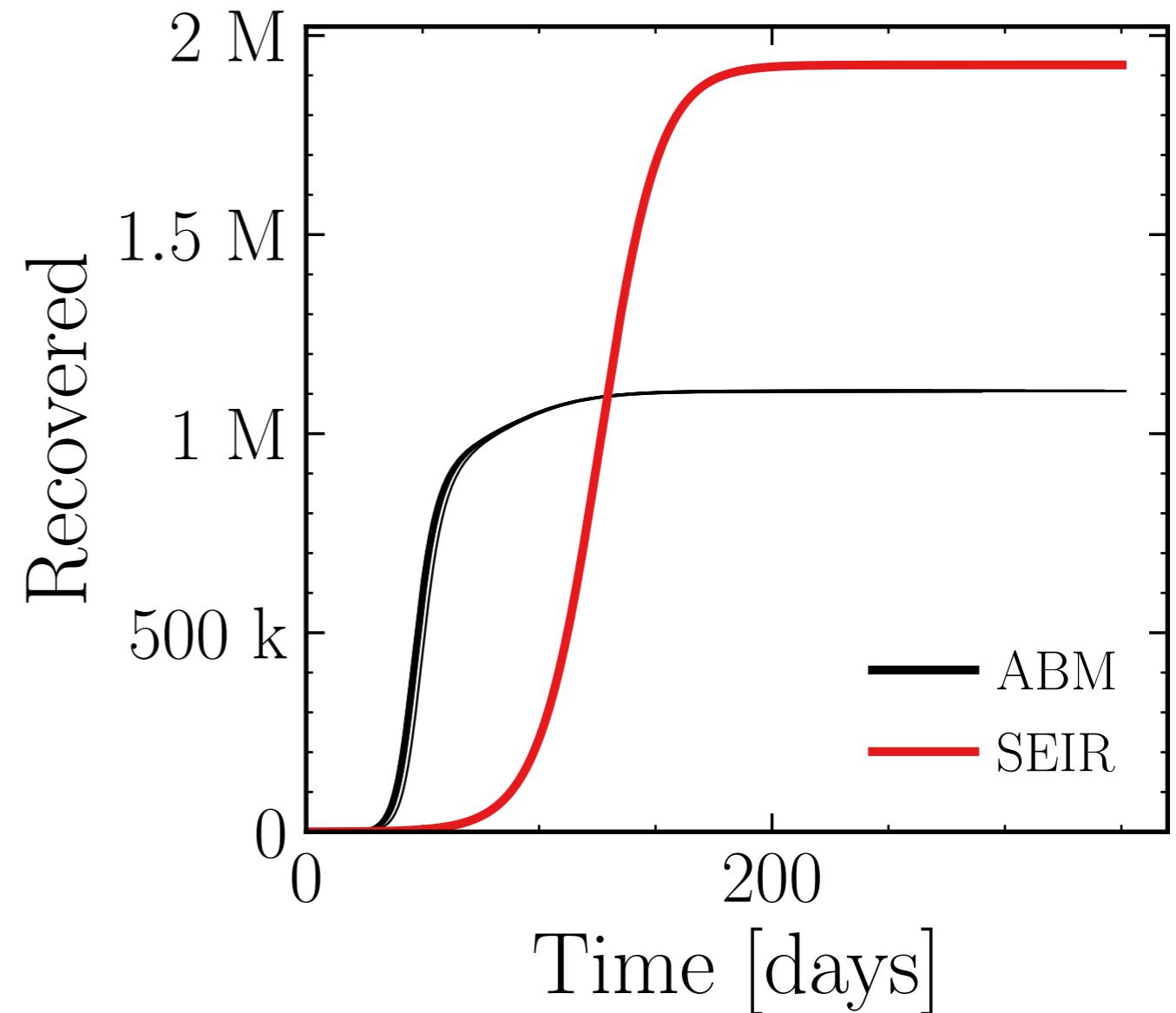


$N_{\text{tot}} = 3M$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (210 \pm 0.08\%) \cdot 10^3$$

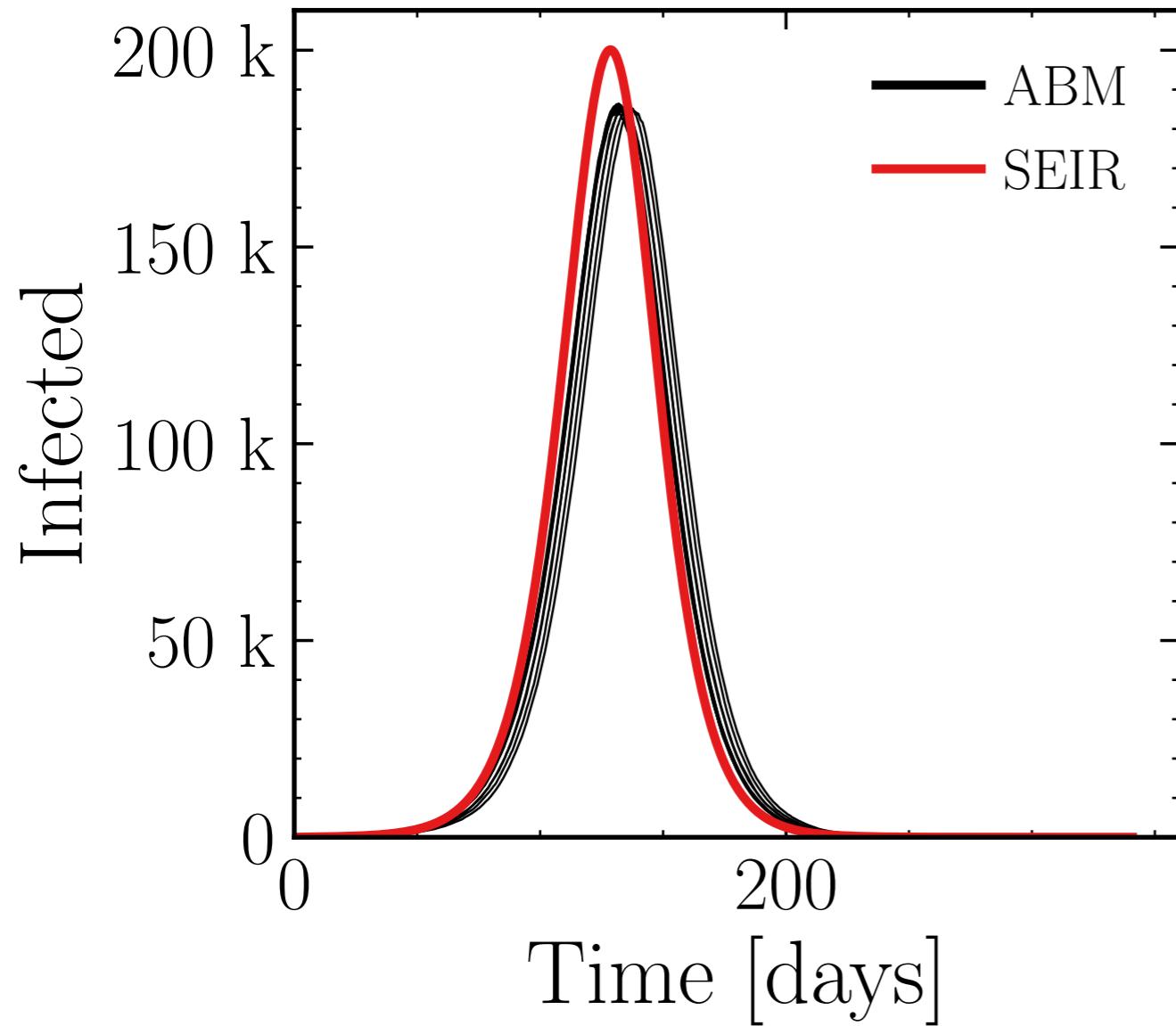


$$R_\infty^{\text{ABM}} = (1.1075 \pm 0.033\%) \cdot 10^6$$

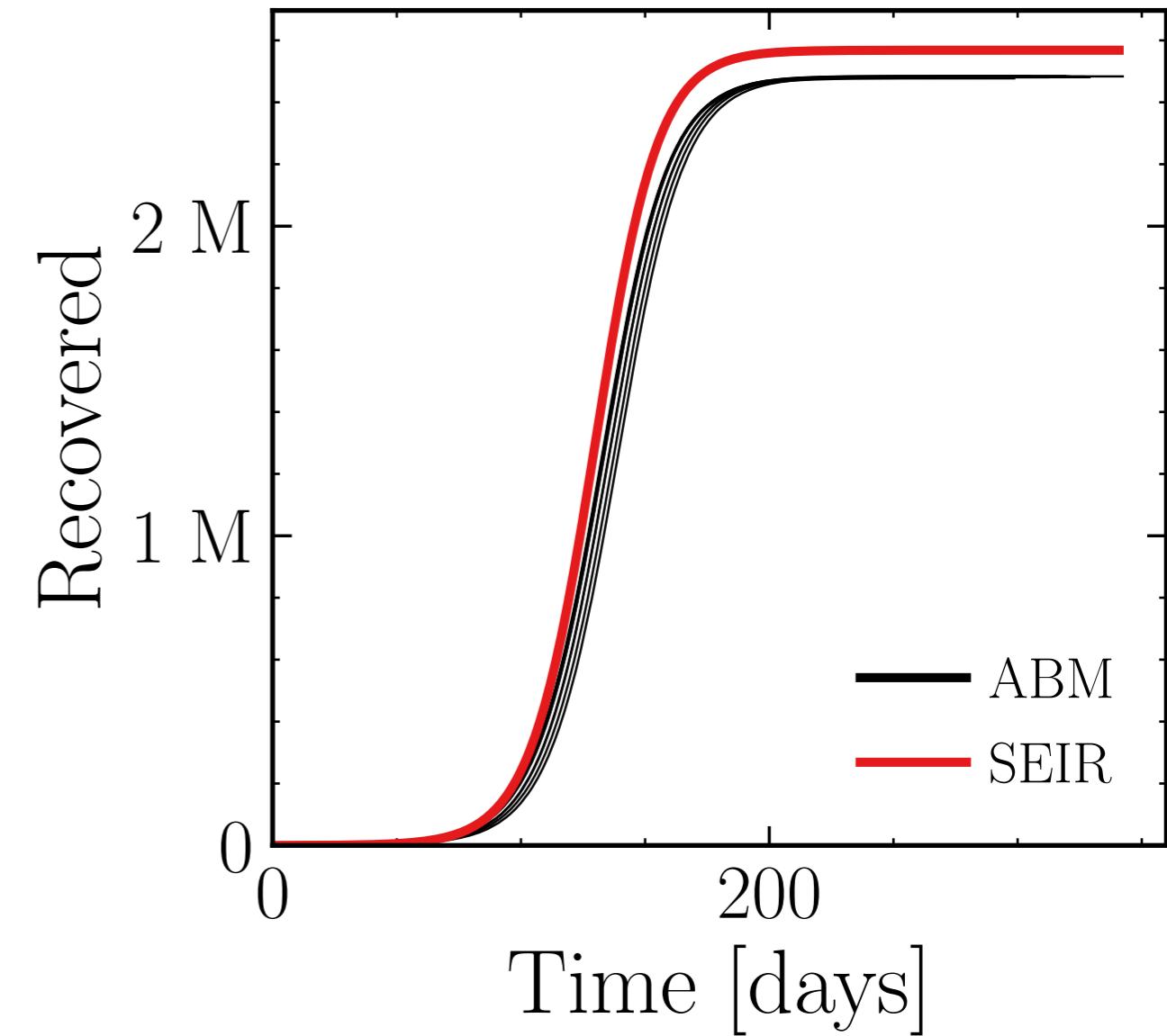


$N_{\text{tot}} = 4M$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\text{max}}^{\text{ABM}} = (185.7 \pm 0.087\%) \cdot 10^3$$



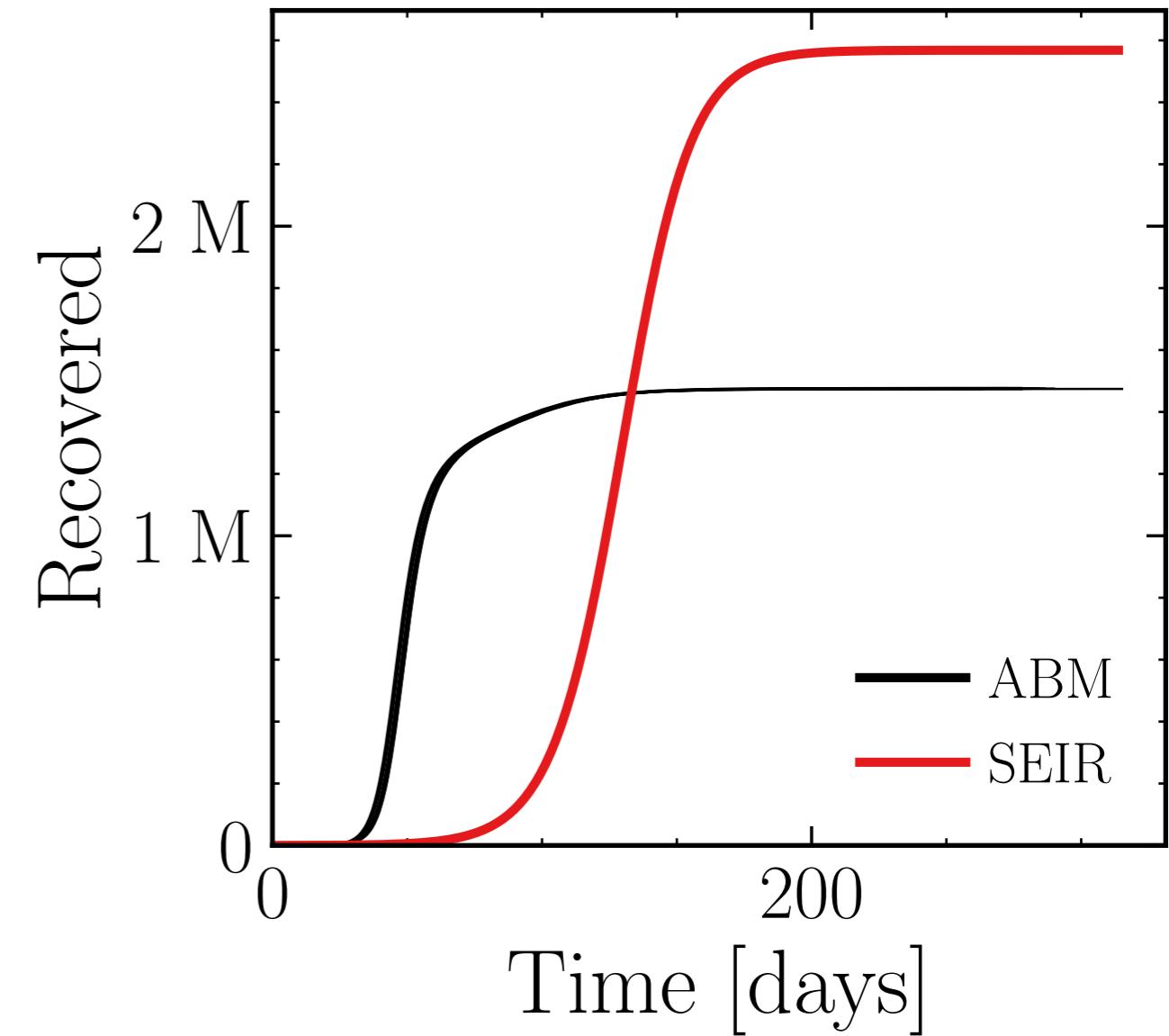
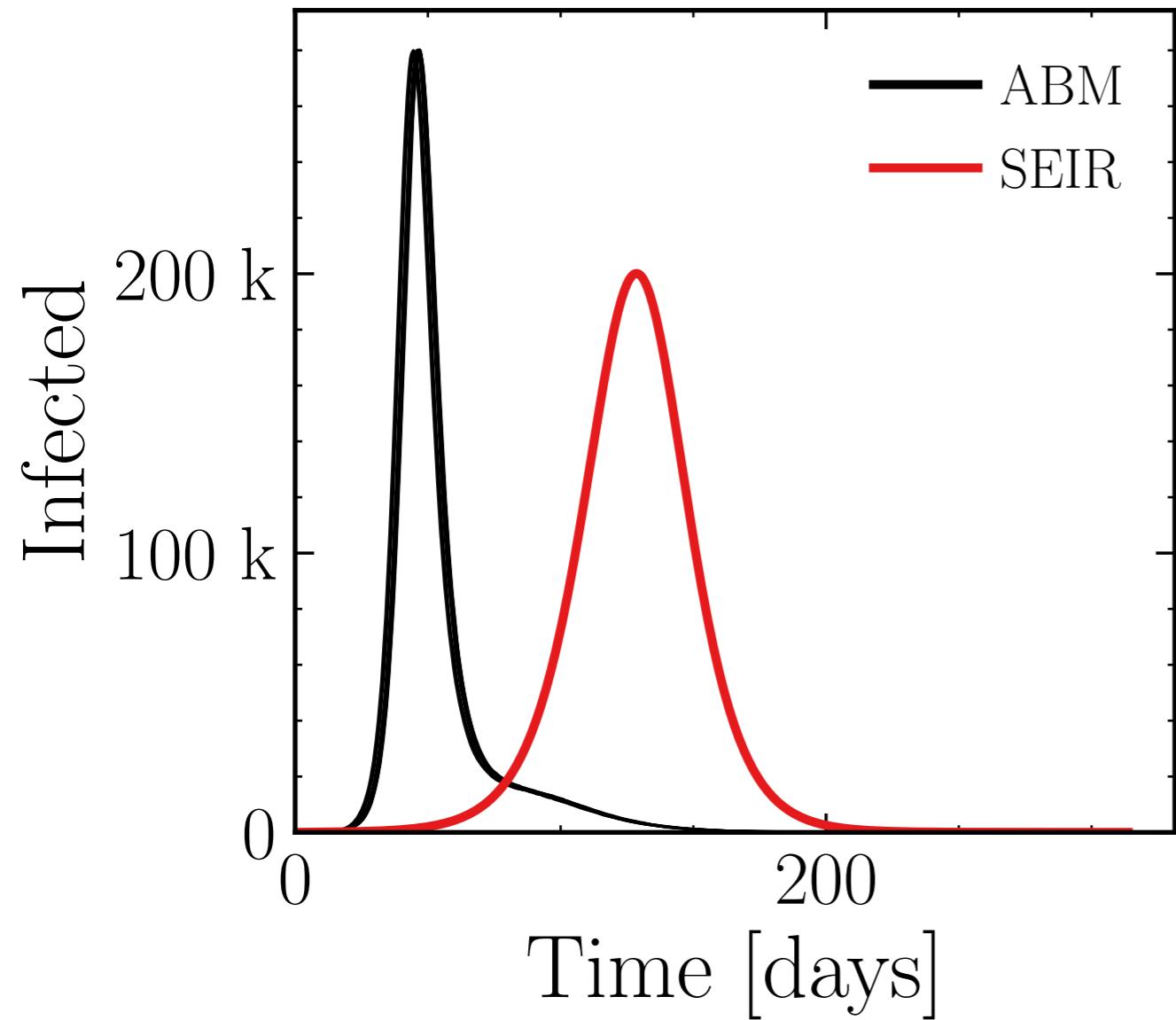
$$R_\infty^{\text{ABM}} = (2.4822 \pm 0.028\%) \cdot 10^6$$



$N_{\text{tot}} = 4M$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (280 \pm 0.033\%) \cdot 10^3$$

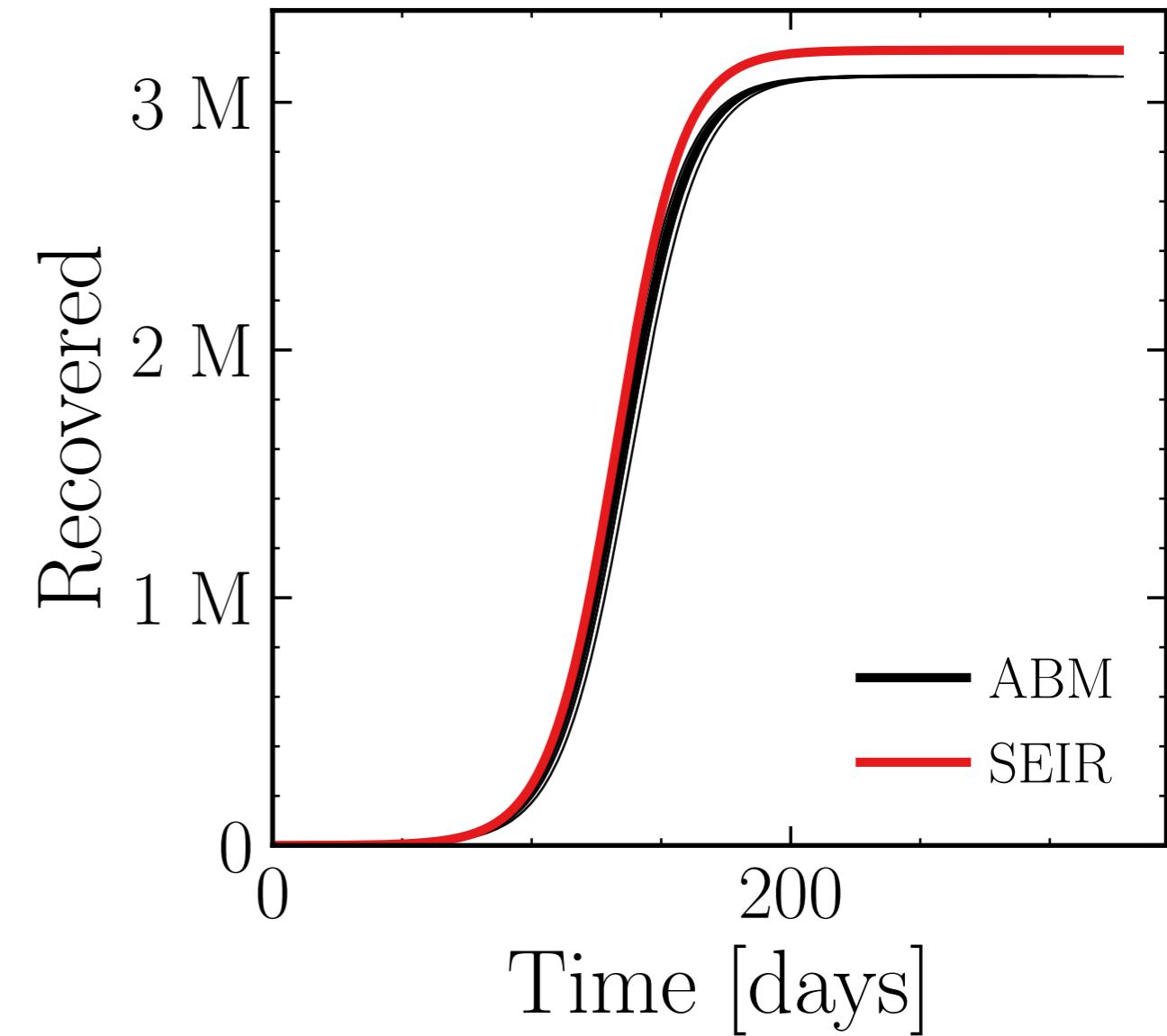
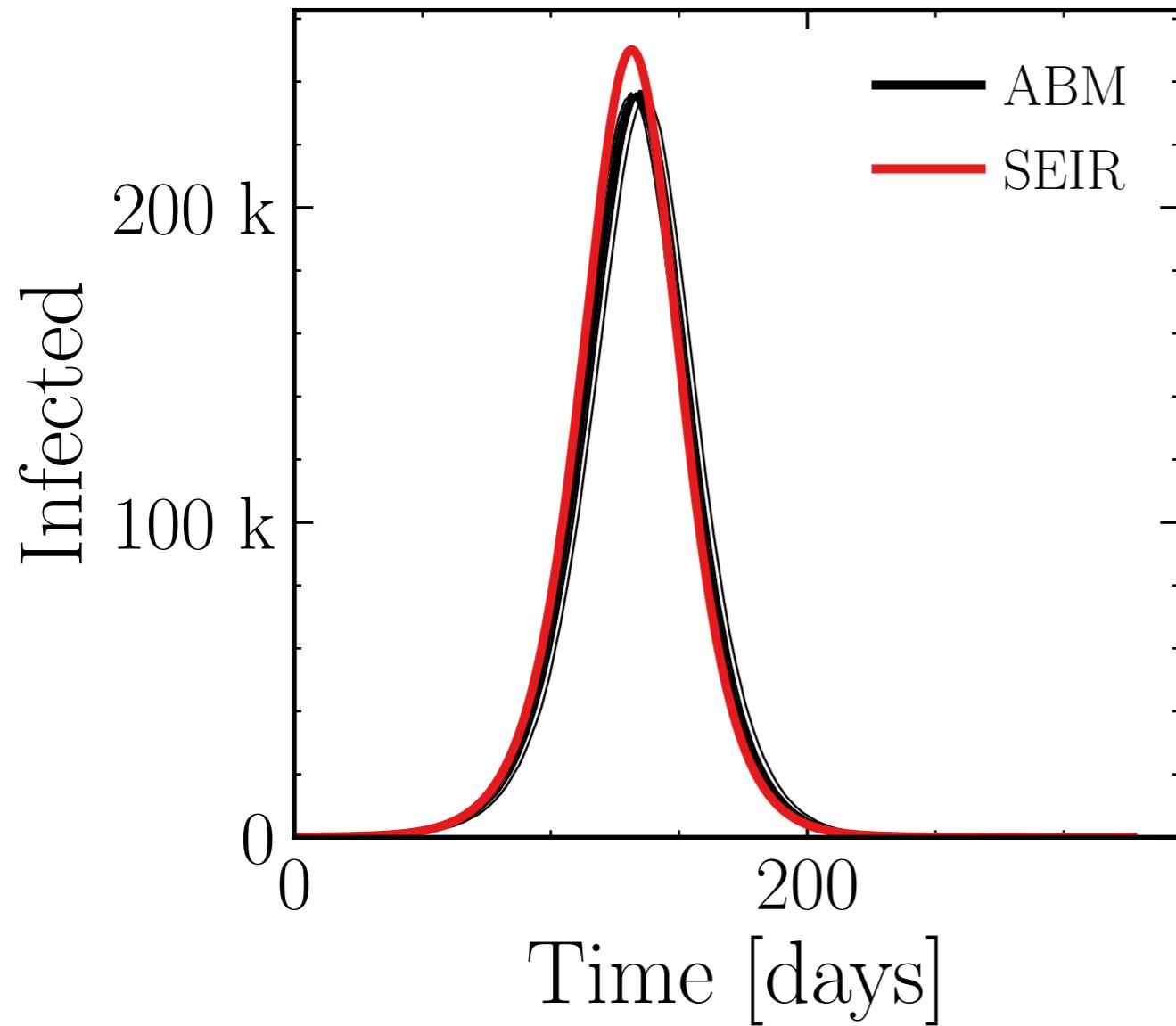
$$R_\infty^{\text{ABM}} = (1.4754 \pm 0.023\%) \cdot 10^6$$



$N_{\text{tot}} = 5M$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

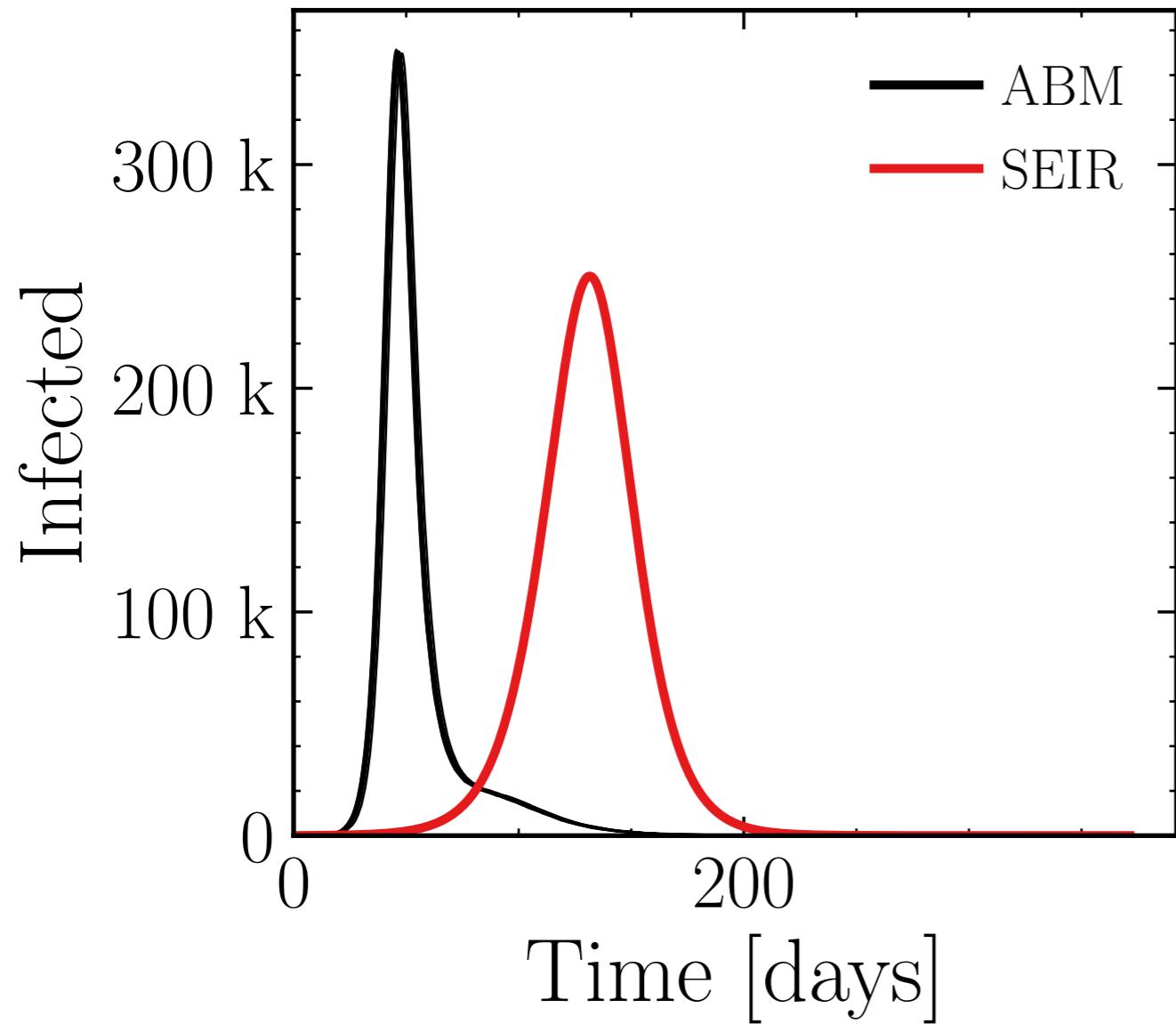
$$I_{\text{max}}^{\text{ABM}} = (235.9 \pm 0.085\%) \cdot 10^3$$

$$R_\infty^{\text{ABM}} = (3.1057 \pm 0.019\%) \cdot 10^6$$

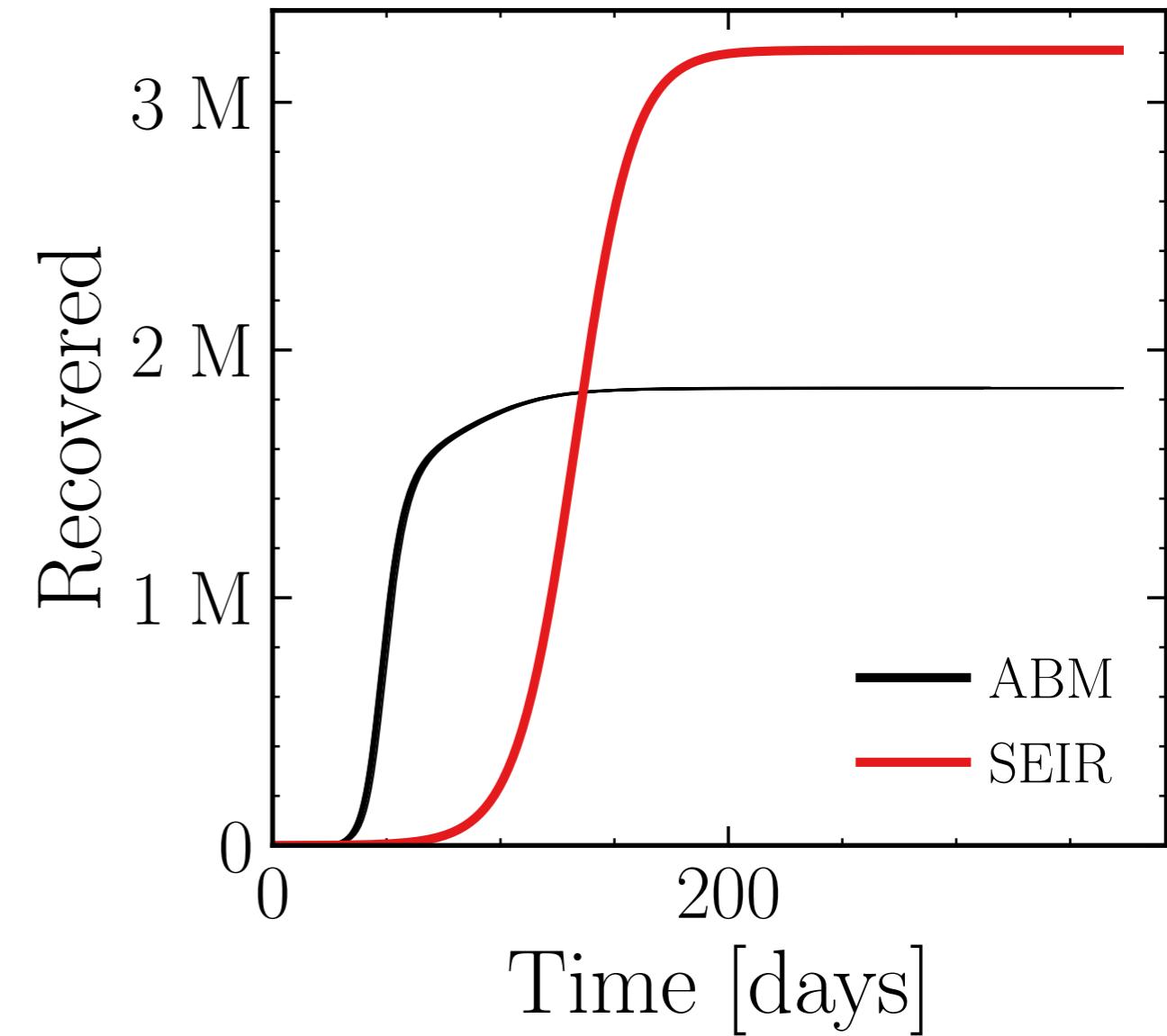


$N_{\text{tot}} = 5M$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (350.2 \pm 0.059\%) \cdot 10^3$$



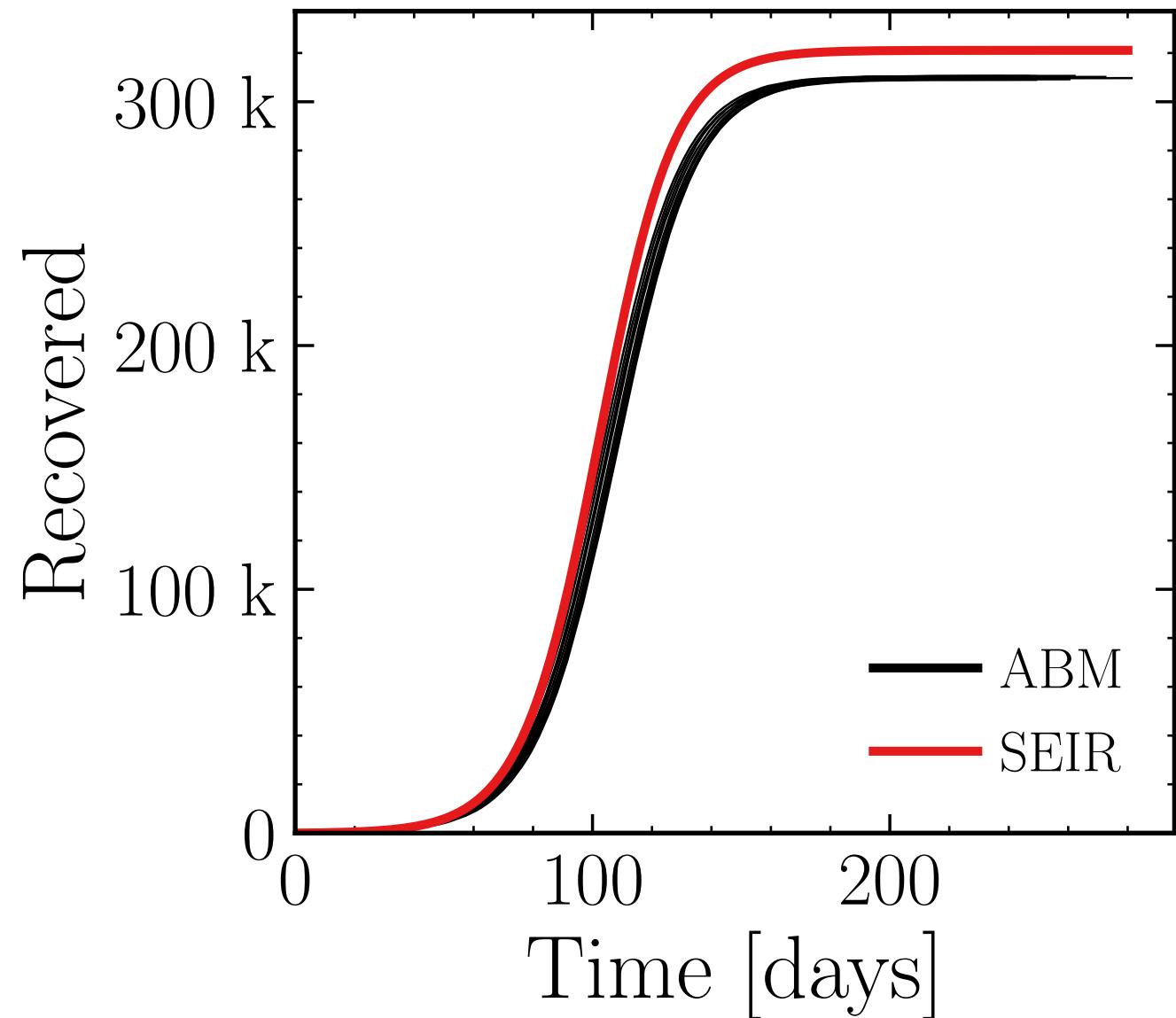
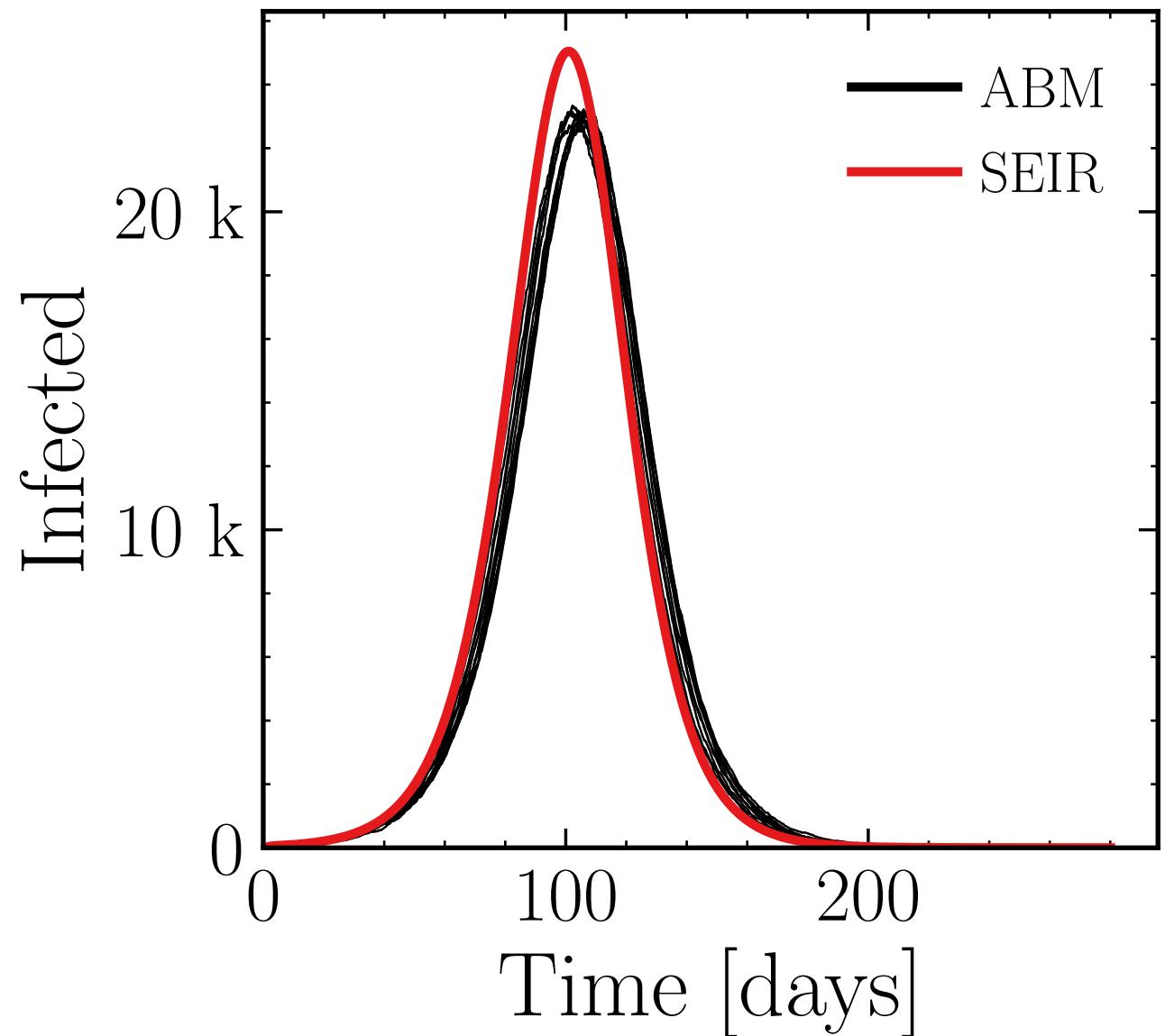
$$R_\infty^{\text{ABM}} = (1.8457 \pm 0.017\%) \cdot 10^6$$



$N_{\text{tot}} = 500K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

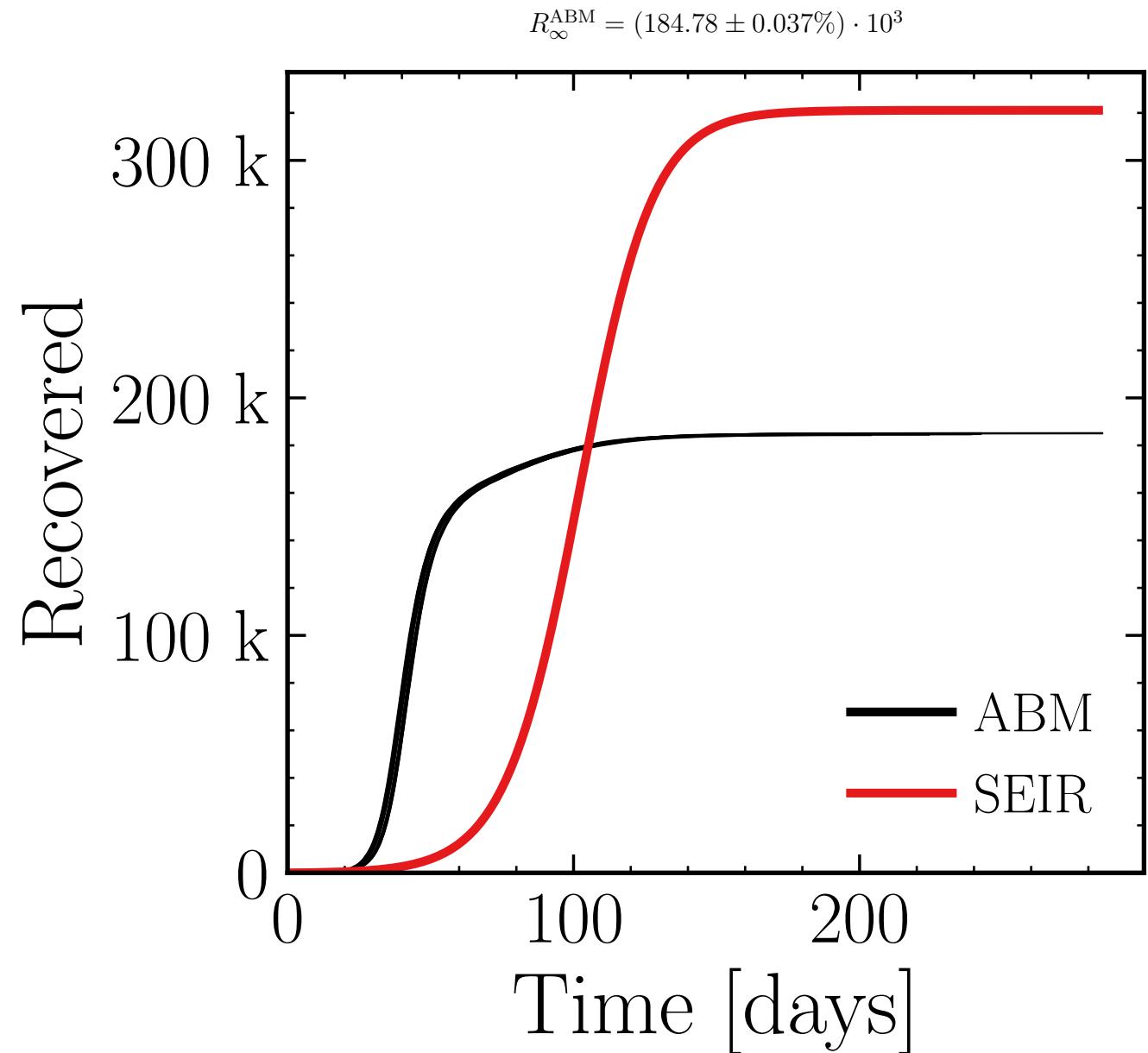
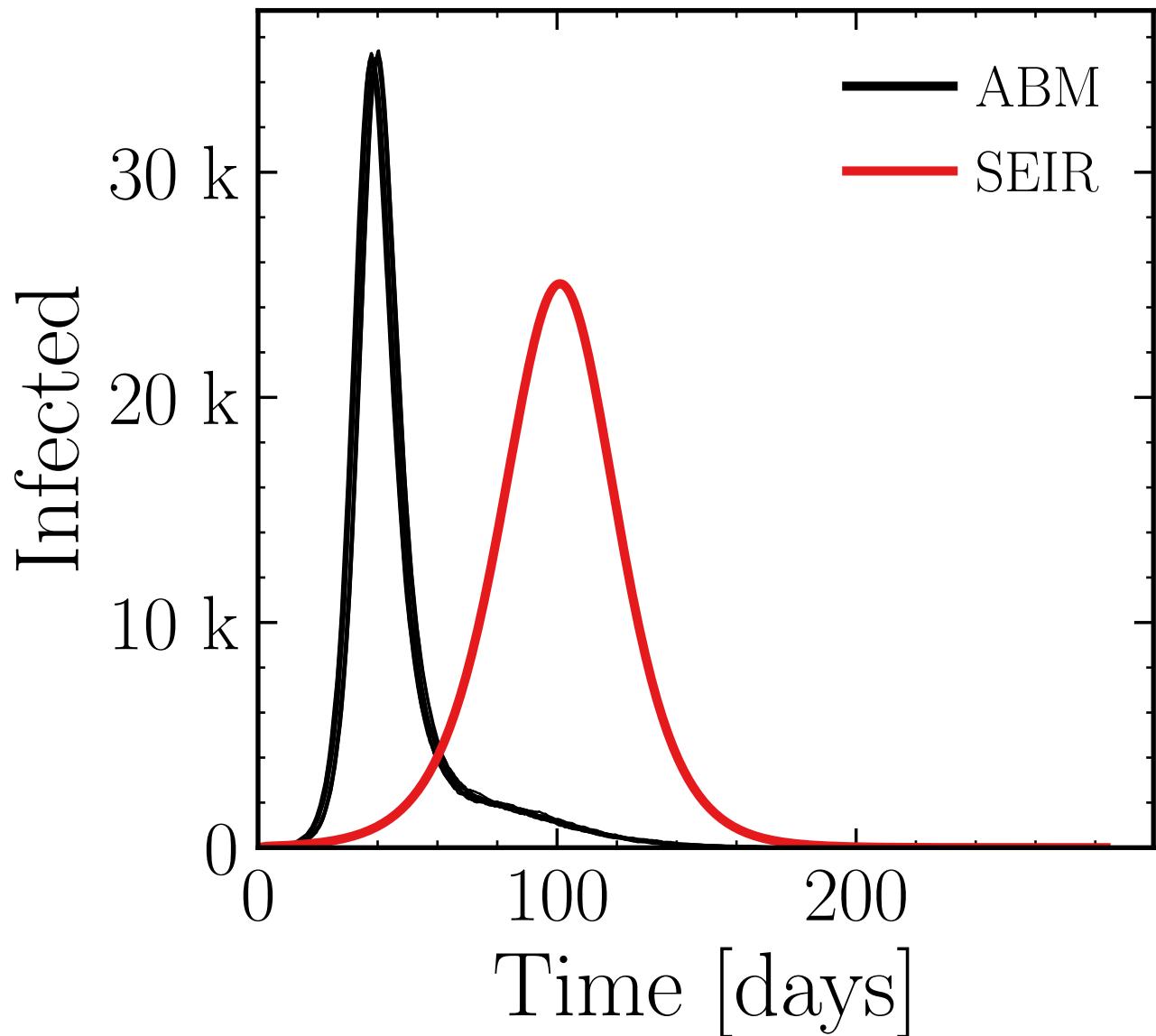
$$I_{\max}^{\text{ABM}} = (23.06 \pm 0.23\%) \cdot 10^3$$

$$R_\infty^{\text{ABM}} = (310 \pm 0.062\%) \cdot 10^3$$



$N_{\text{tot}} = 500K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (35.13 \pm 0.18\%) \cdot 10^3$$

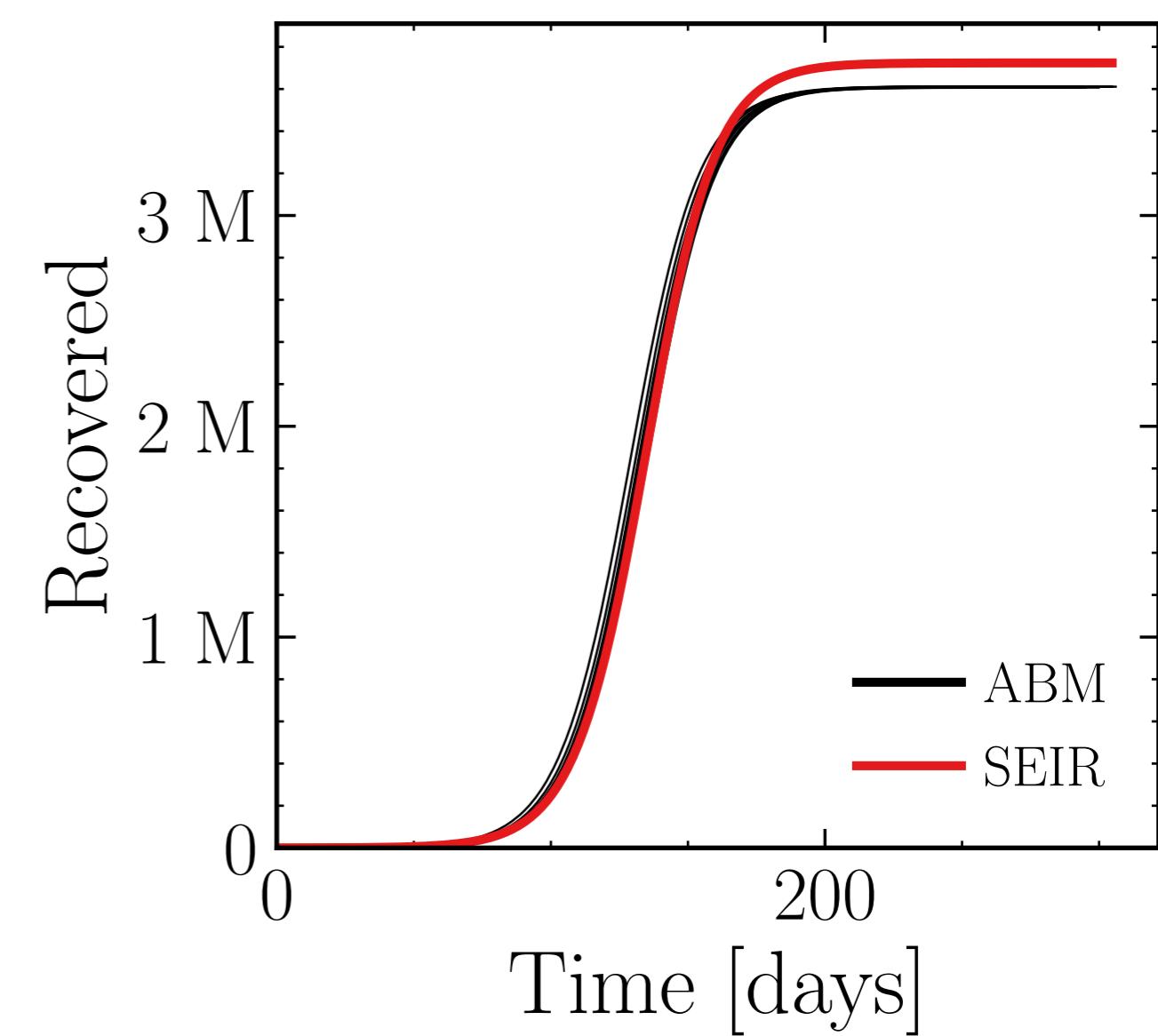
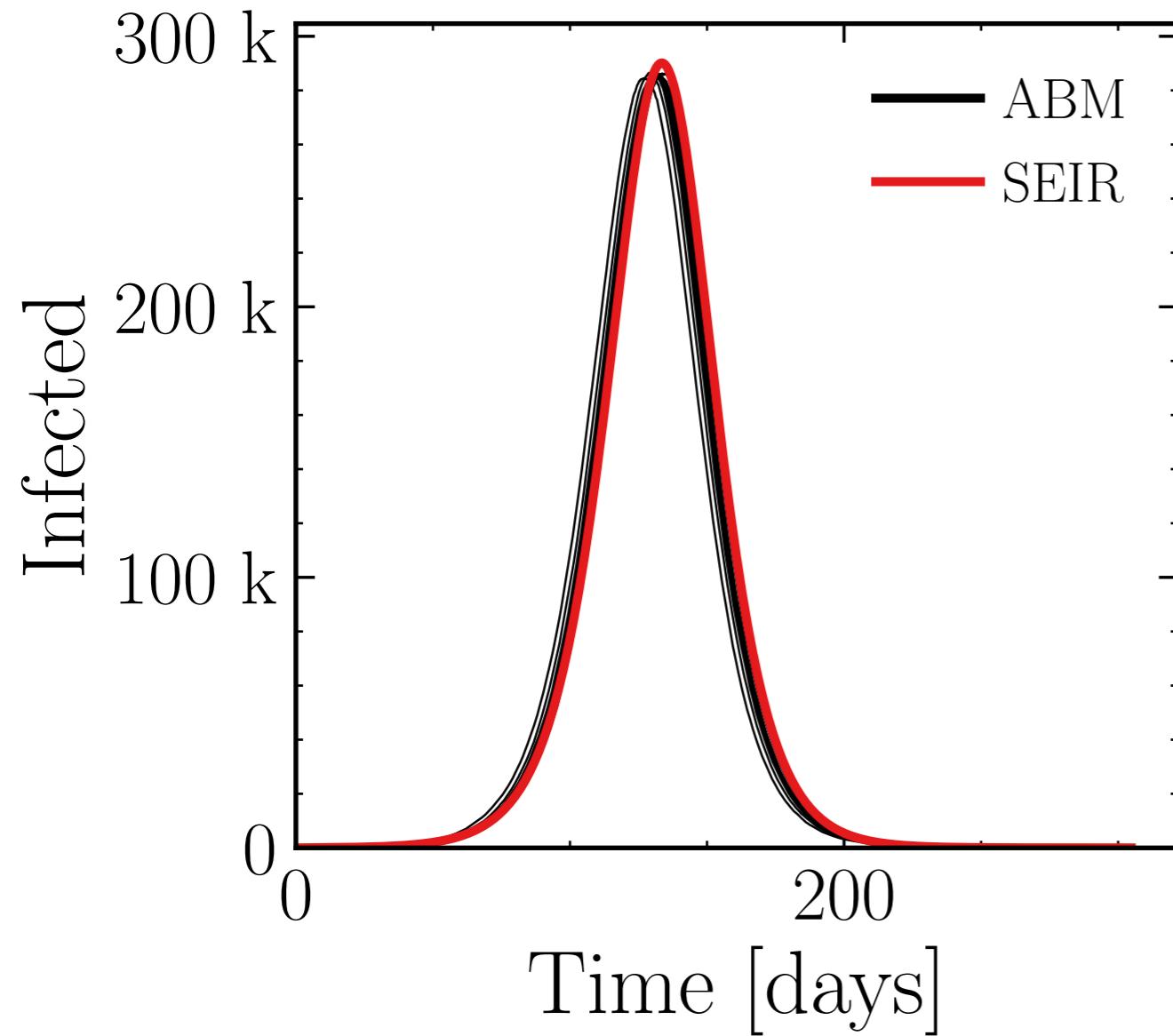


$$R_\infty^{\text{ABM}} = (184.78 \pm 0.037\%) \cdot 10^3$$

$N_{\text{tot}} = 5.8M$ ,  $\rho = 0.005$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

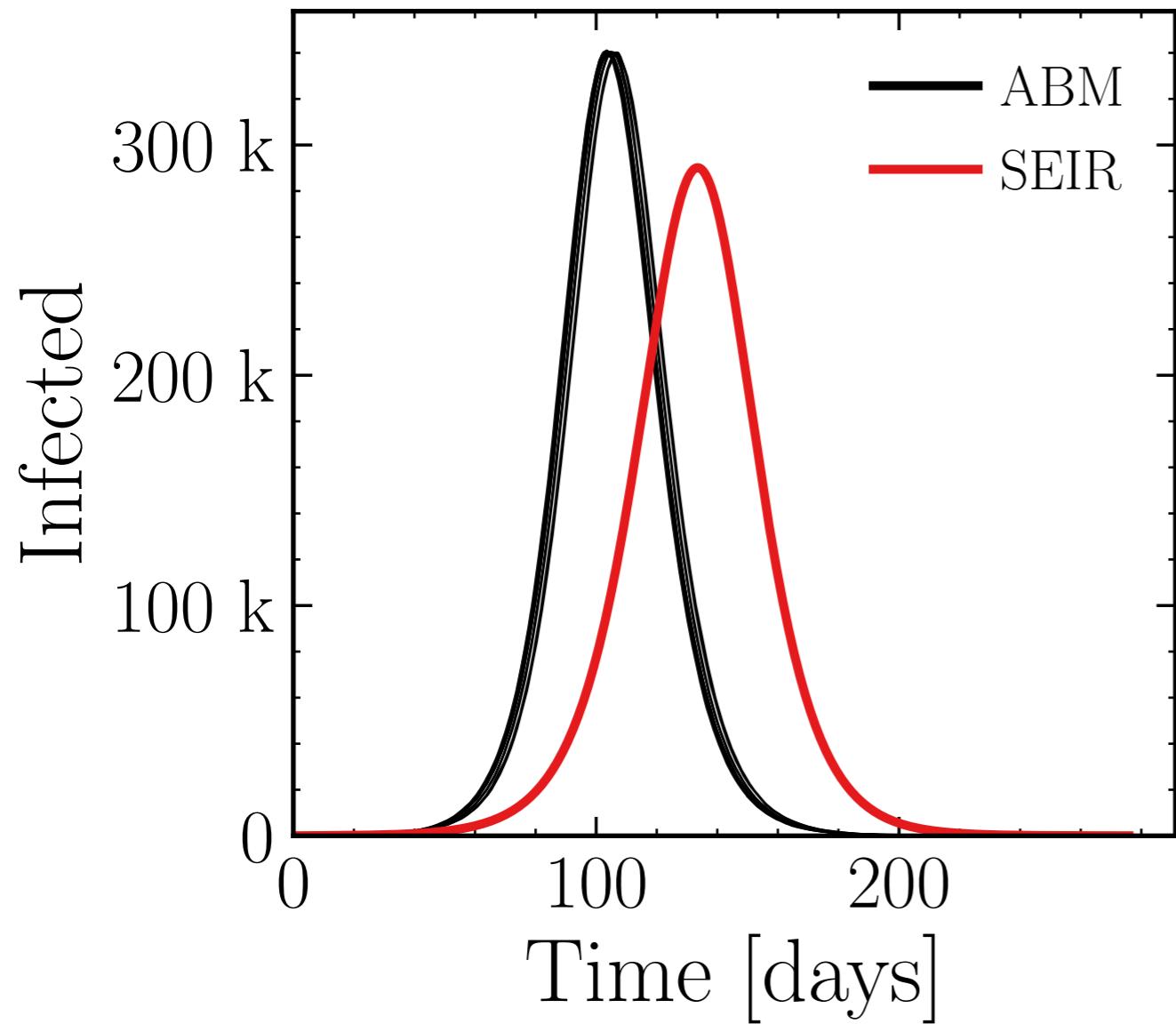
$$I_{\text{max}}^{\text{ABM}} = (285.7 \pm 0.075\%) \cdot 10^3$$

$$R_\infty^{\text{ABM}} = (3.6097 \pm 0.018\%) \cdot 10^6$$

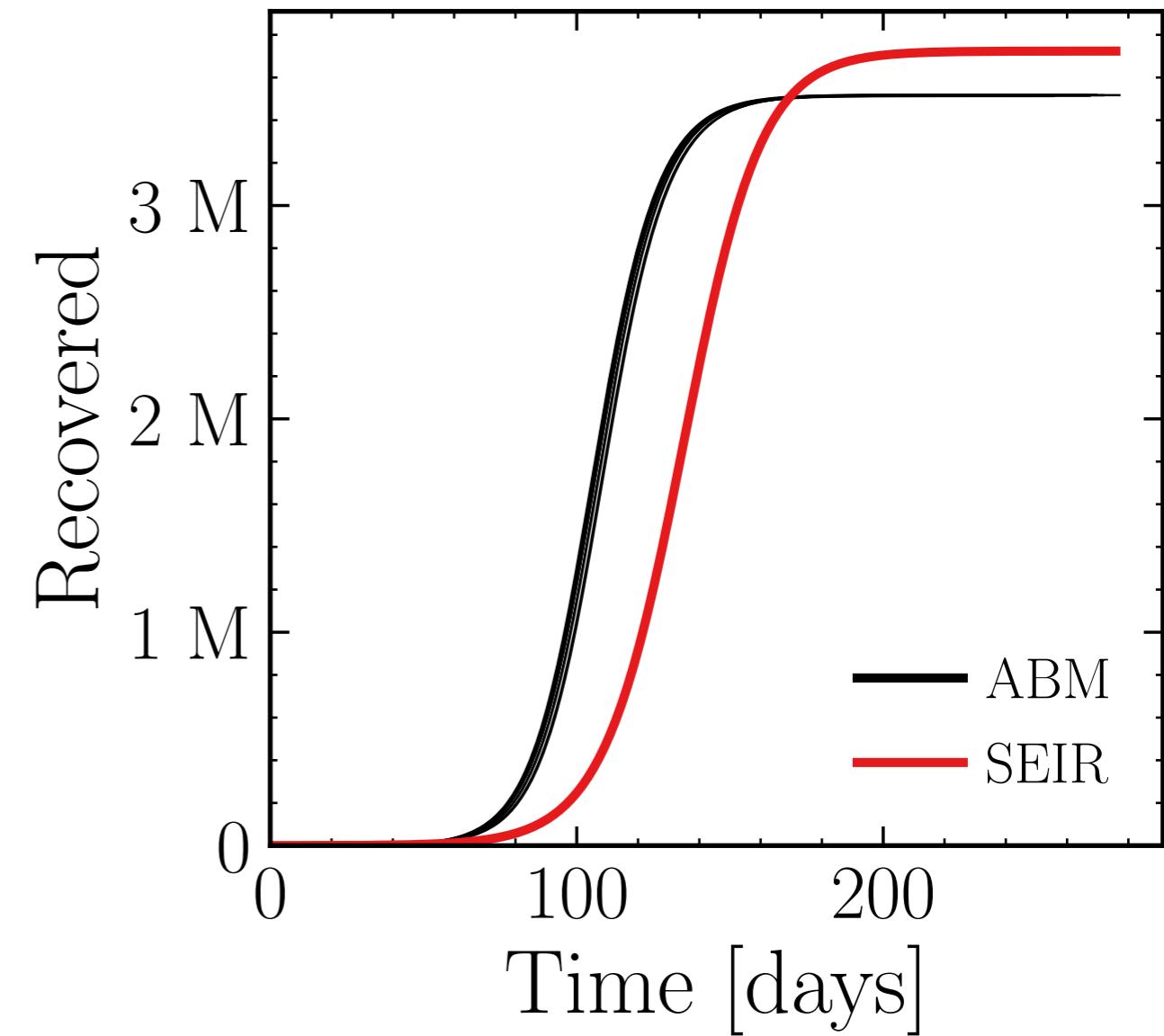


$N_{\text{tot}} = 5.8M$ ,  $\rho = 0.015$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\text{max}}^{\text{ABM}} = (339.9 \pm 0.055\%) \cdot 10^3$$

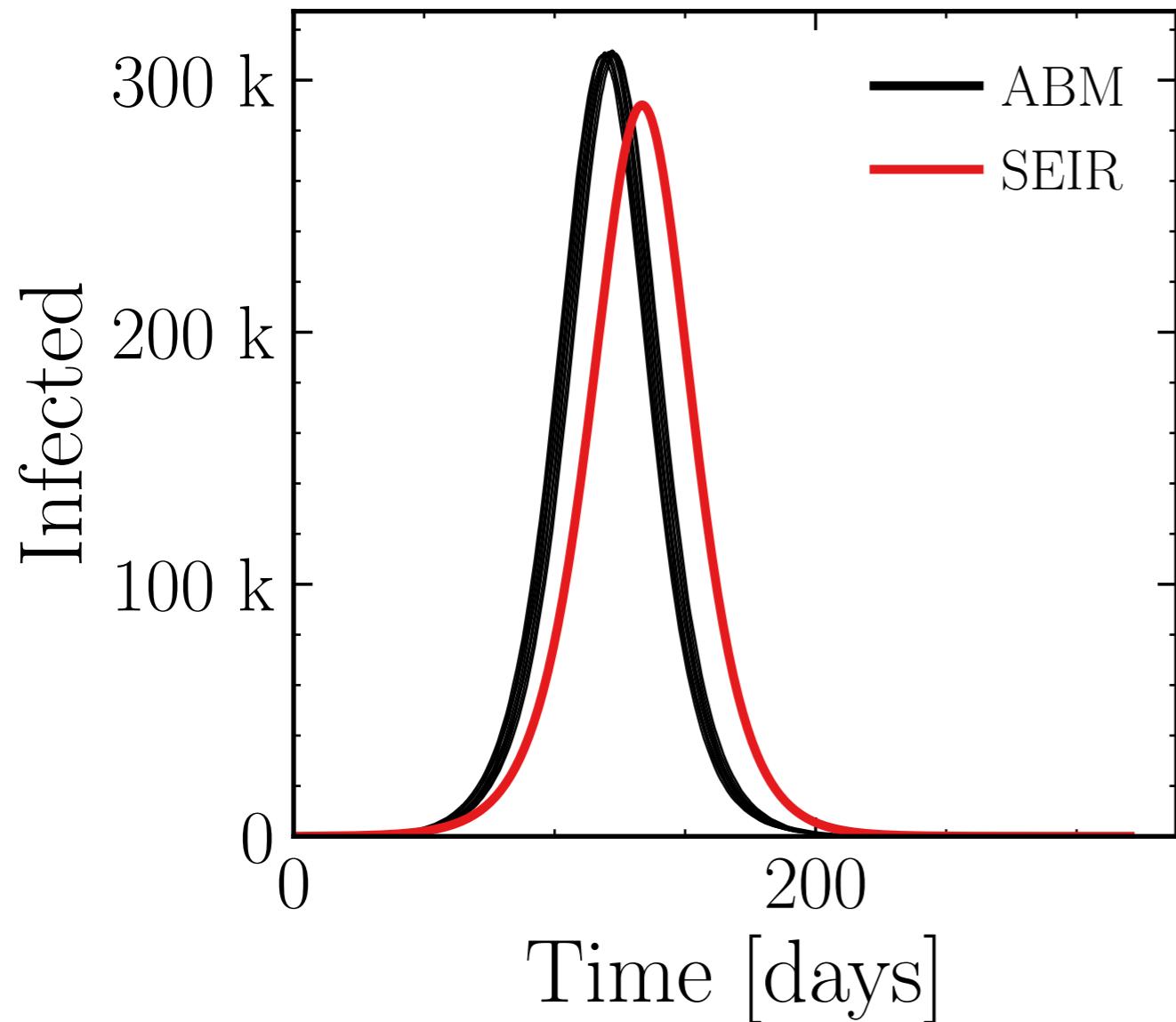


$$R_\infty^{\text{ABM}} = (3.5165 \pm 0.016\%) \cdot 10^6$$

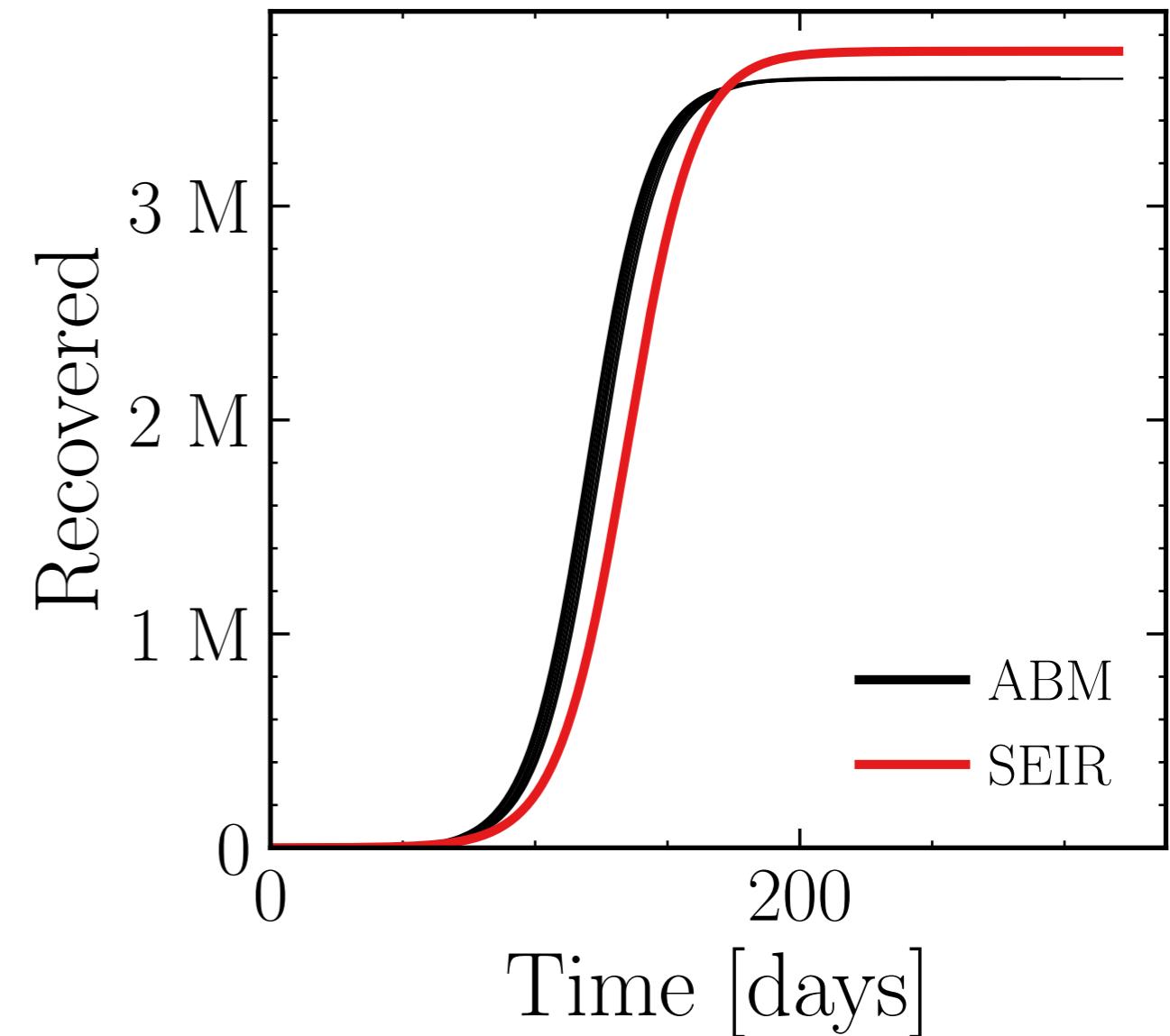


$N_{\text{tot}} = 5.8M$ ,  $\rho = 0.01$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (310.8 \pm 0.066\%) \cdot 10^3$$

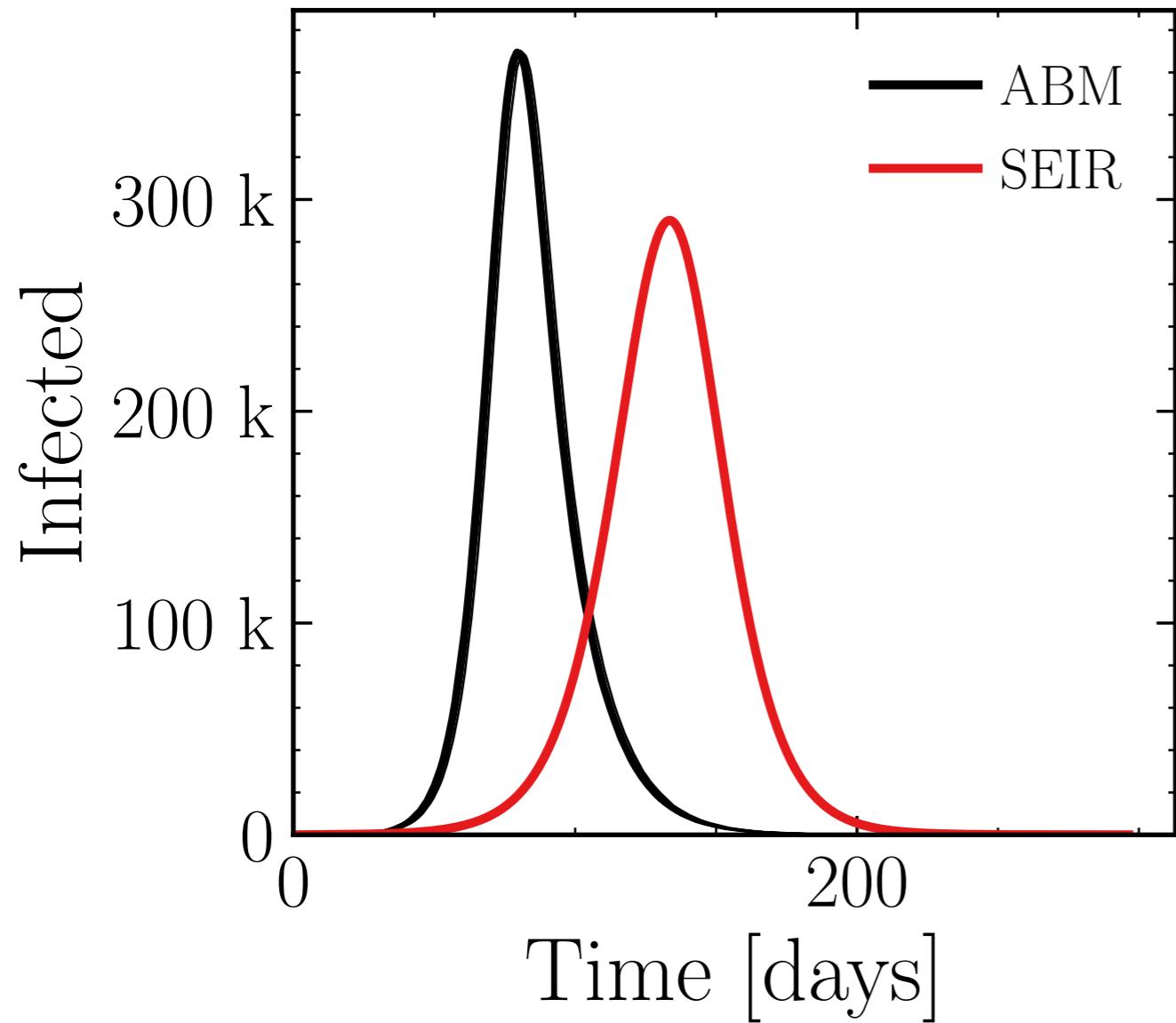


$$R_\infty^{\text{ABM}} = (3.5955 \pm 0.022\%) \cdot 10^6$$

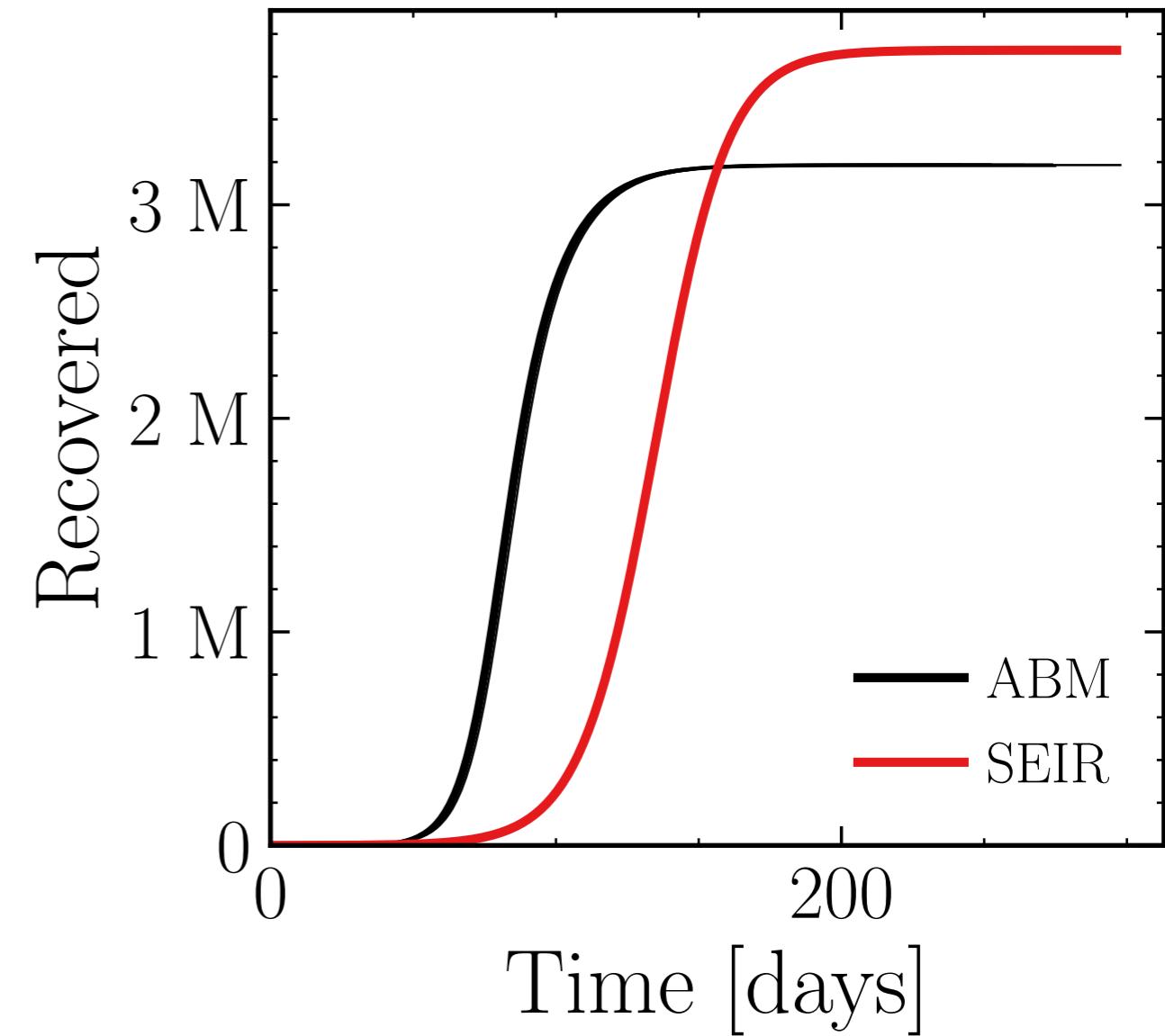


$N_{\text{tot}} = 5.8M$ ,  $\rho = 0.025$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\text{max}}^{\text{ABM}} = (369.8 \pm 0.062\%) \cdot 10^3$$

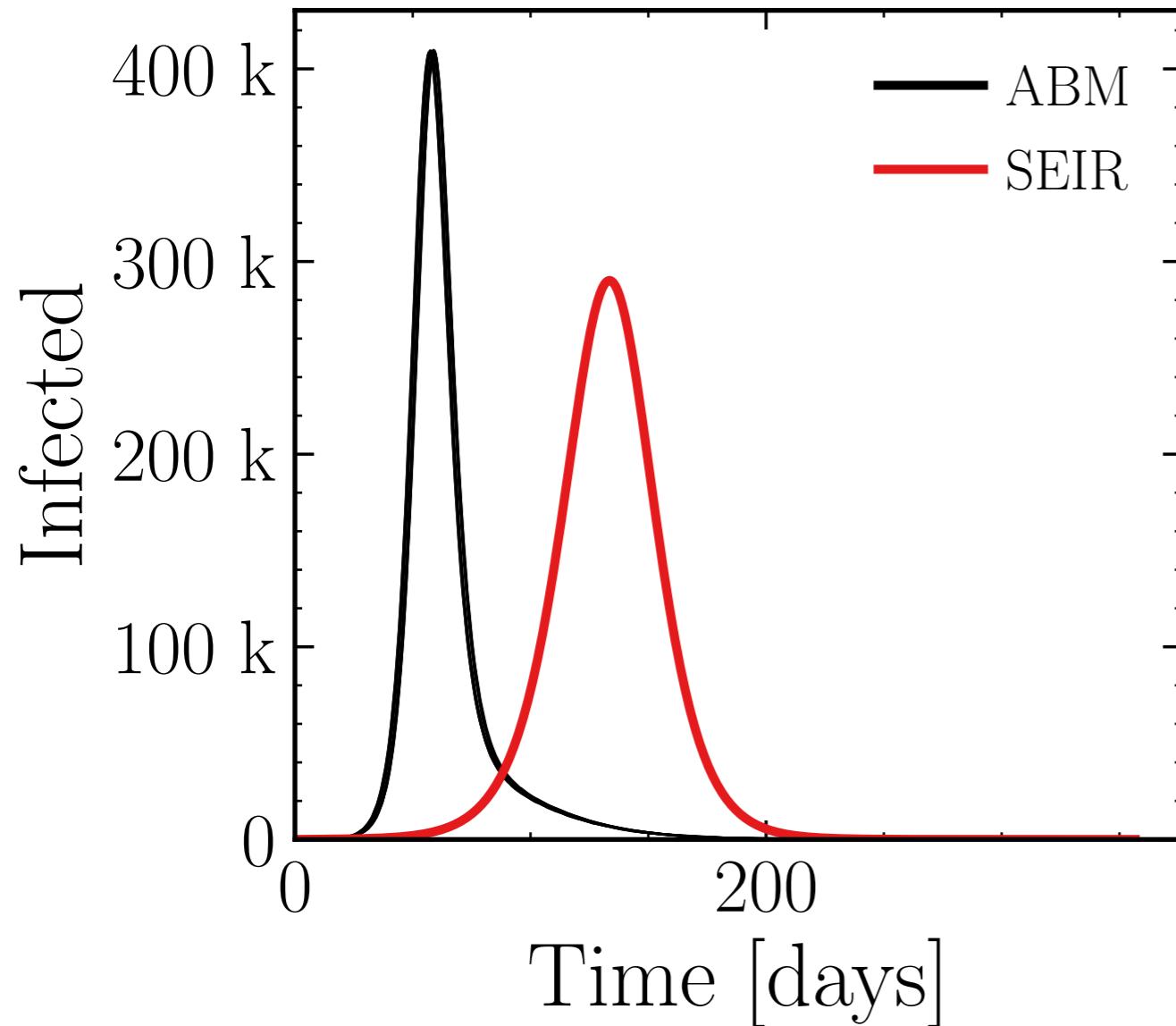


$$R_\infty^{\text{ABM}} = (3.1866 \pm 0.02\%) \cdot 10^6$$

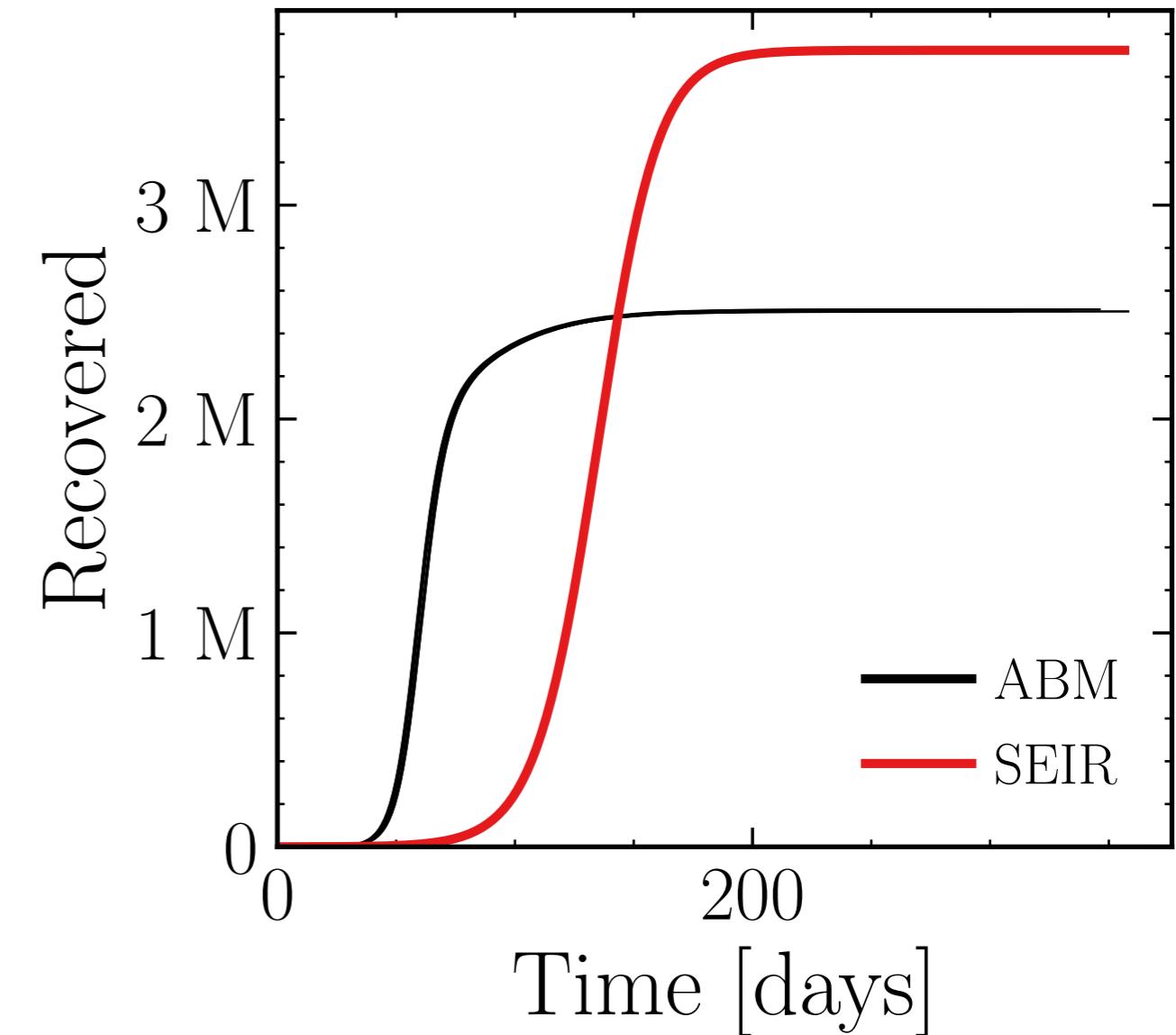


$N_{\text{tot}} = 5.8M$ ,  $\rho = 0.05$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (409 \pm 0.043\%) \cdot 10^3$$

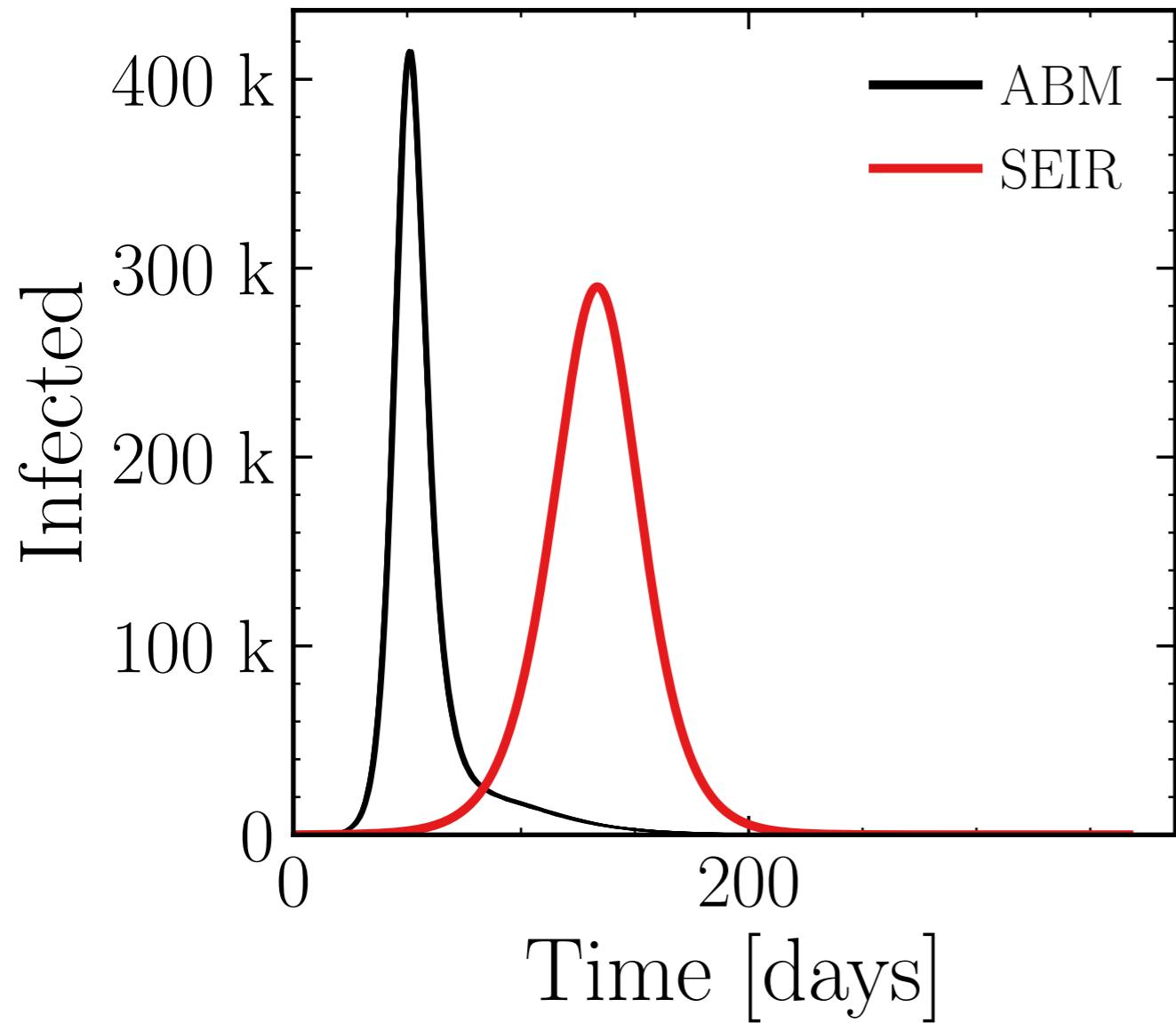


$$R_\infty^{\text{ABM}} = (2.507 \pm 0.042\%) \cdot 10^6$$

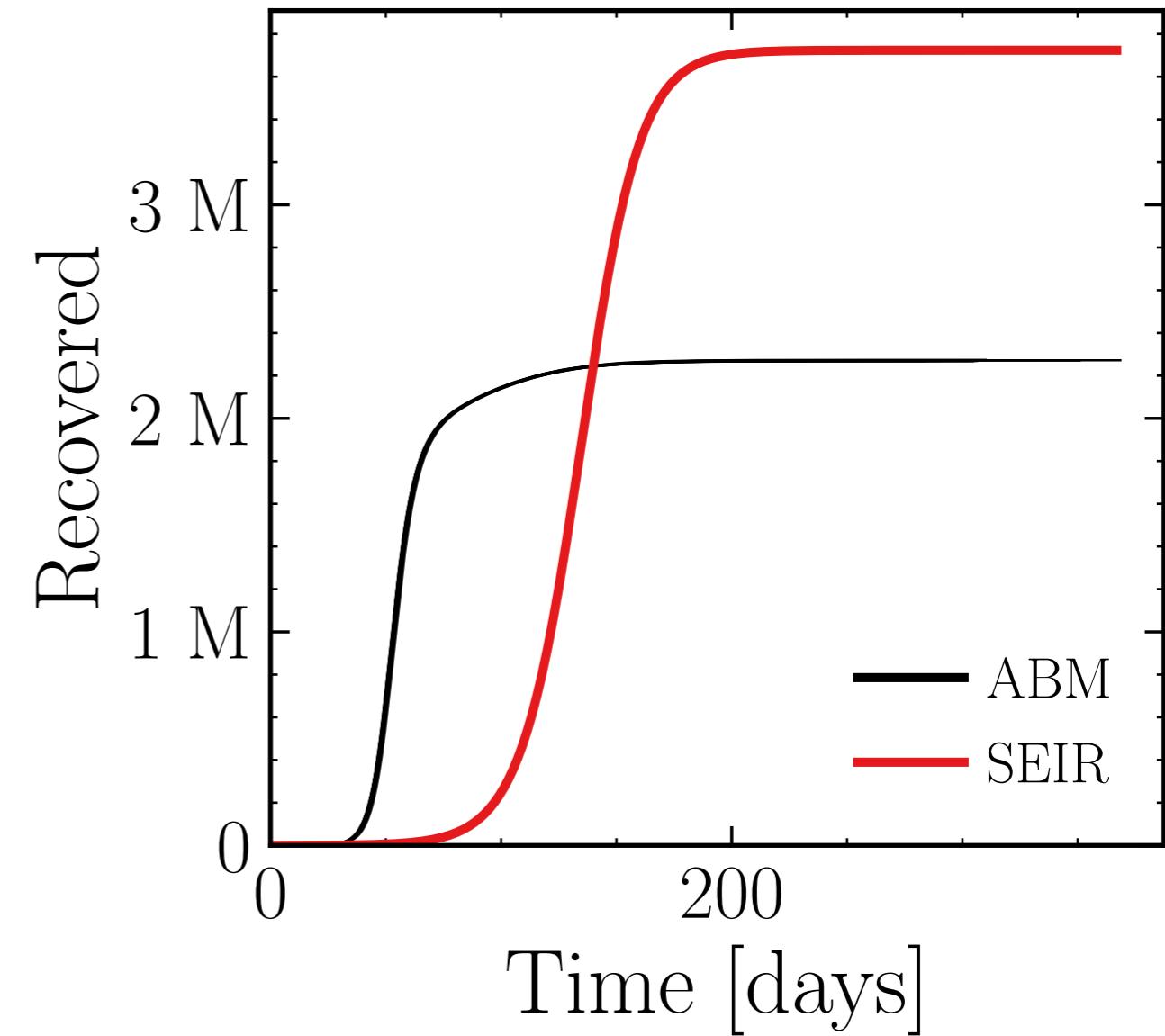


$N_{\text{tot}} = 5.8M$ ,  $\rho = 0.075$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

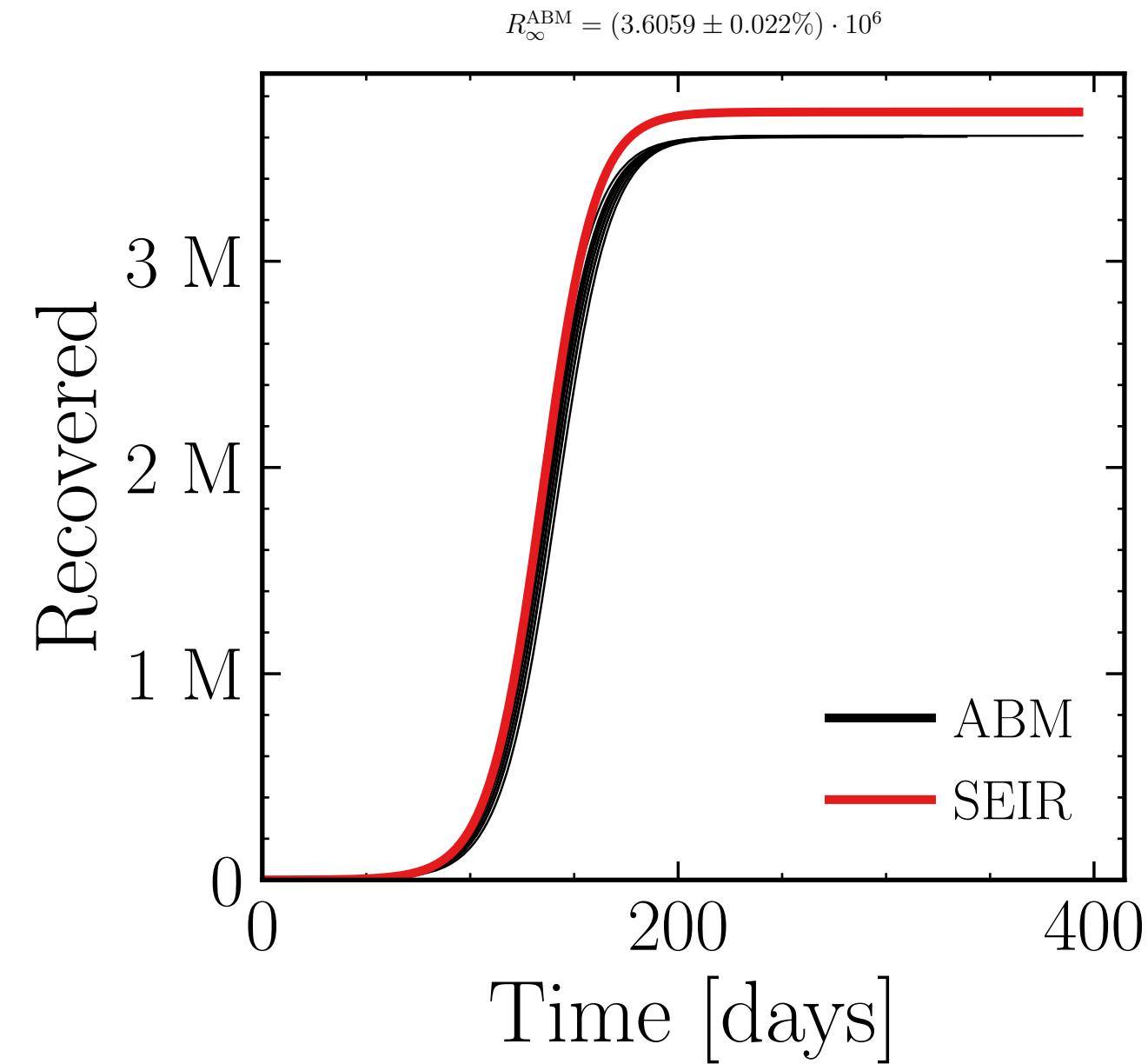
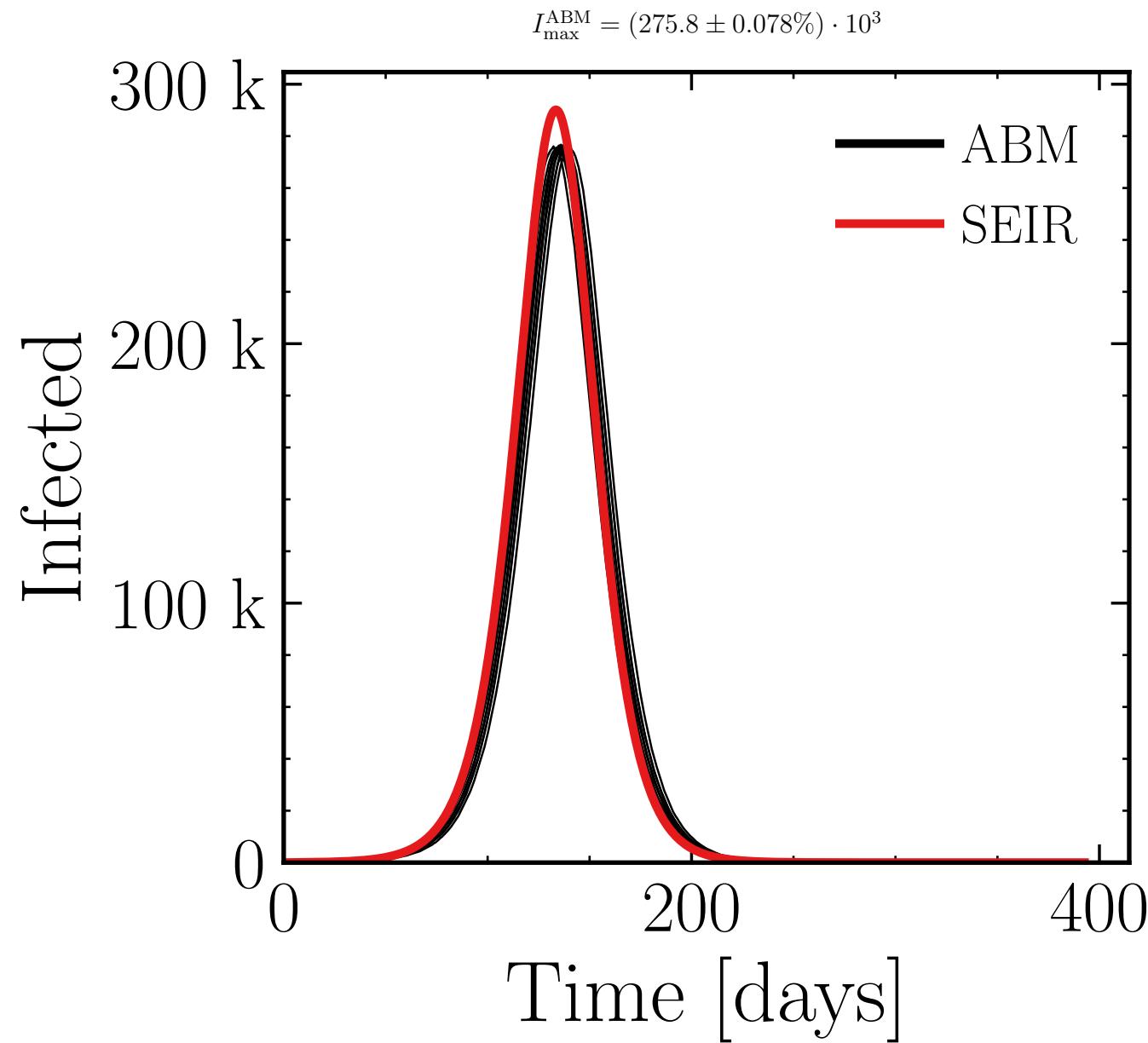
$$I_{\text{max}}^{\text{ABM}} = (414.6 \pm 0.057\%) \cdot 10^3$$



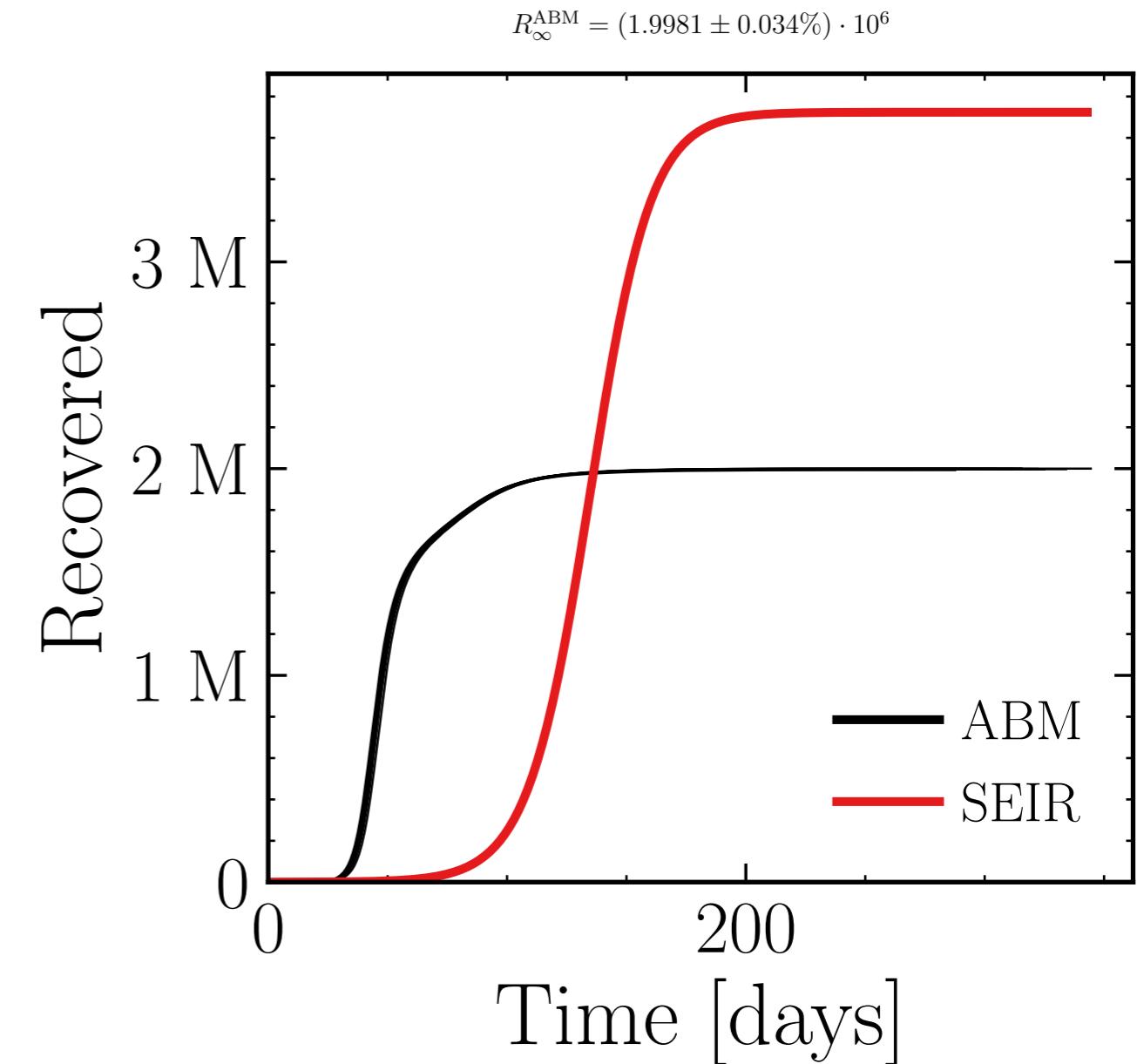
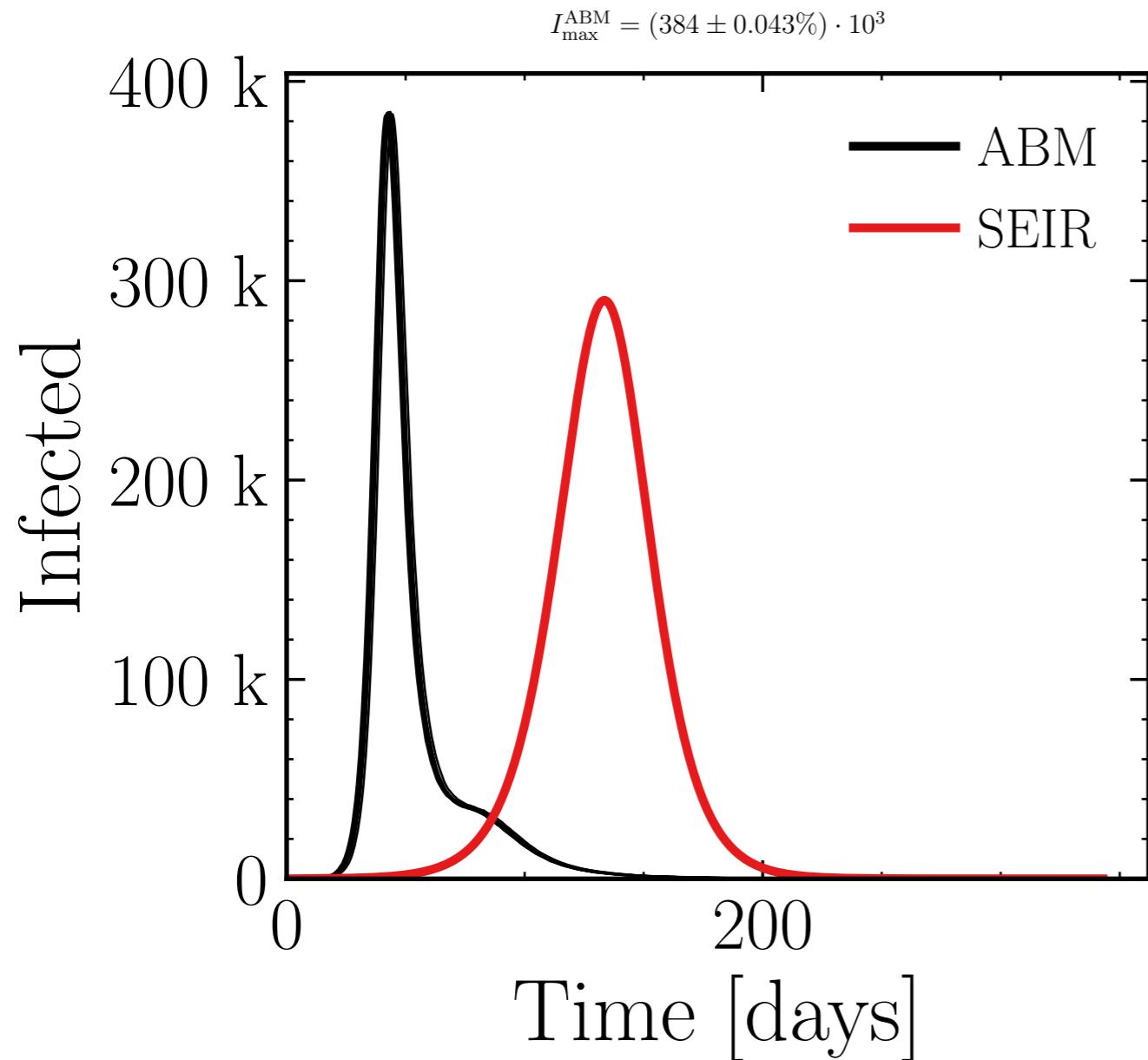
$$R_\infty^{\text{ABM}} = (2.2701 \pm 0.026\%) \cdot 10^6$$



$N_{\text{tot}} = 5.8M$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

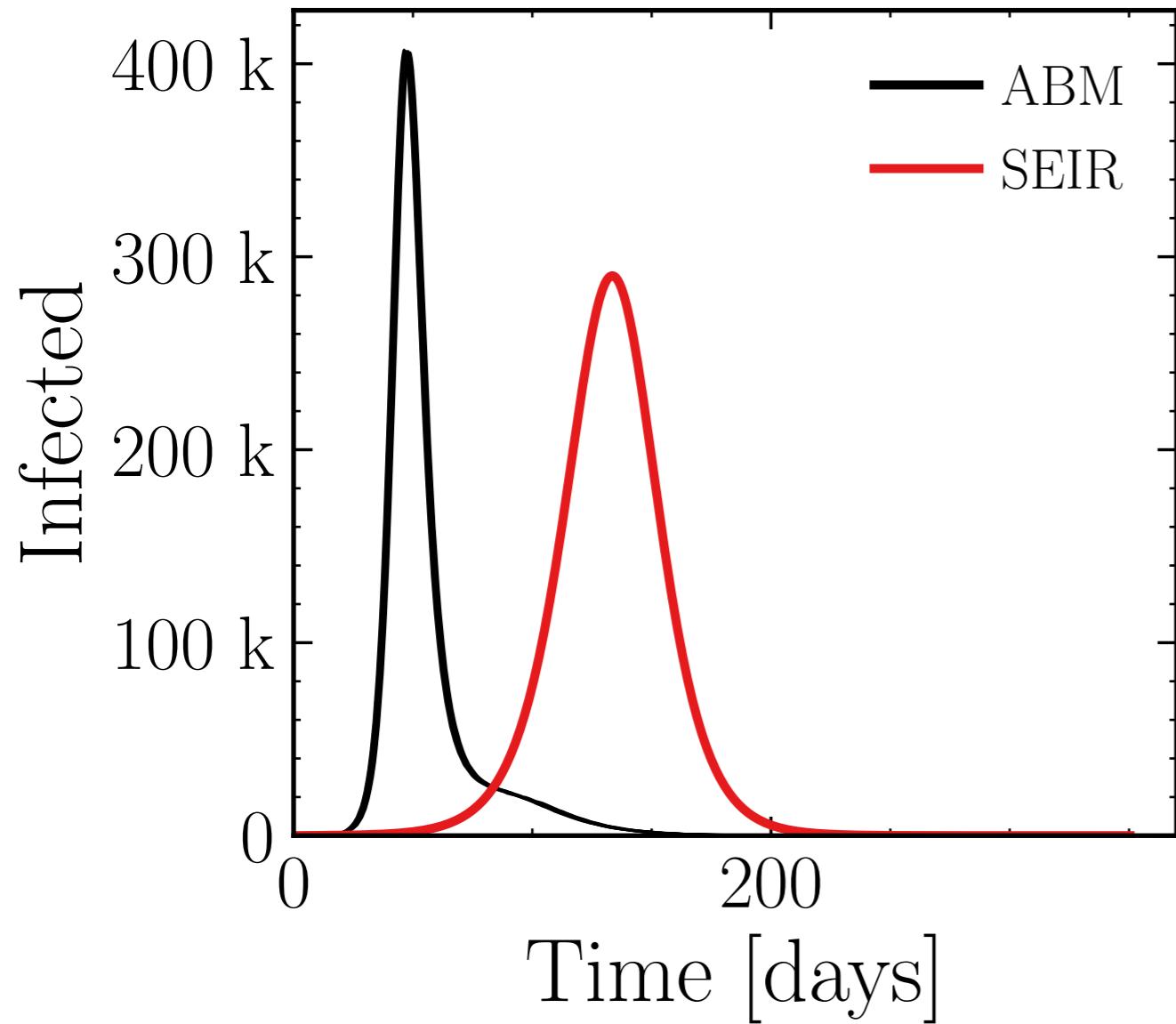


$N_{\text{tot}} = 5.8M$ ,  $\rho = 0.15$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

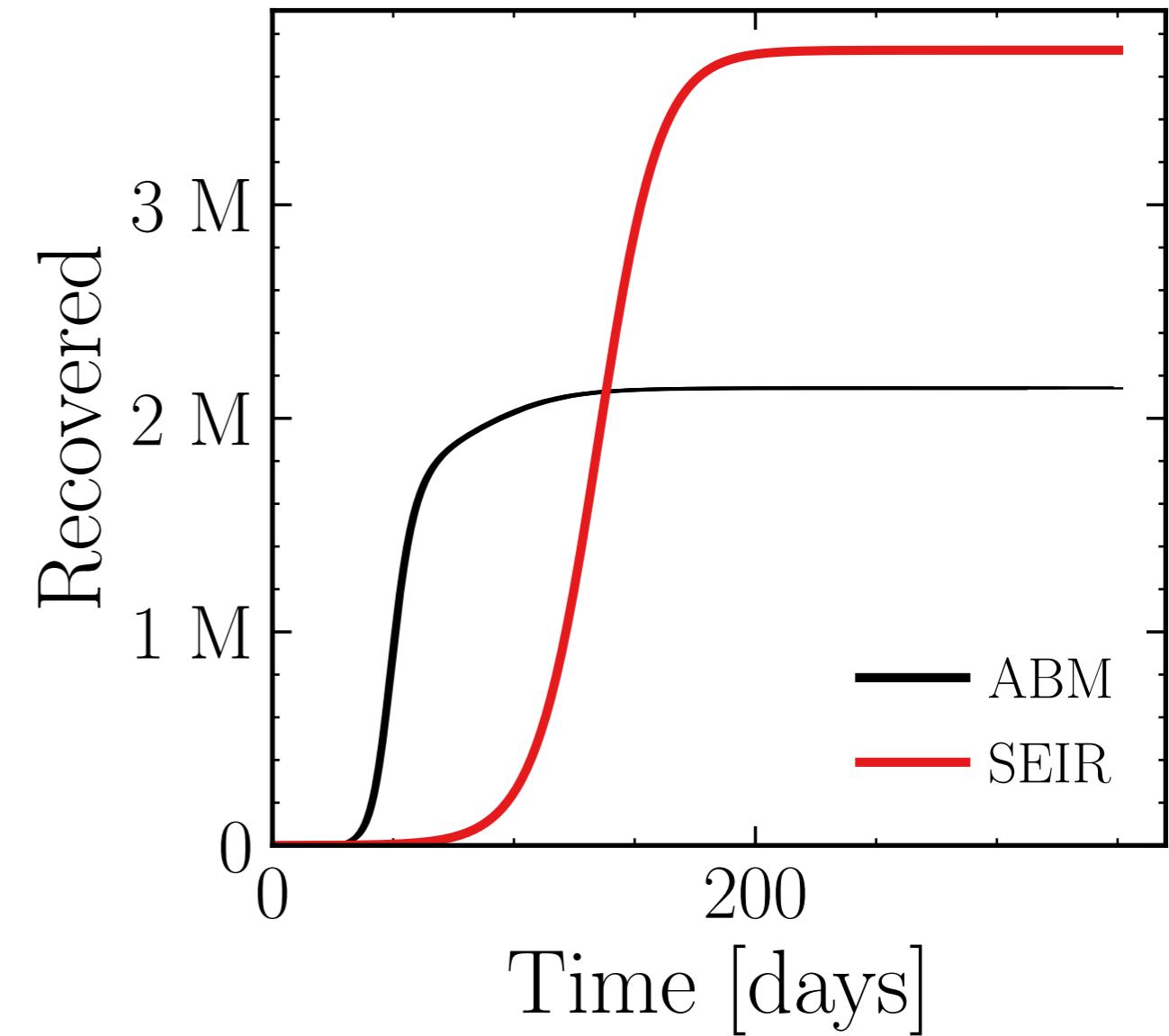


$N_{\text{tot}} = 5.8M$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\text{max}}^{\text{ABM}} = (406.2 \pm 0.037\%) \cdot 10^3$$

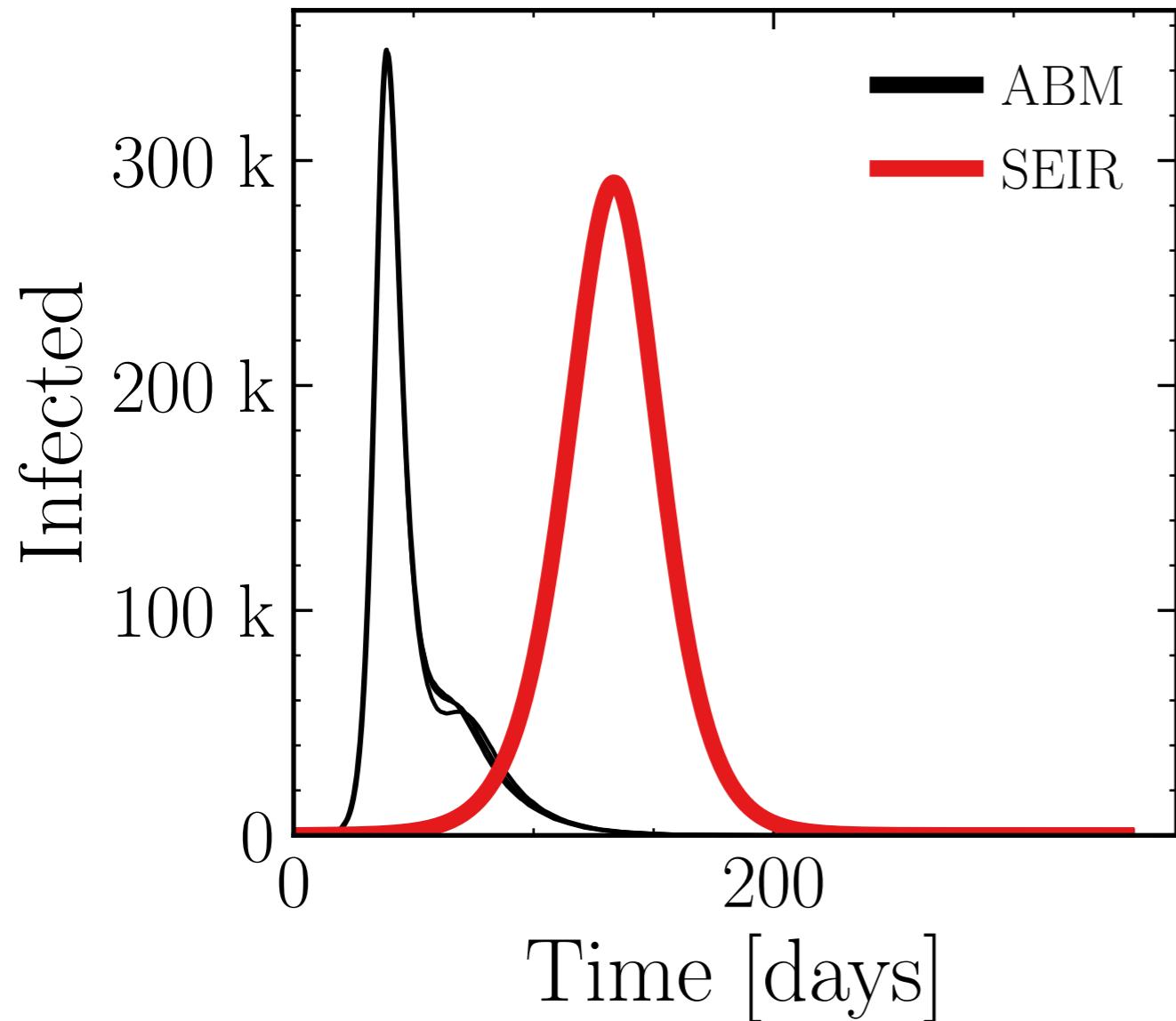


$$R_\infty^{\text{ABM}} = (2.1422 \pm 0.028\%) \cdot 10^6$$

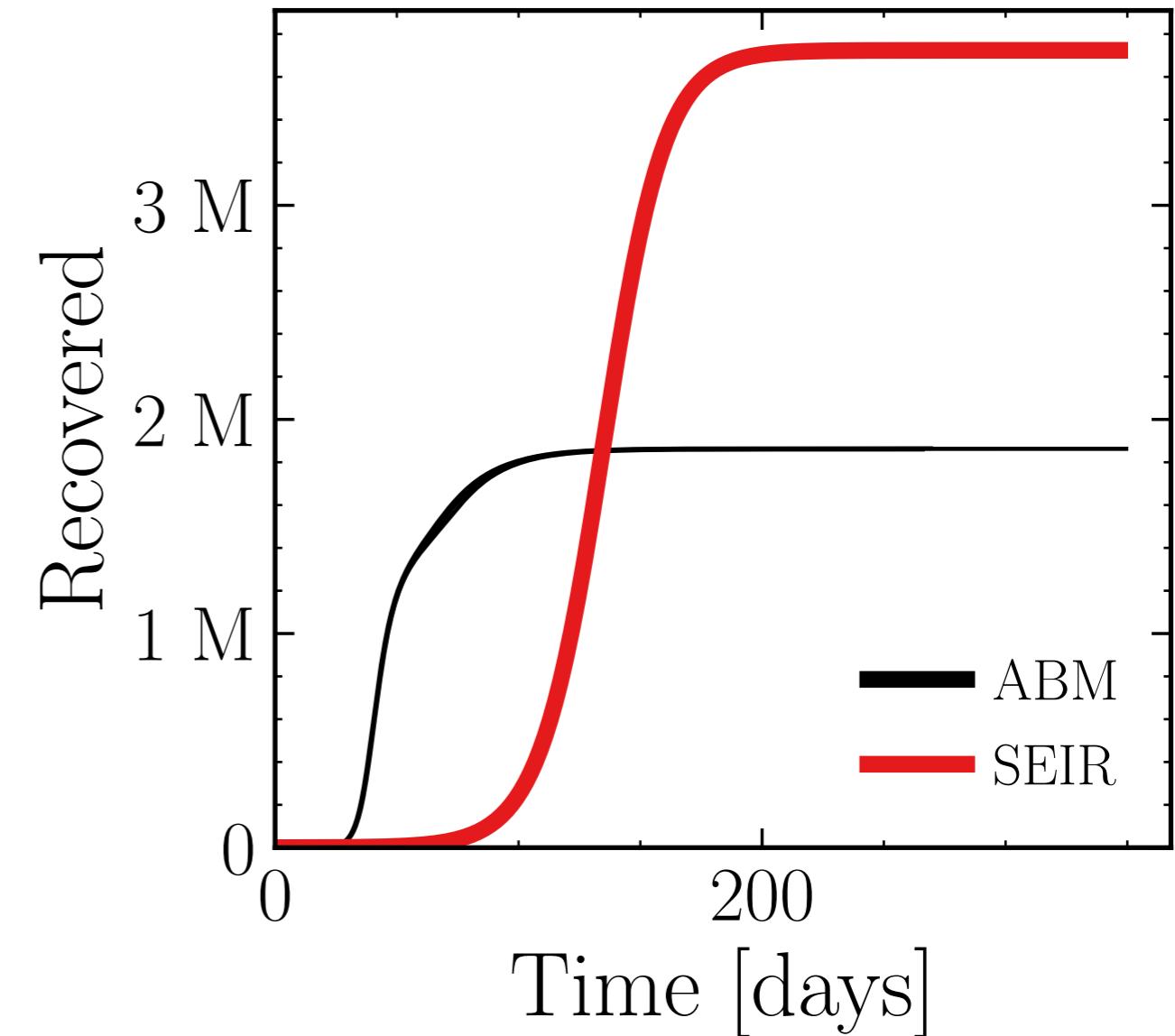


$N_{\text{tot}} = 5.8M$ ,  $\rho = 0.25$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #3

$$I_{\max}^{\text{ABM}} = (347.9 \pm 0.18\%) \cdot 10^3$$

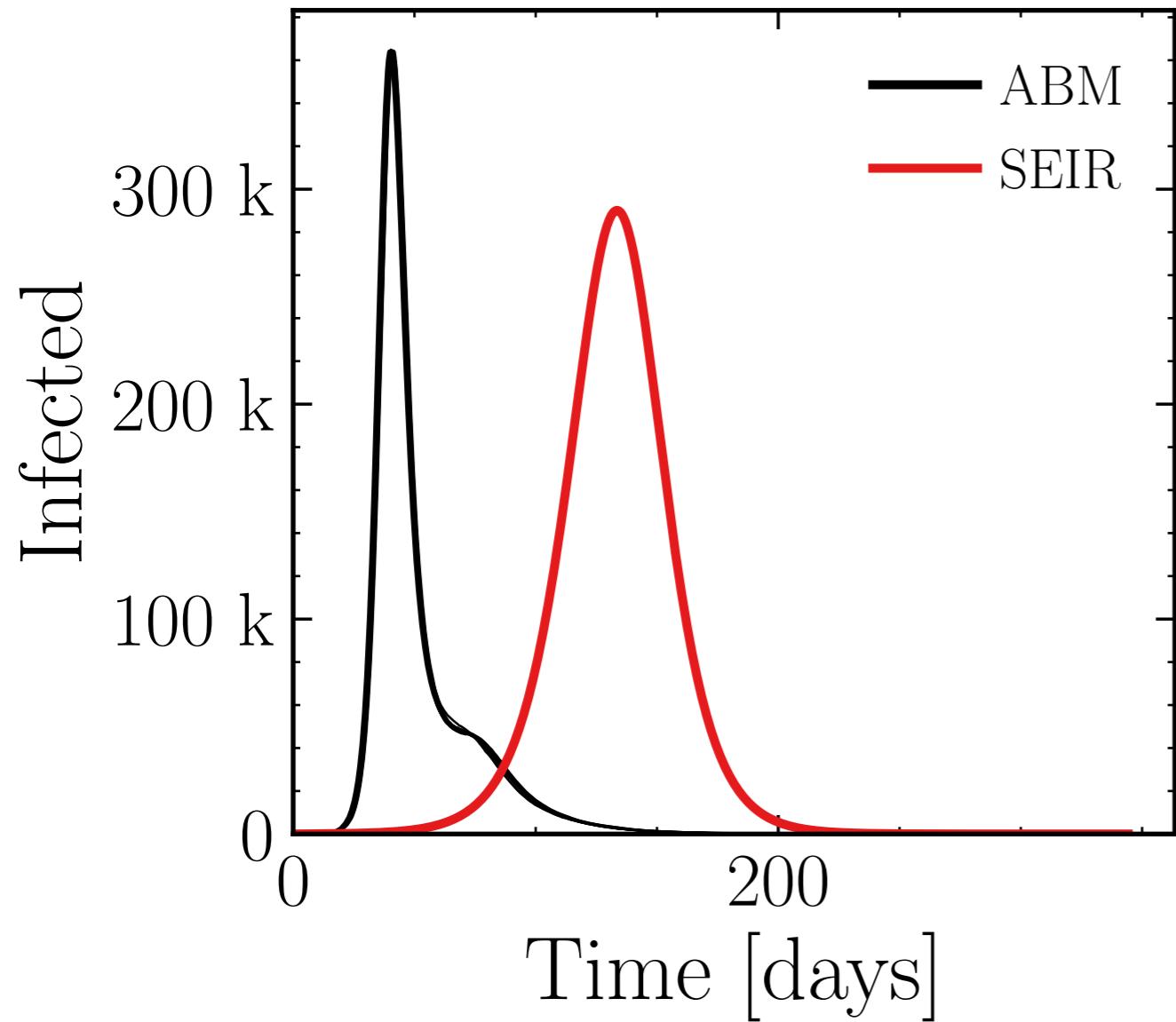


$$R_\infty^{\text{ABM}} = (1.863 \pm 0.066\%) \cdot 10^6$$

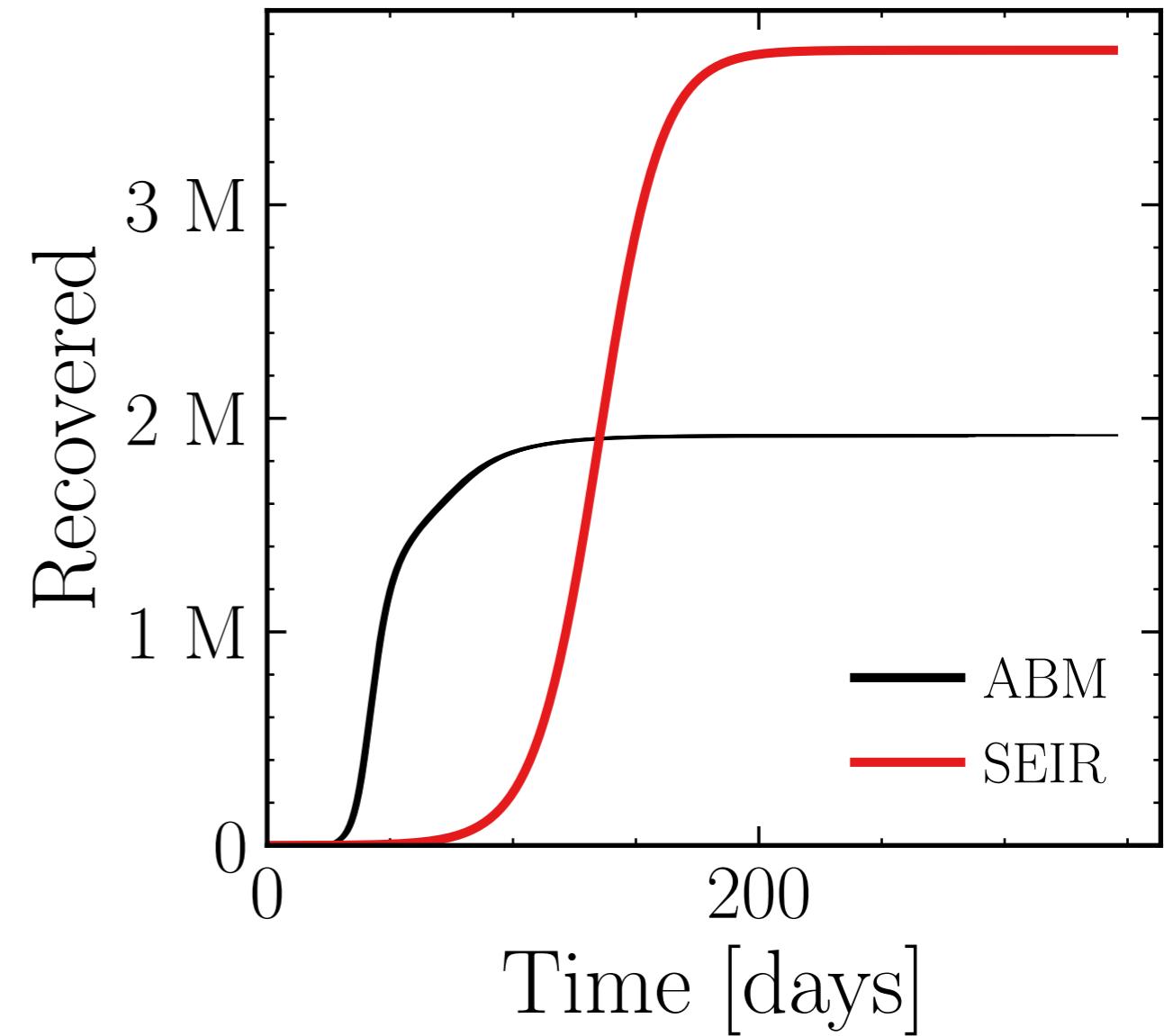


$N_{\text{tot}} = 5.8M$ ,  $\rho = 0.2$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (364.4 \pm 0.034\%) \cdot 10^3$$

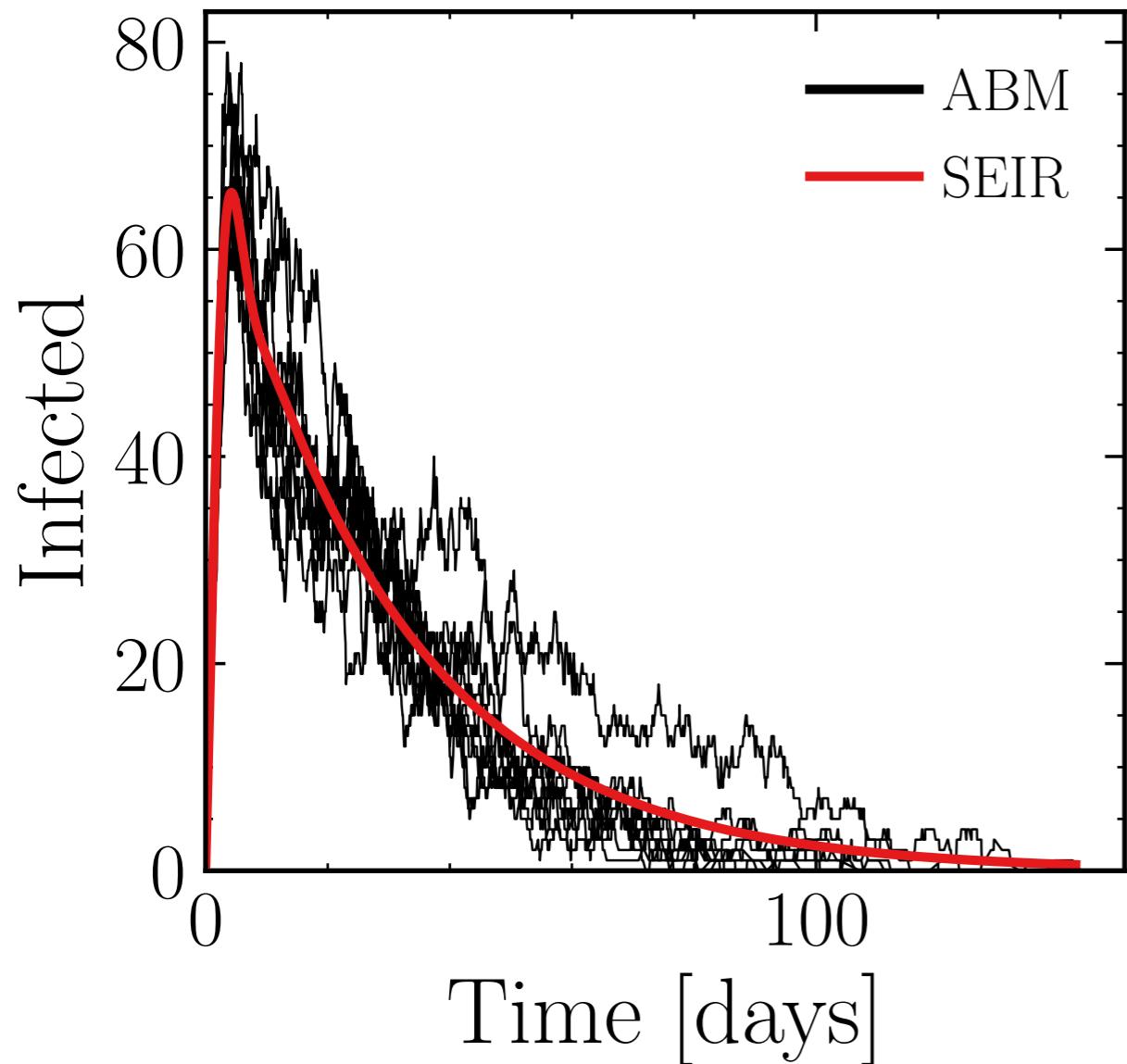


$$R_\infty^{\text{ABM}} = (1.9195 \pm 0.031\%) \cdot 10^6$$

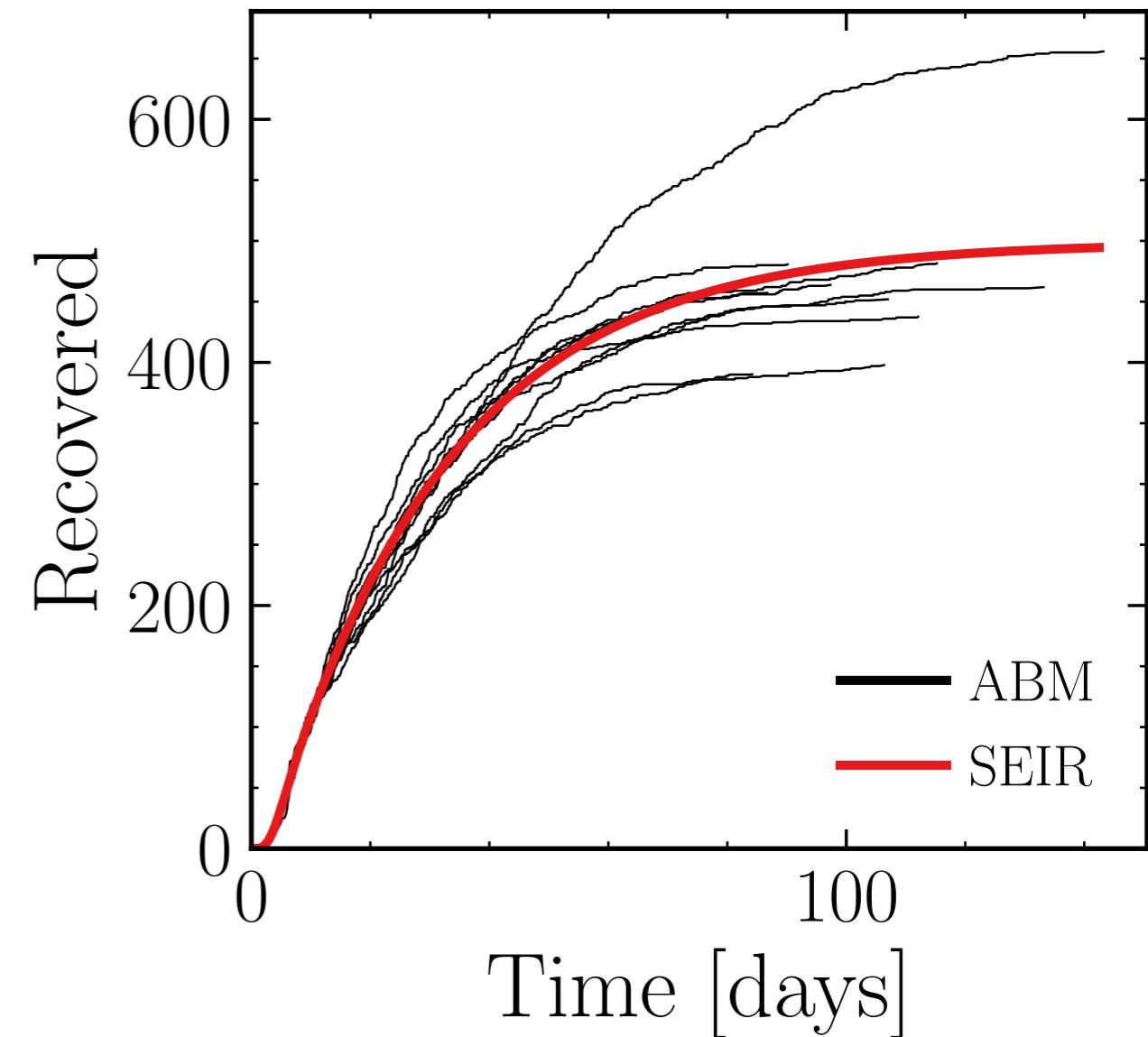


$N_{\text{tot}} = 580K$ ,  $\rho = 0.005$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.005$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (71 \pm 2.2\%) \cdot$$



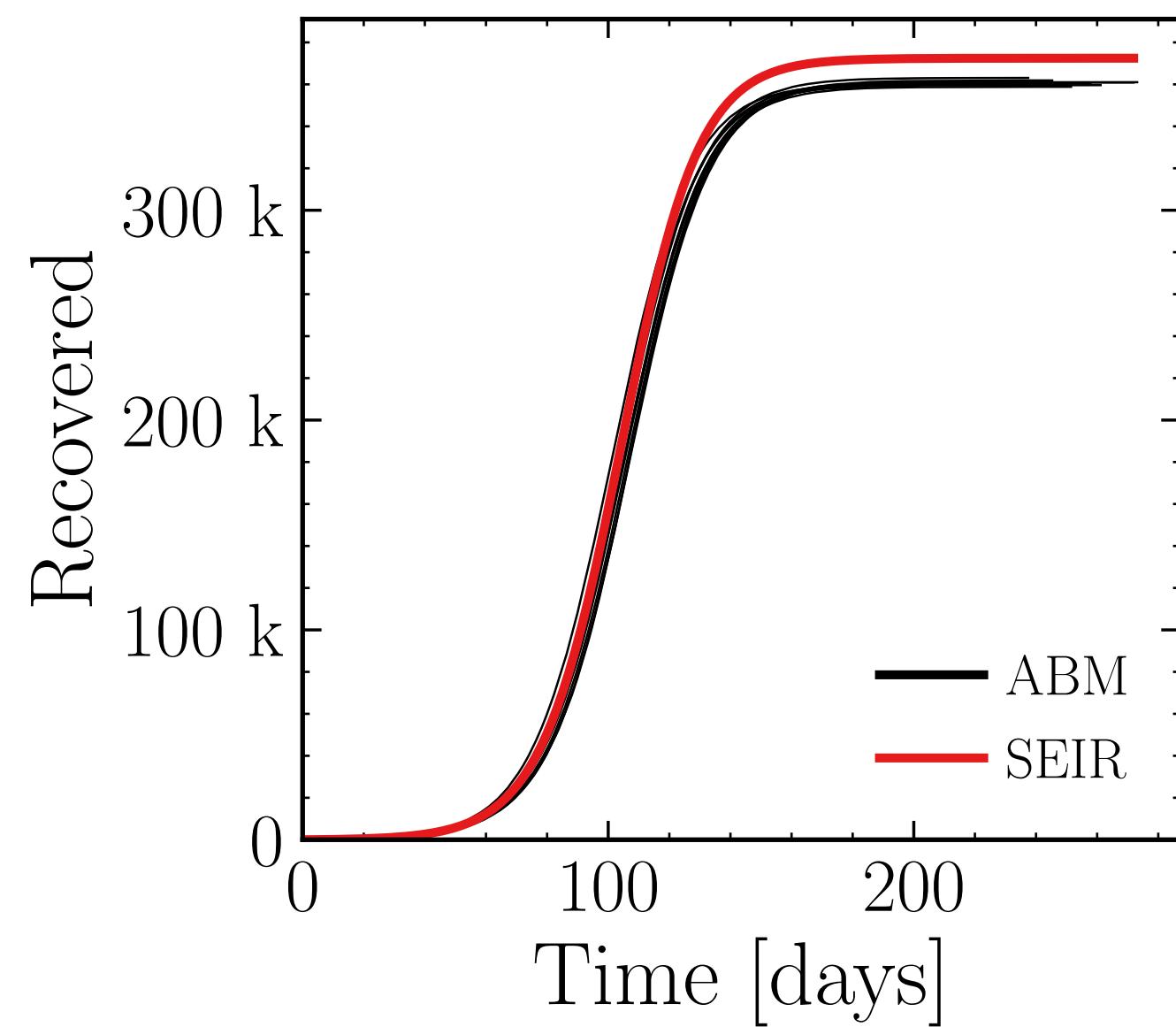
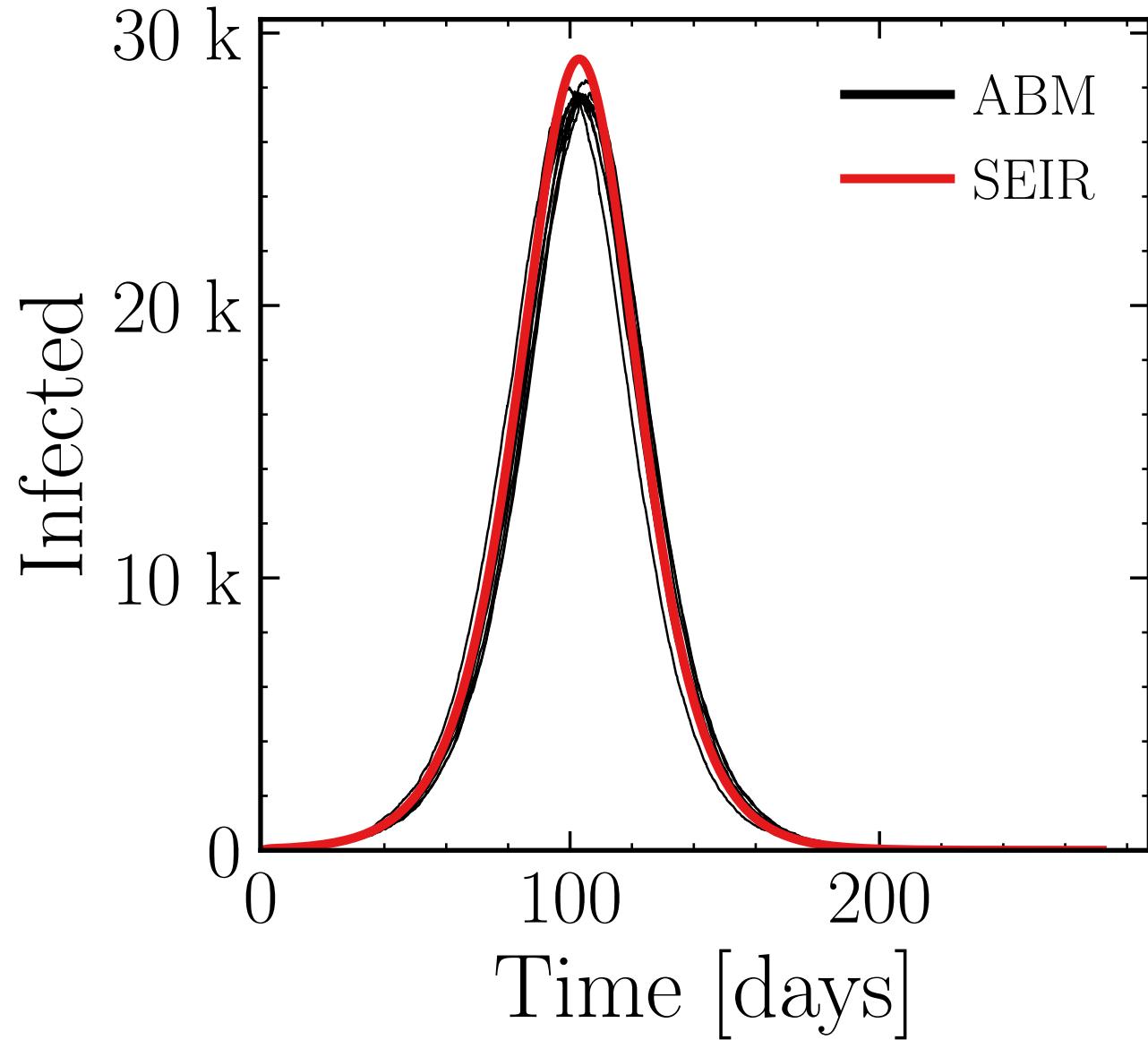
$$R_\infty^{\text{ABM}} = (470 \pm 4.7\%) \cdot$$



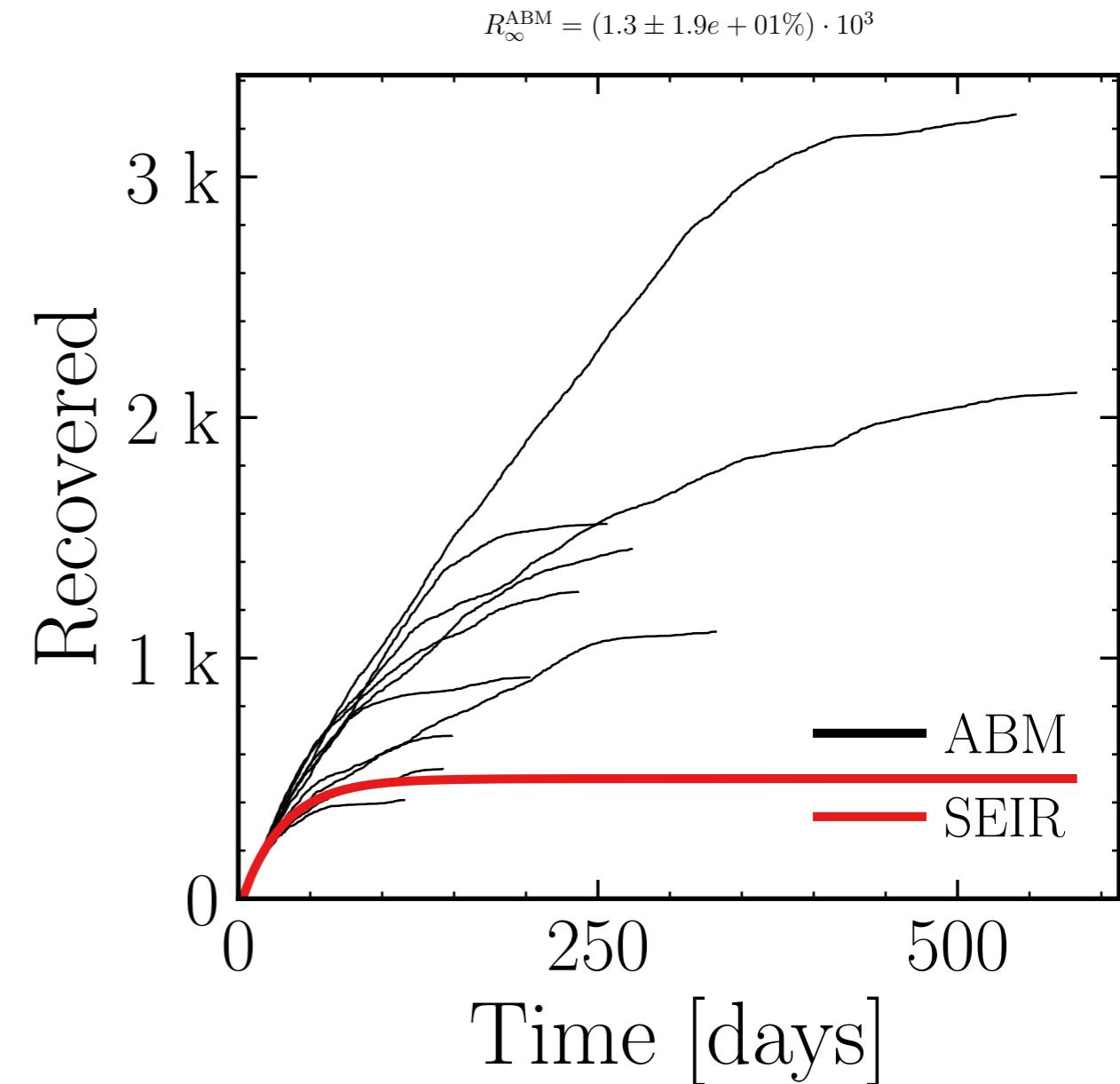
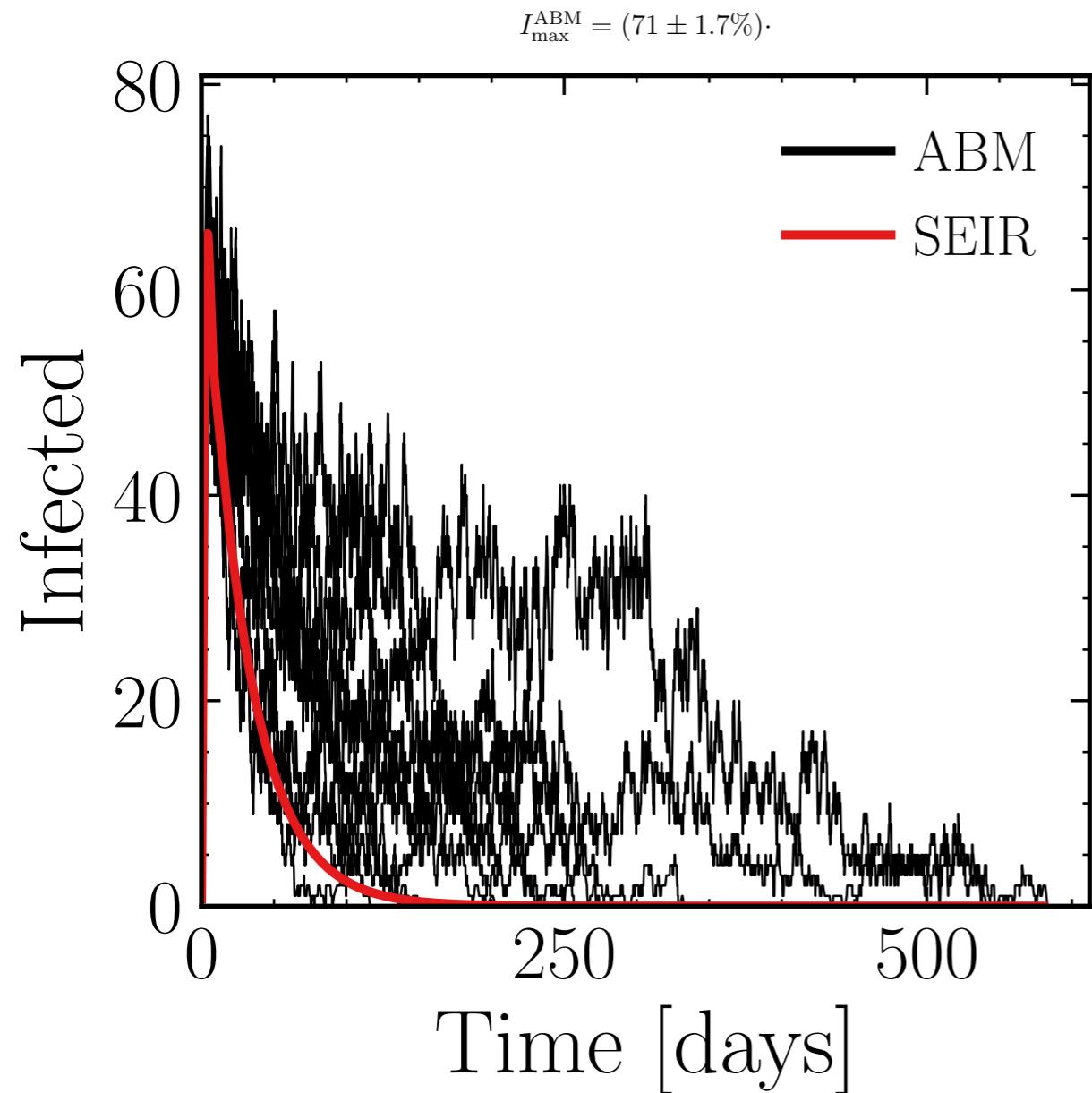
$N_{\text{tot}} = 580K$ ,  $\rho = 0.005$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (27.8 \pm 0.23\%) \cdot 10^3$$

$$R_{\infty}^{\text{ABM}} = (360.7 \pm 0.097\%) \cdot 10^3$$



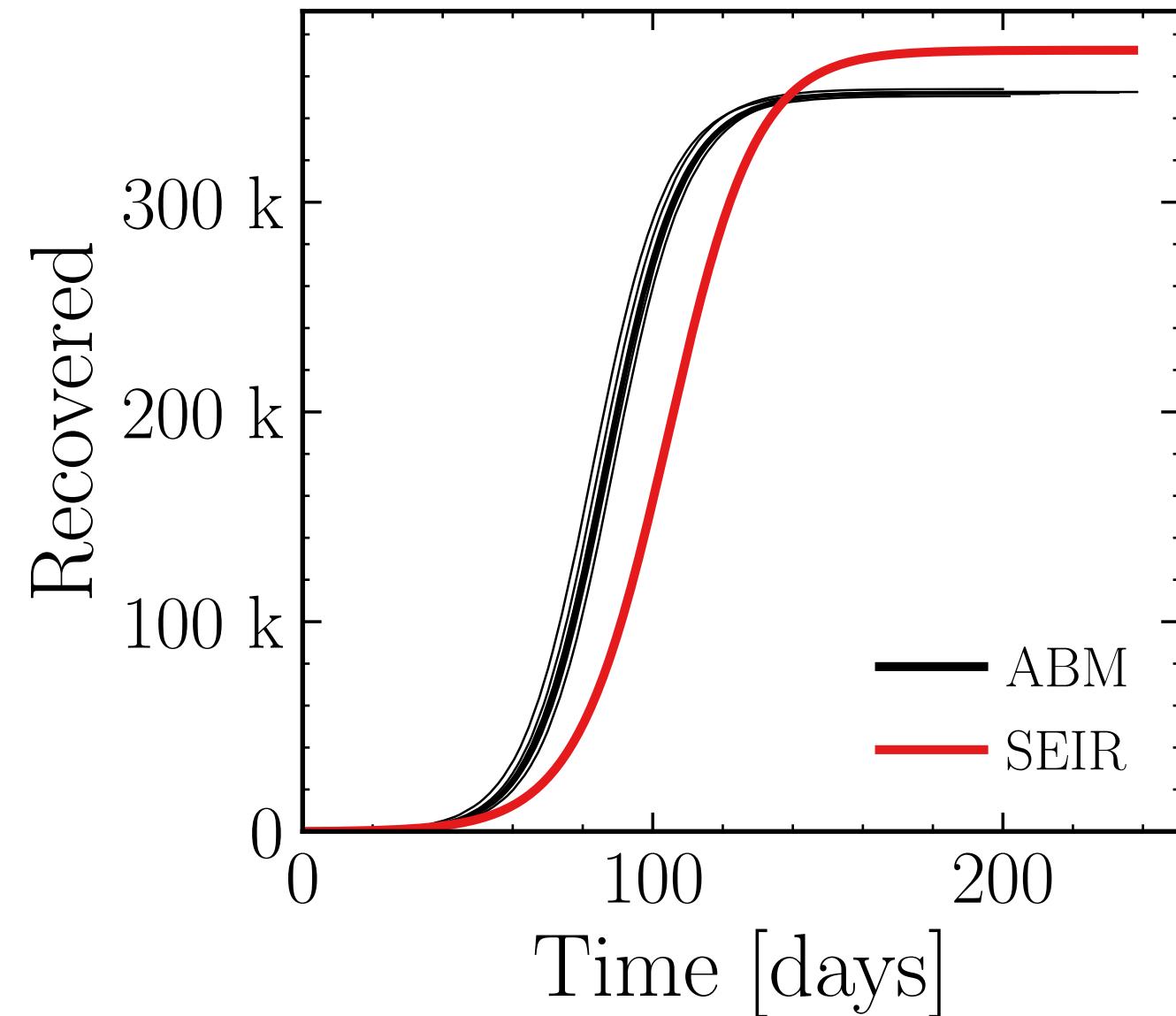
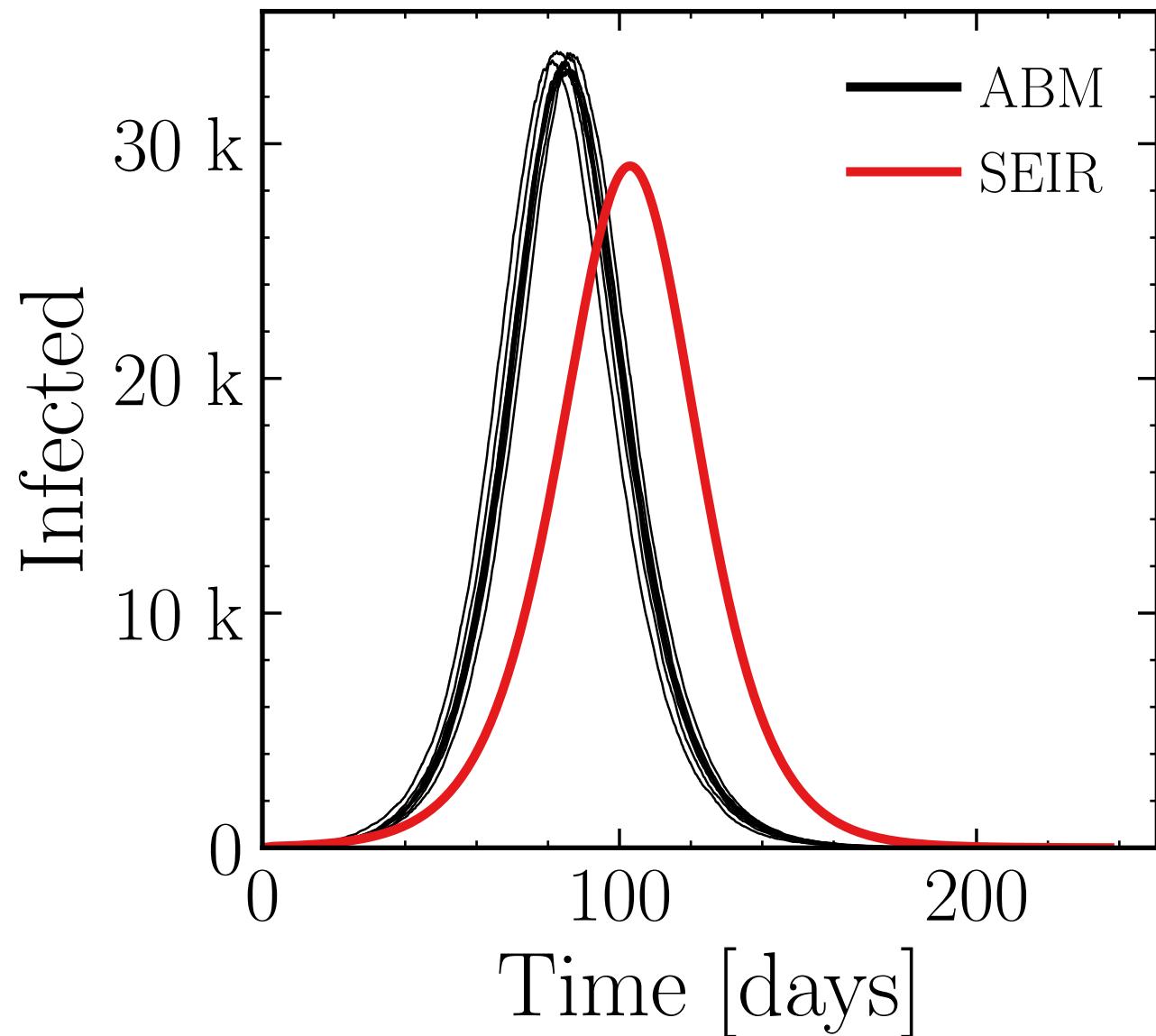
$N_{\text{tot}} = 580K$ ,  $\rho = 0.015$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.005$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10



$N_{\text{tot}} = 580K$ ,  $\rho = 0.015$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

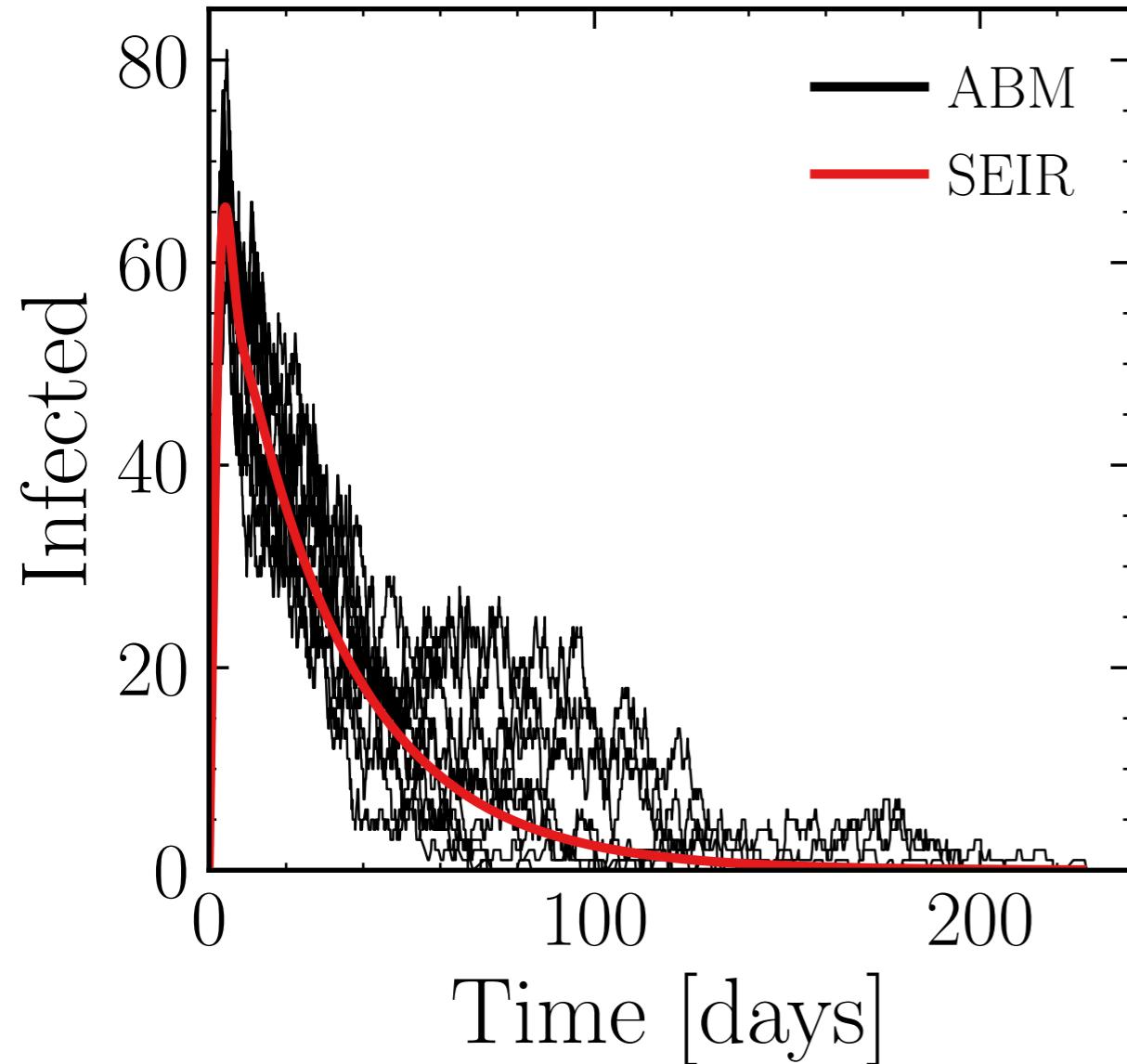
$$I_{\max}^{\text{ABM}} = (33.46 \pm 0.27\%) \cdot 10^3$$

$$R_\infty^{\text{ABM}} = (352.2 \pm 0.072\%) \cdot 10^3$$

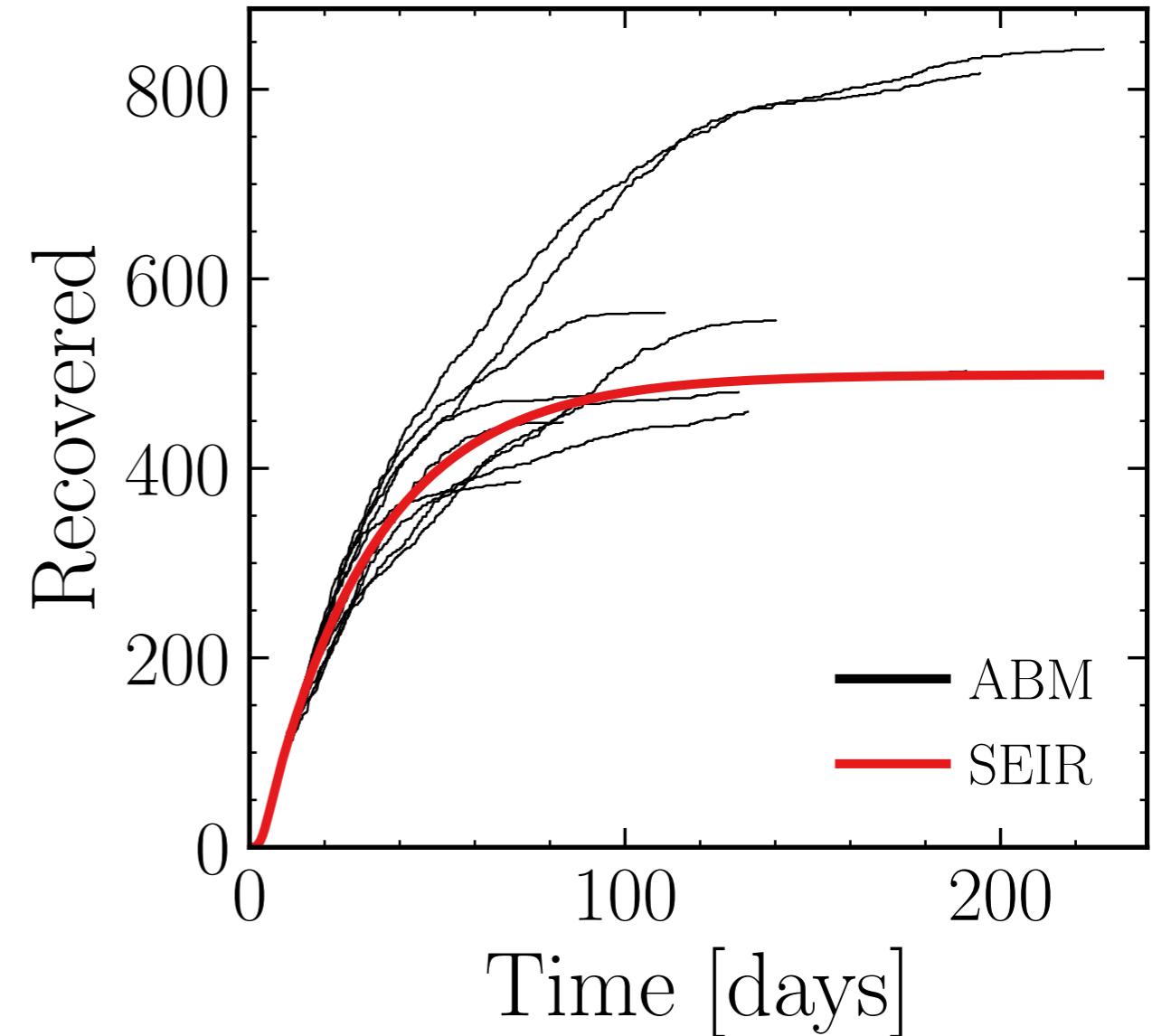


$N_{\text{tot}} = 580K$ ,  $\rho = 0.01$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.005$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (72 \pm 2.3\%) \cdot$$



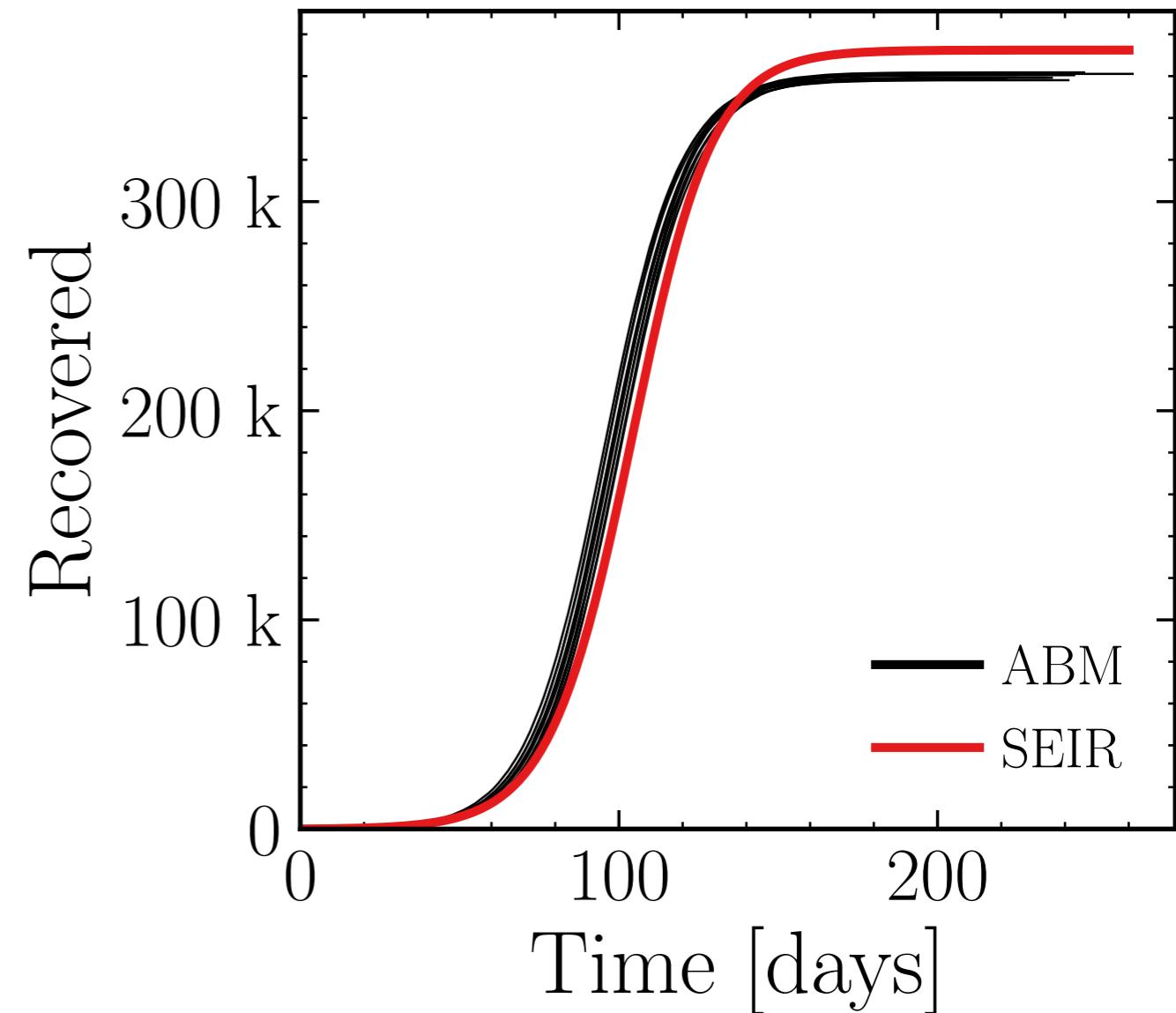
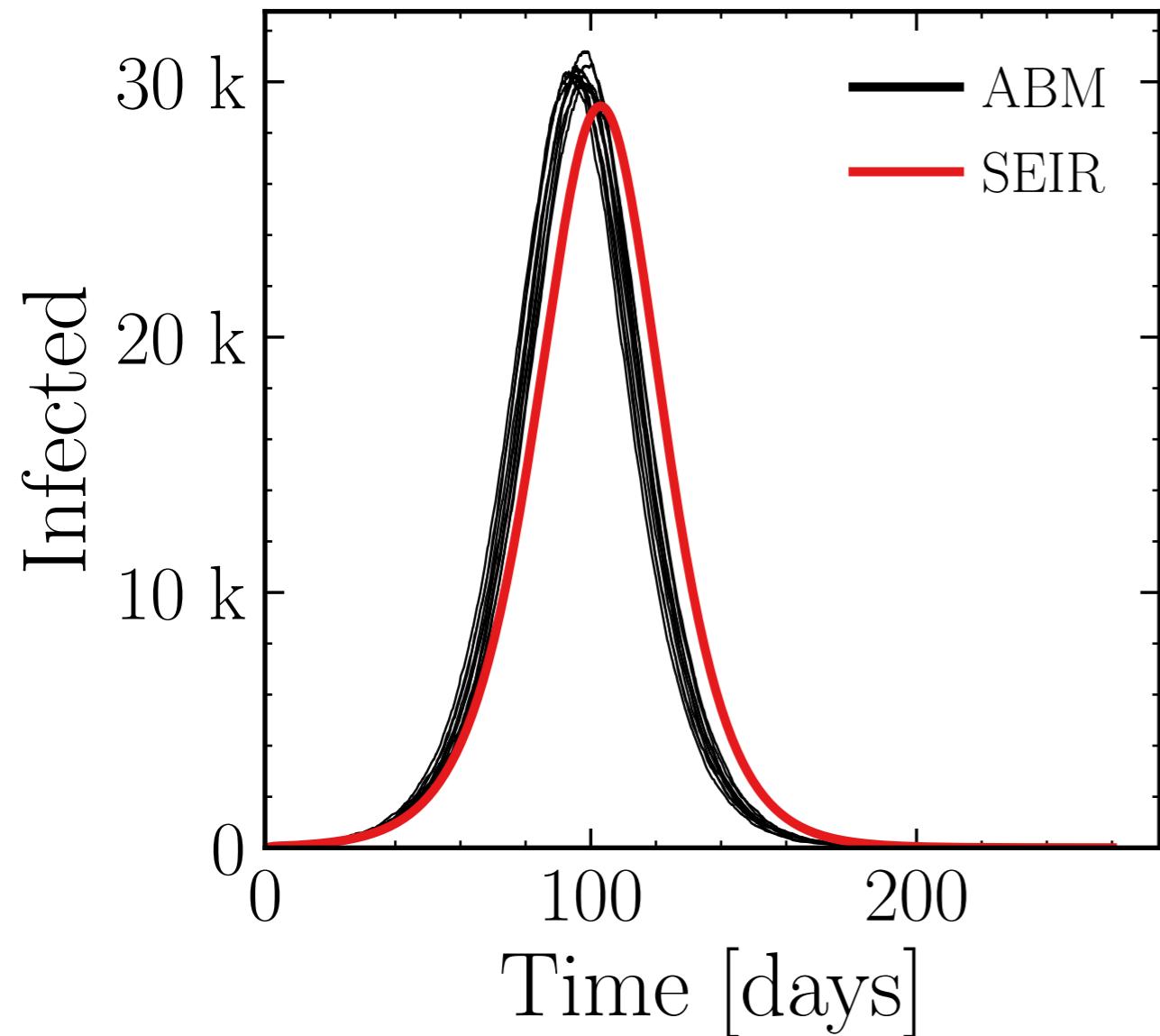
$$R_{\infty}^{\text{ABM}} = (550 \pm 8.5\%) \cdot$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.01$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (30.4 \pm 0.38\%) \cdot 10^3$$

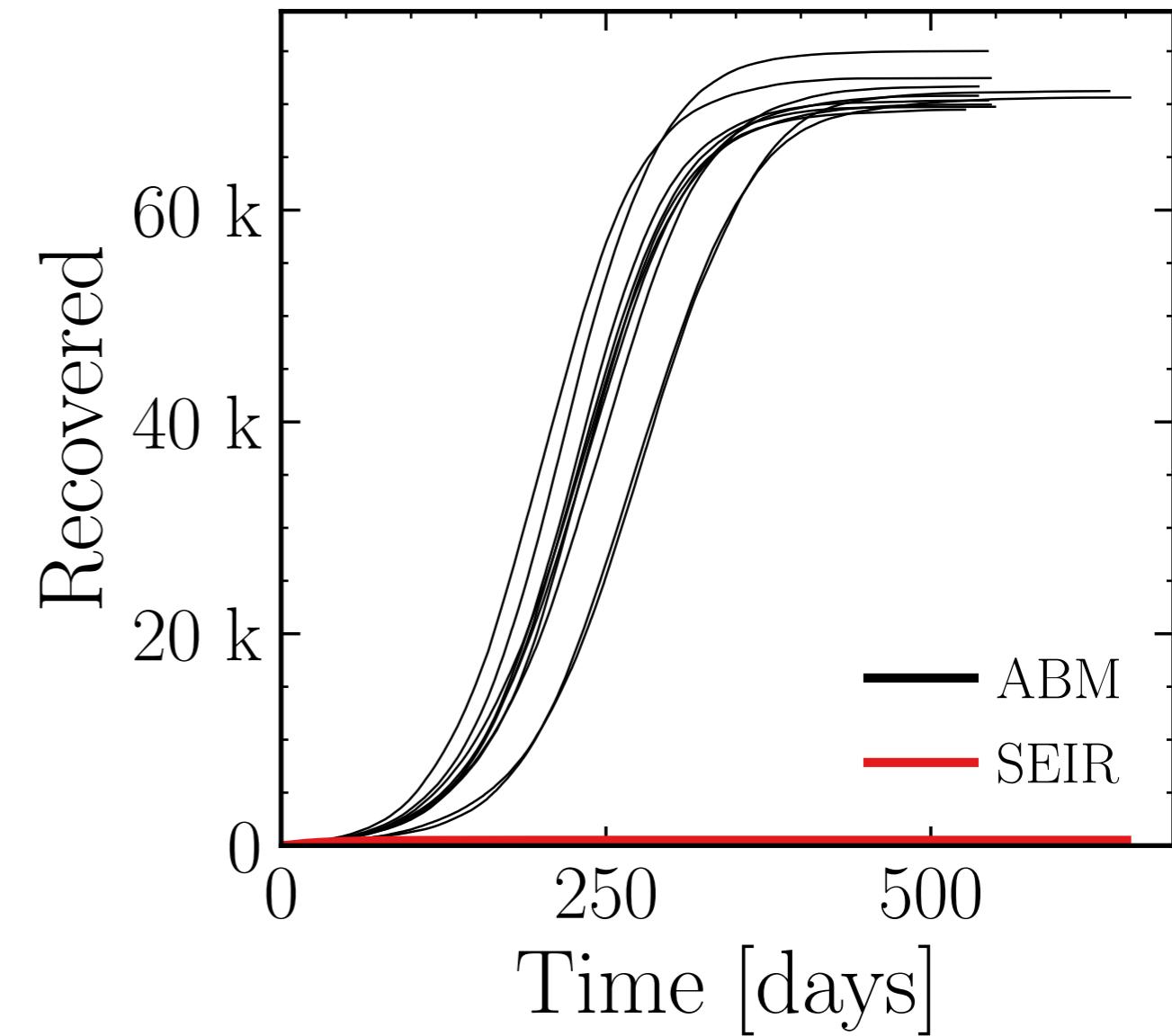
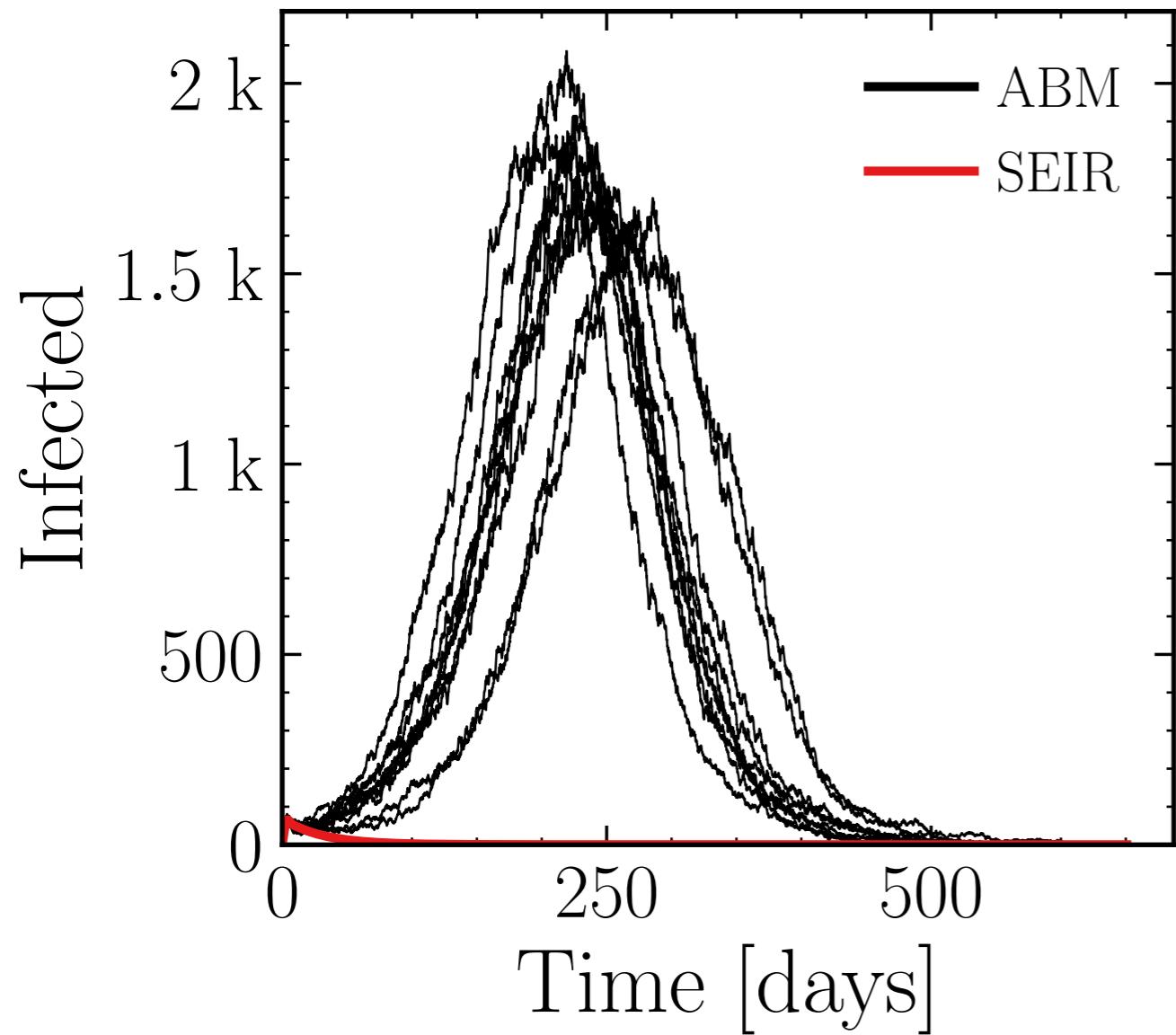
$$R_\infty^{\text{ABM}} = (359.8 \pm 0.11\%) \cdot 10^3$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.025$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.005$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (1.82 \pm 2.3\%) \cdot 10^3$$

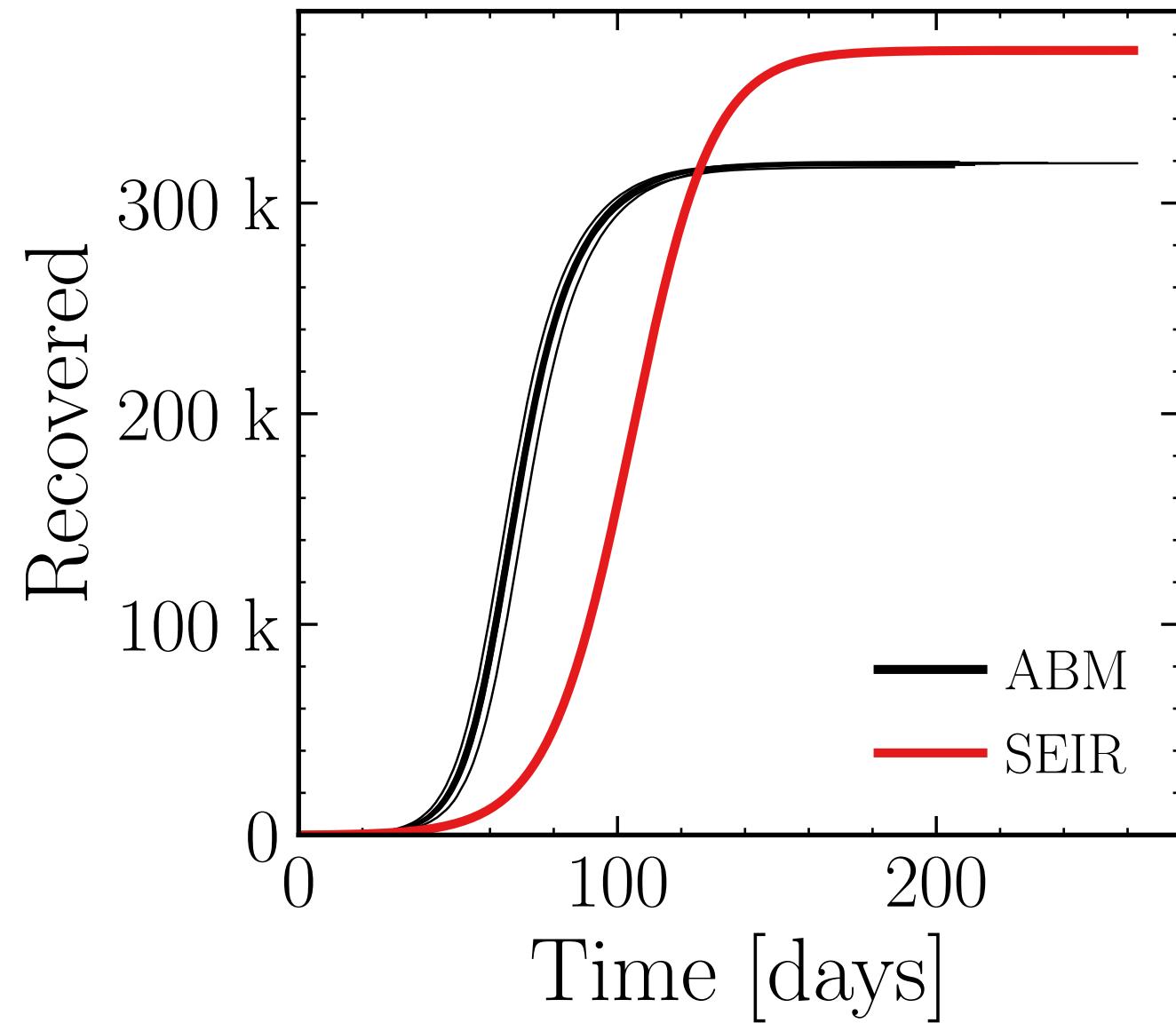
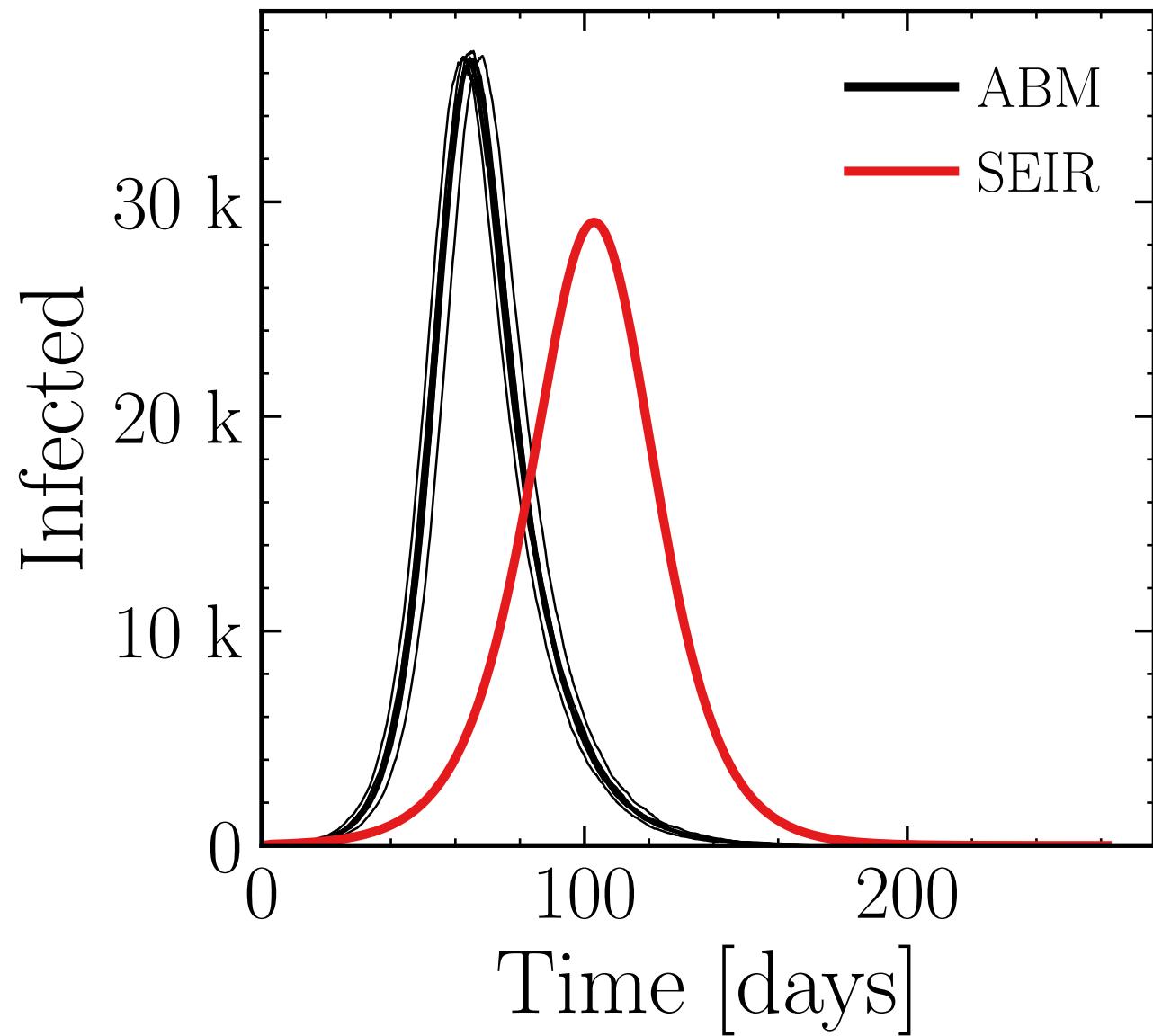
$$R_\infty^{\text{ABM}} = (71.1 \pm 0.69\%) \cdot 10^3$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.025$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

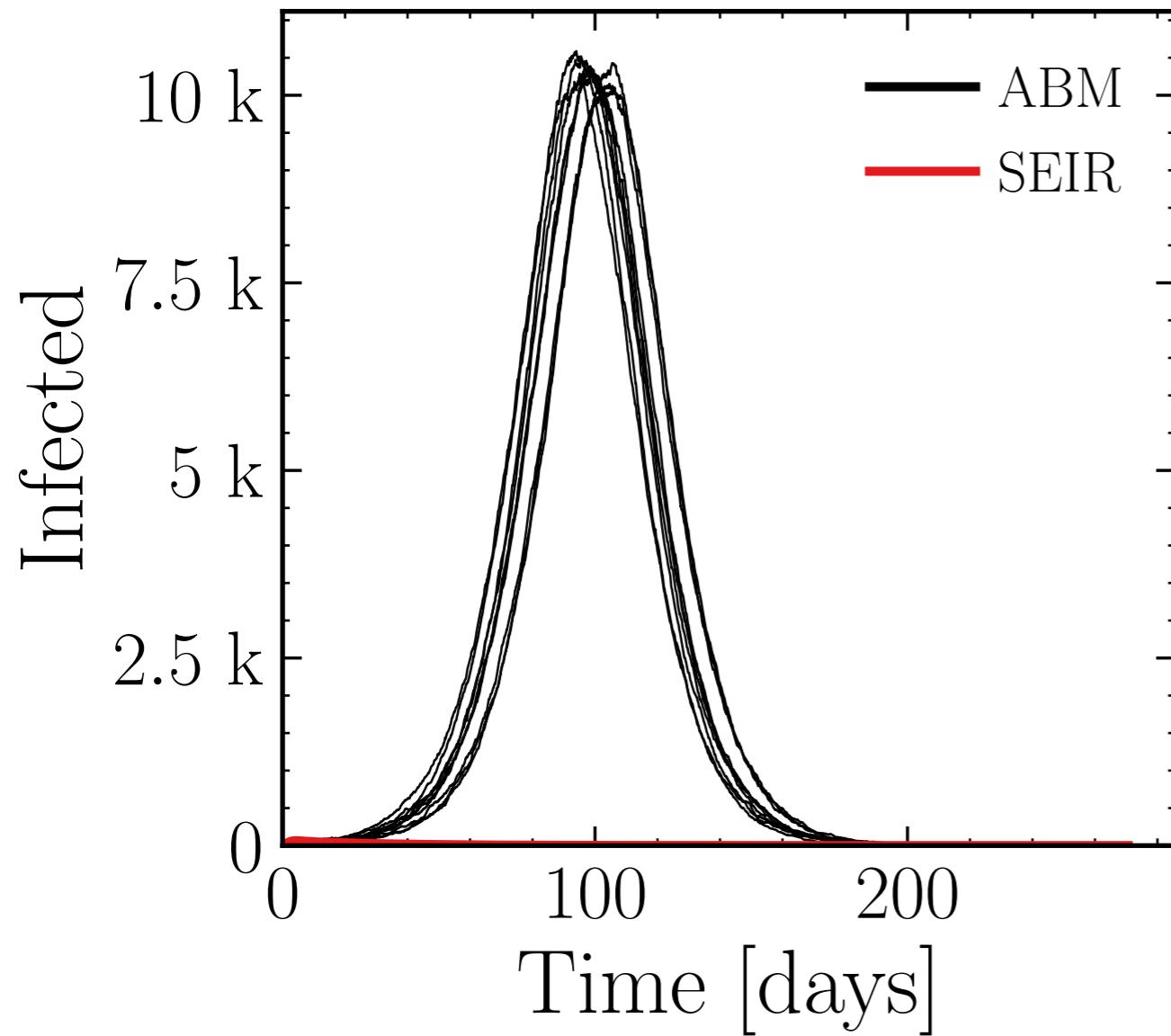
$$I_{\max}^{\text{ABM}} = (36.65 \pm 0.2\%) \cdot 10^3$$

$$R_\infty^{\text{ABM}} = (318.7 \pm 0.065\%) \cdot 10^3$$

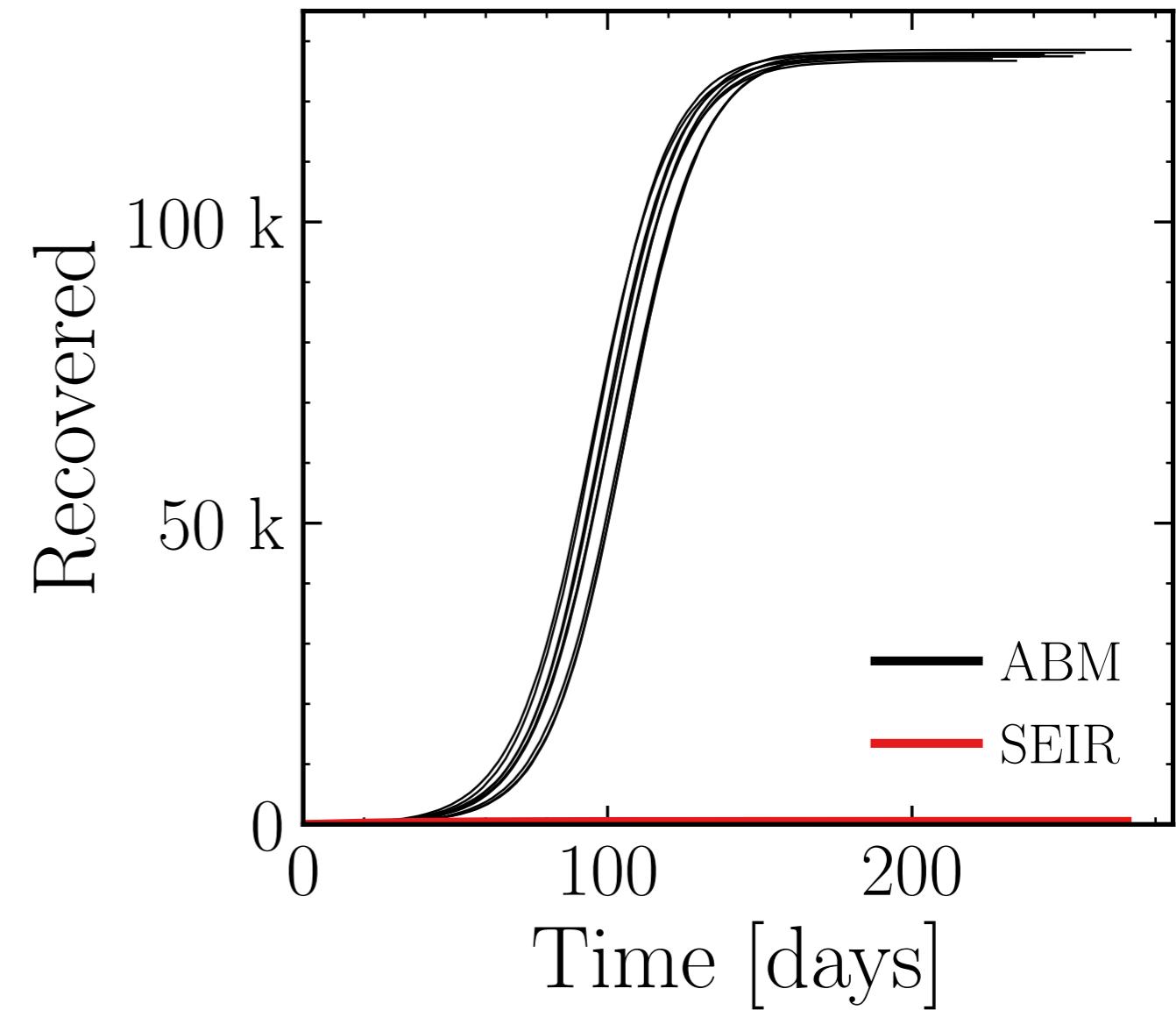


$N_{\text{tot}} = 580K$ ,  $\rho = 0.05$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.005$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\text{max}}^{\text{ABM}} = (10.34 \pm 0.44\%) \cdot 10^3$$

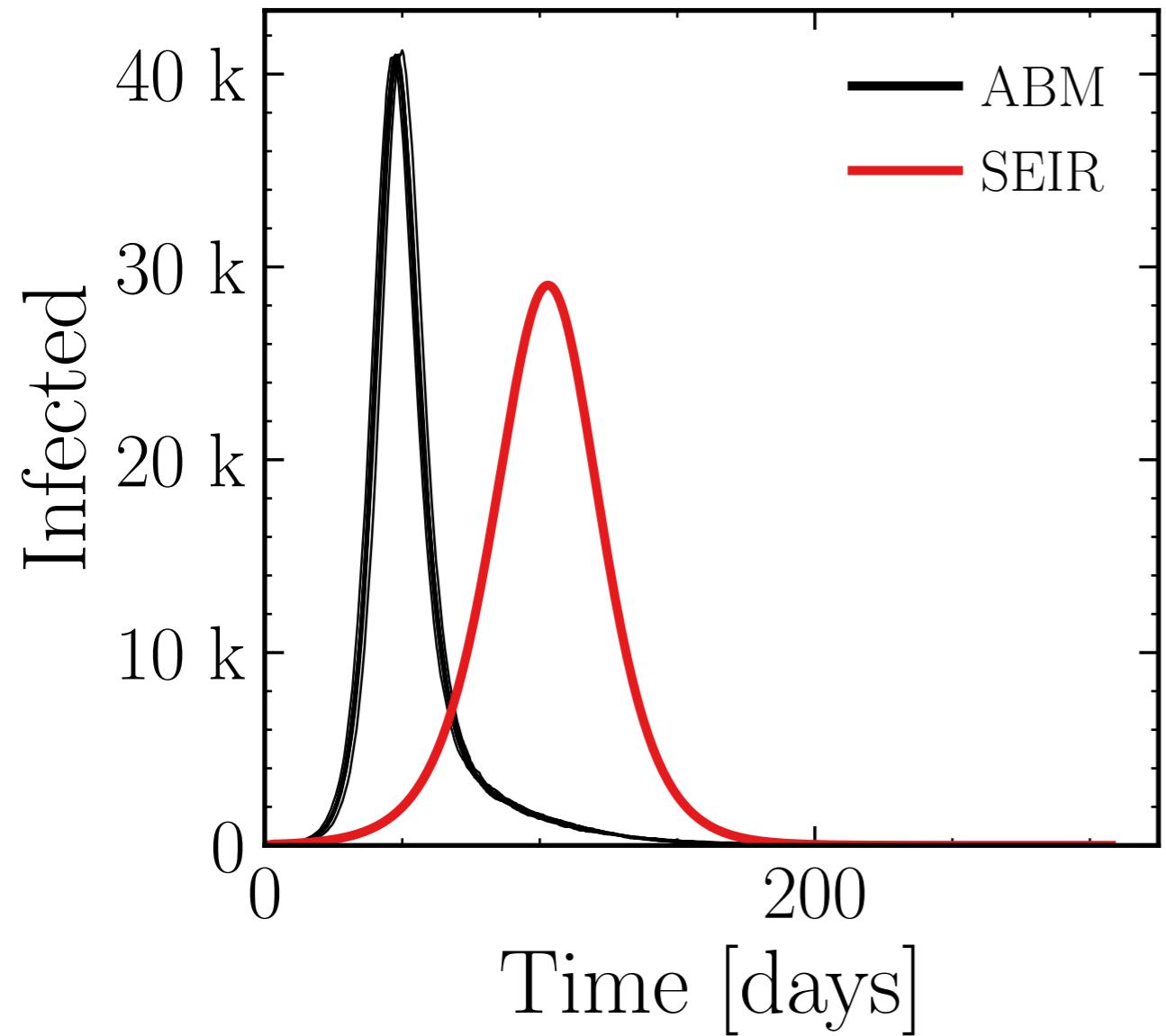


$$R_{\infty}^{\text{ABM}} = (127.7 \pm 0.12\%) \cdot 10^3$$

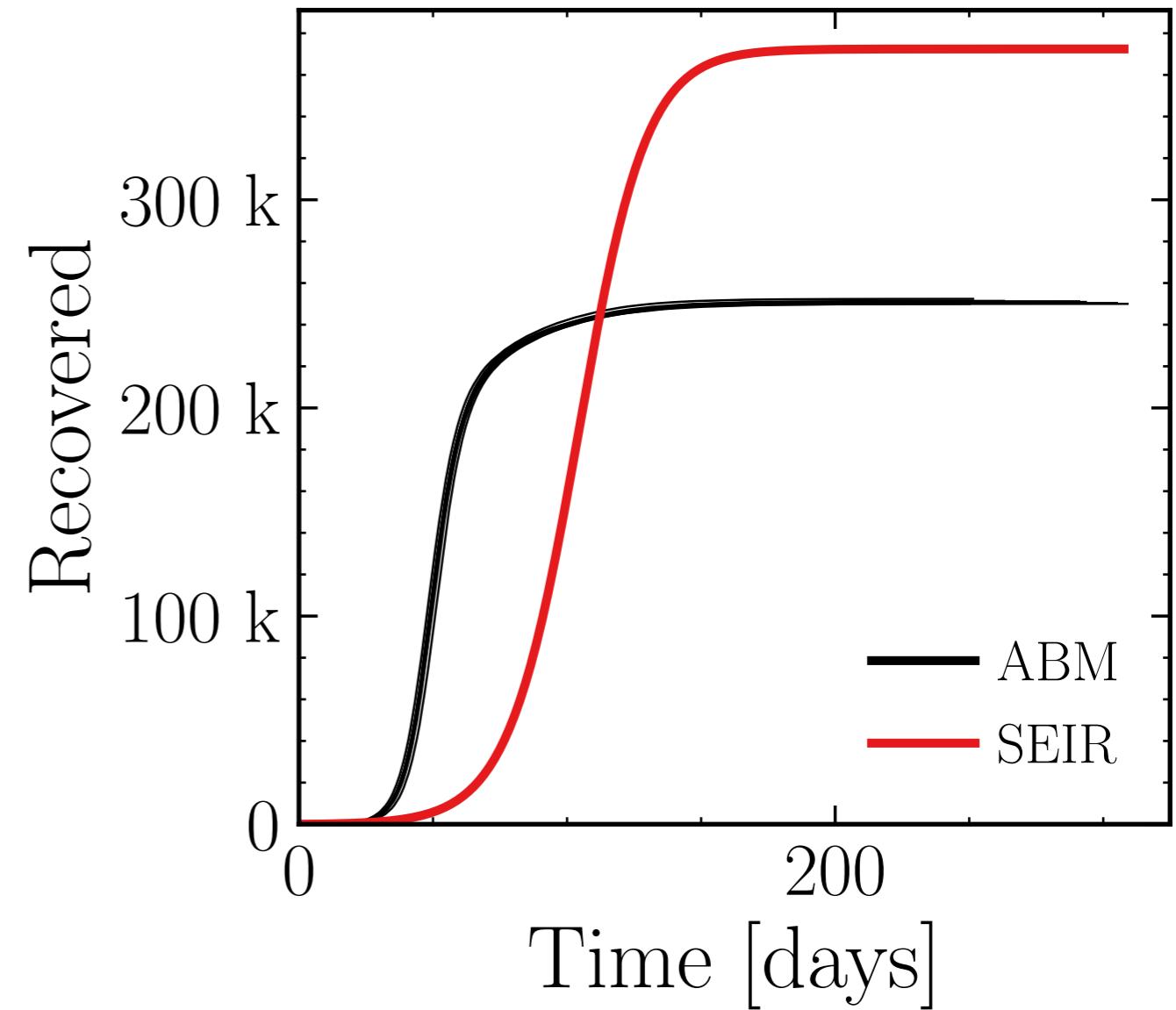


$N_{\text{tot}} = 580K$ ,  $\rho = 0.05$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (40.87 \pm 0.16\%) \cdot 10^3$$



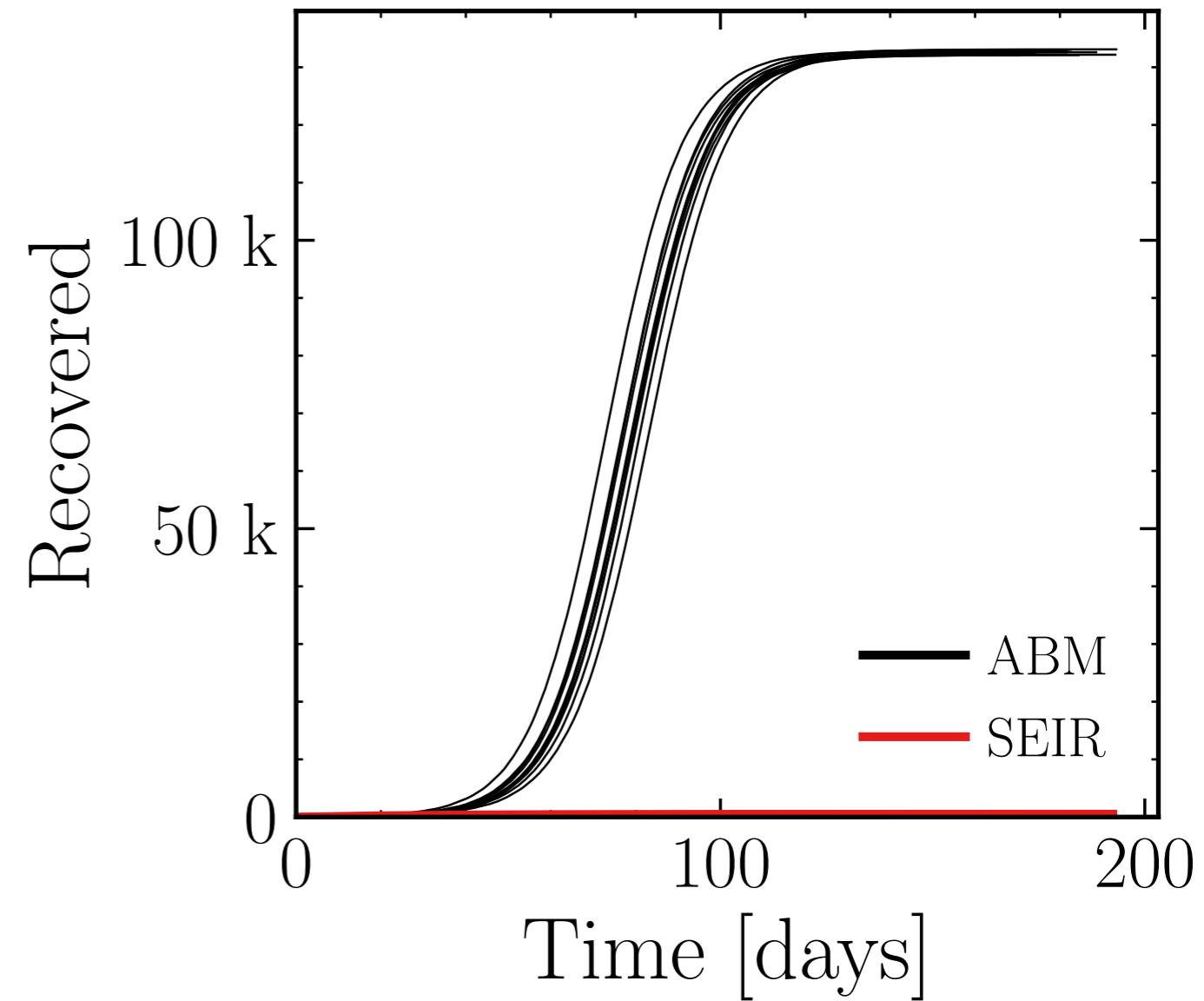
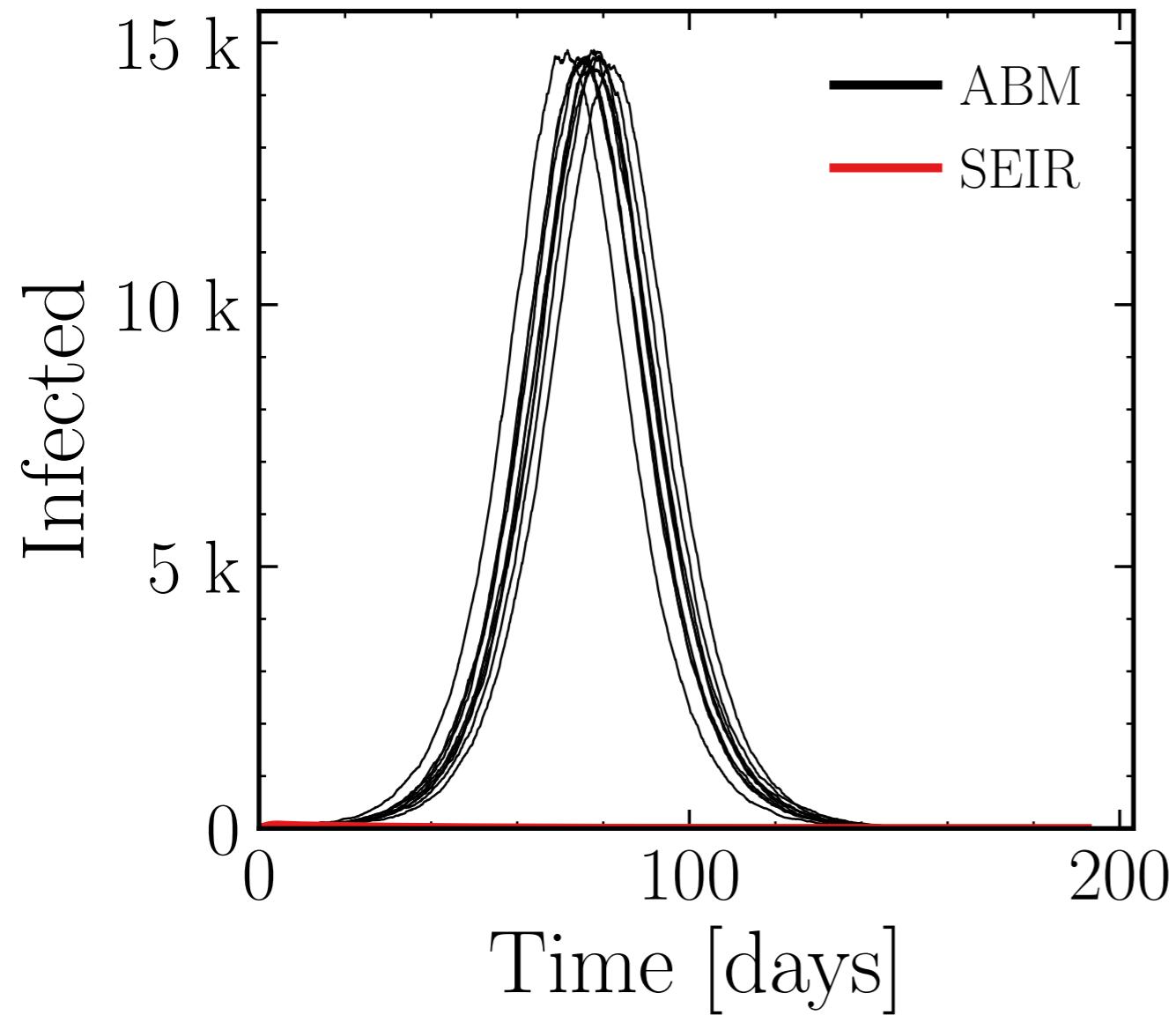
$$R_\infty^{\text{ABM}} = (250.8 \pm 0.087\%) \cdot 10^3$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.075$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.005$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (14.7 \pm 0.24\%) \cdot 10^3$$

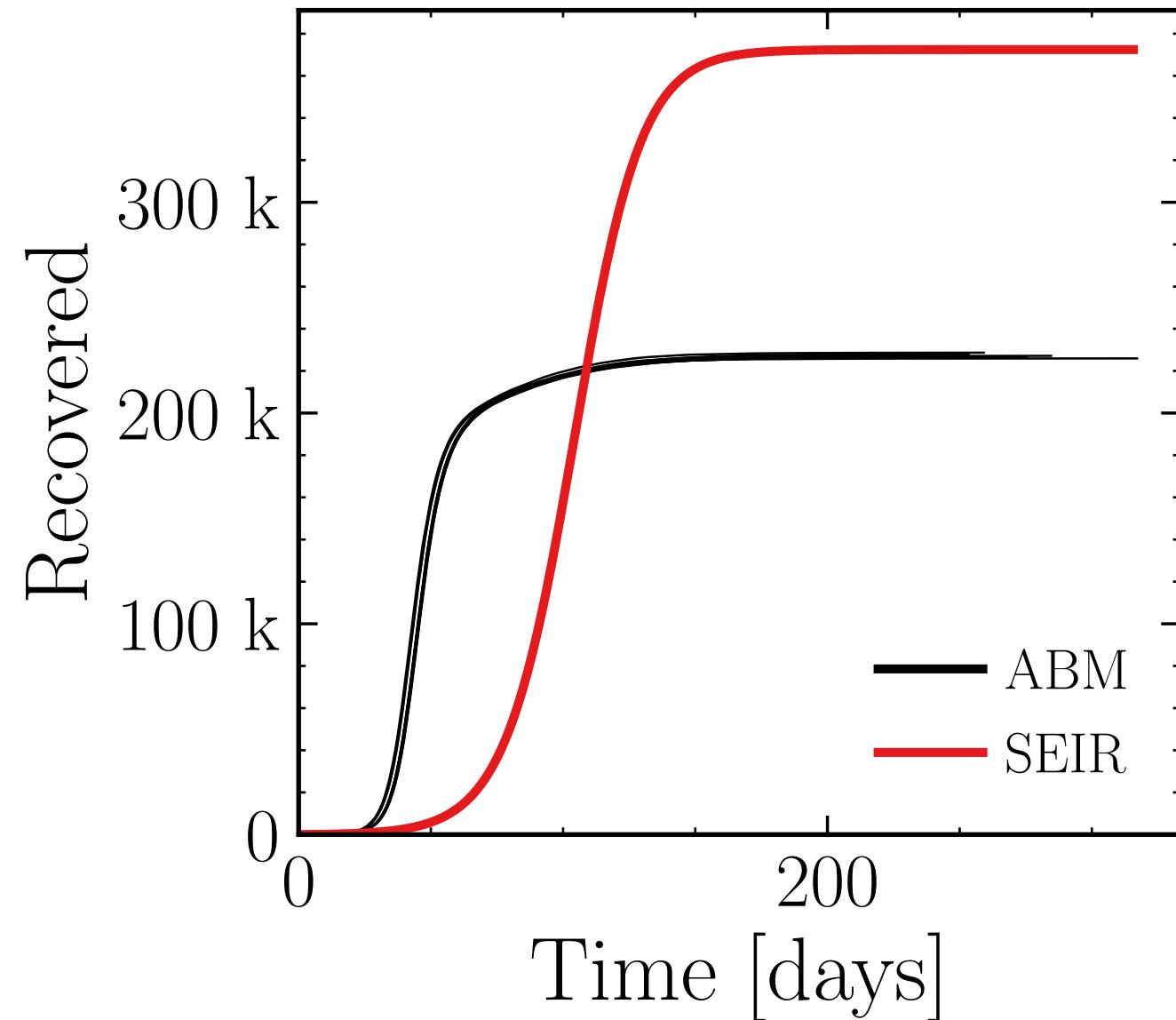
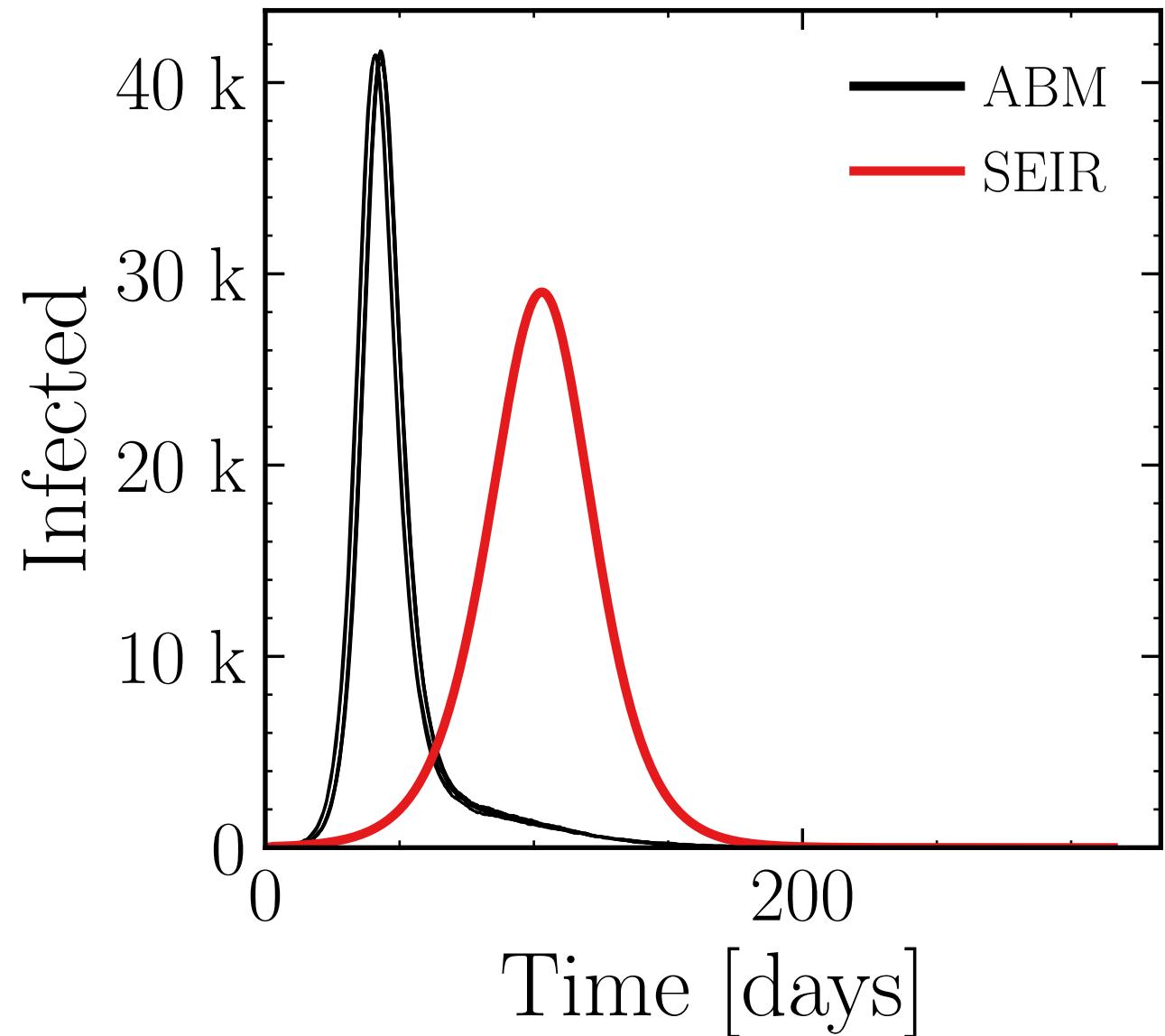
$$R_\infty^{\text{ABM}} = (132.6 \pm 0.088\%) \cdot 10^3$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.075$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

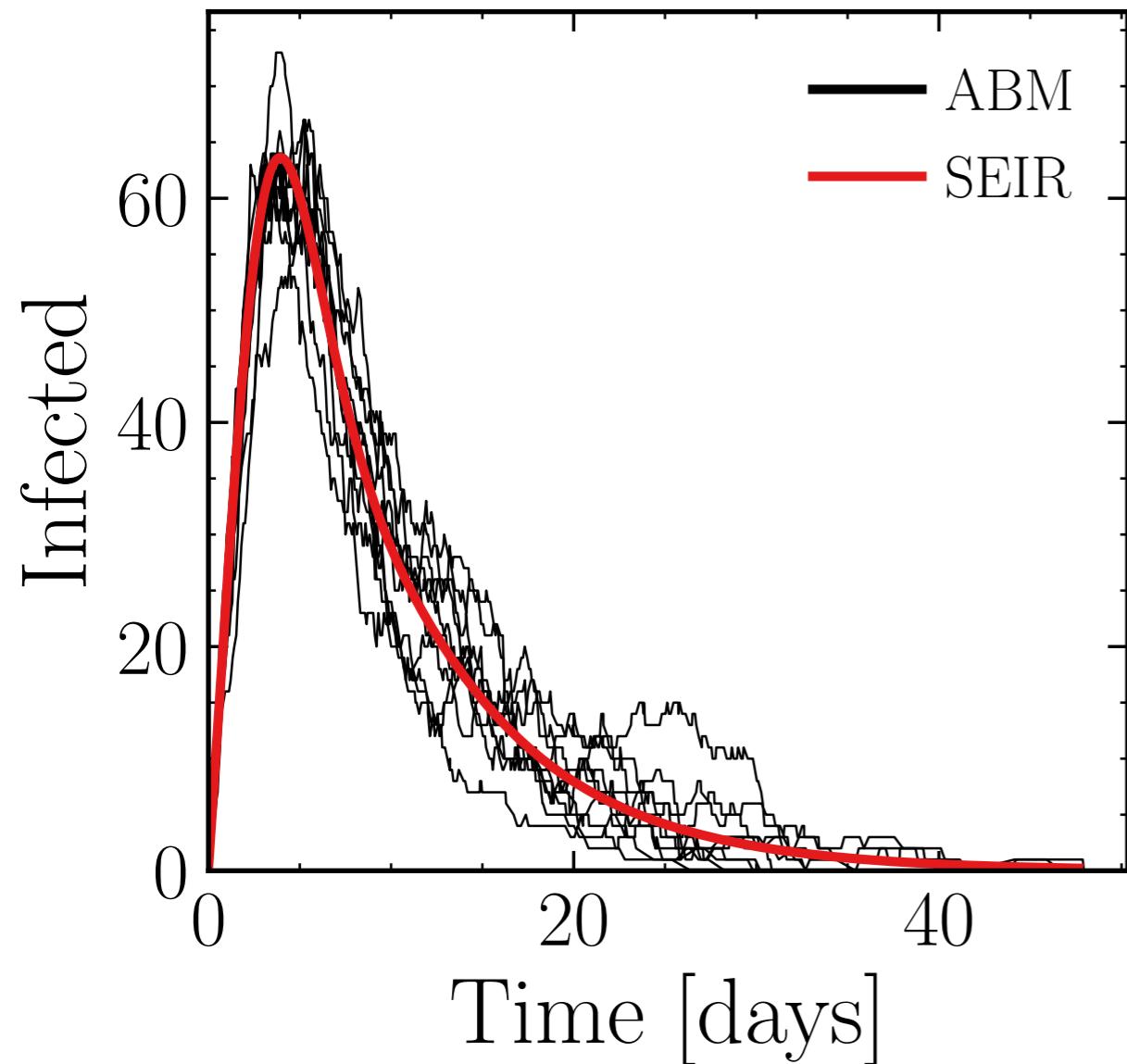
$$I_{\max}^{\text{ABM}} = (41.47 \pm 0.14\%) \cdot 10^3$$

$$R_\infty^{\text{ABM}} = (226.9 \pm 0.11\%) \cdot 10^3$$

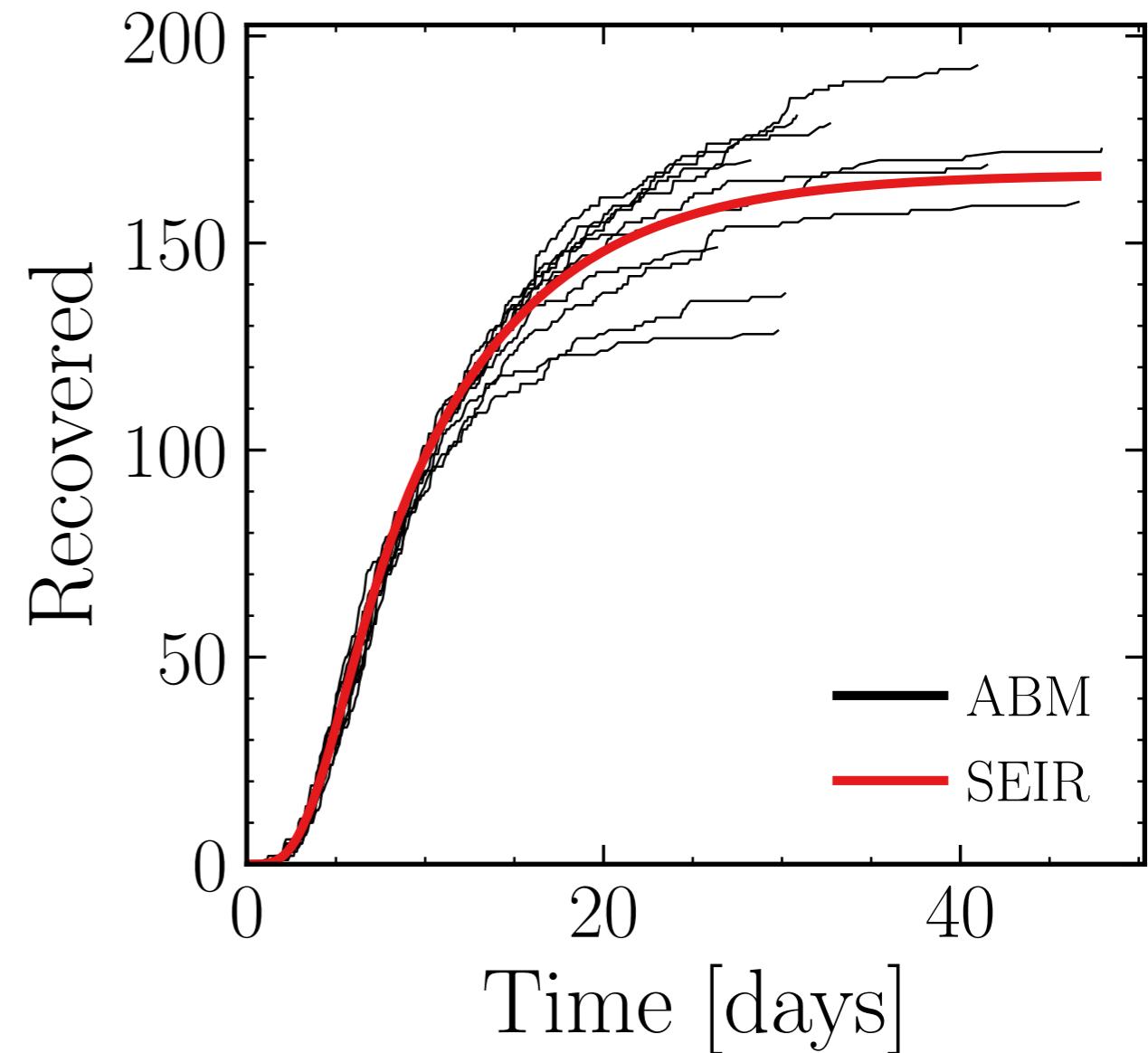


$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 10.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (65 \pm 1.6\%) \cdot$$

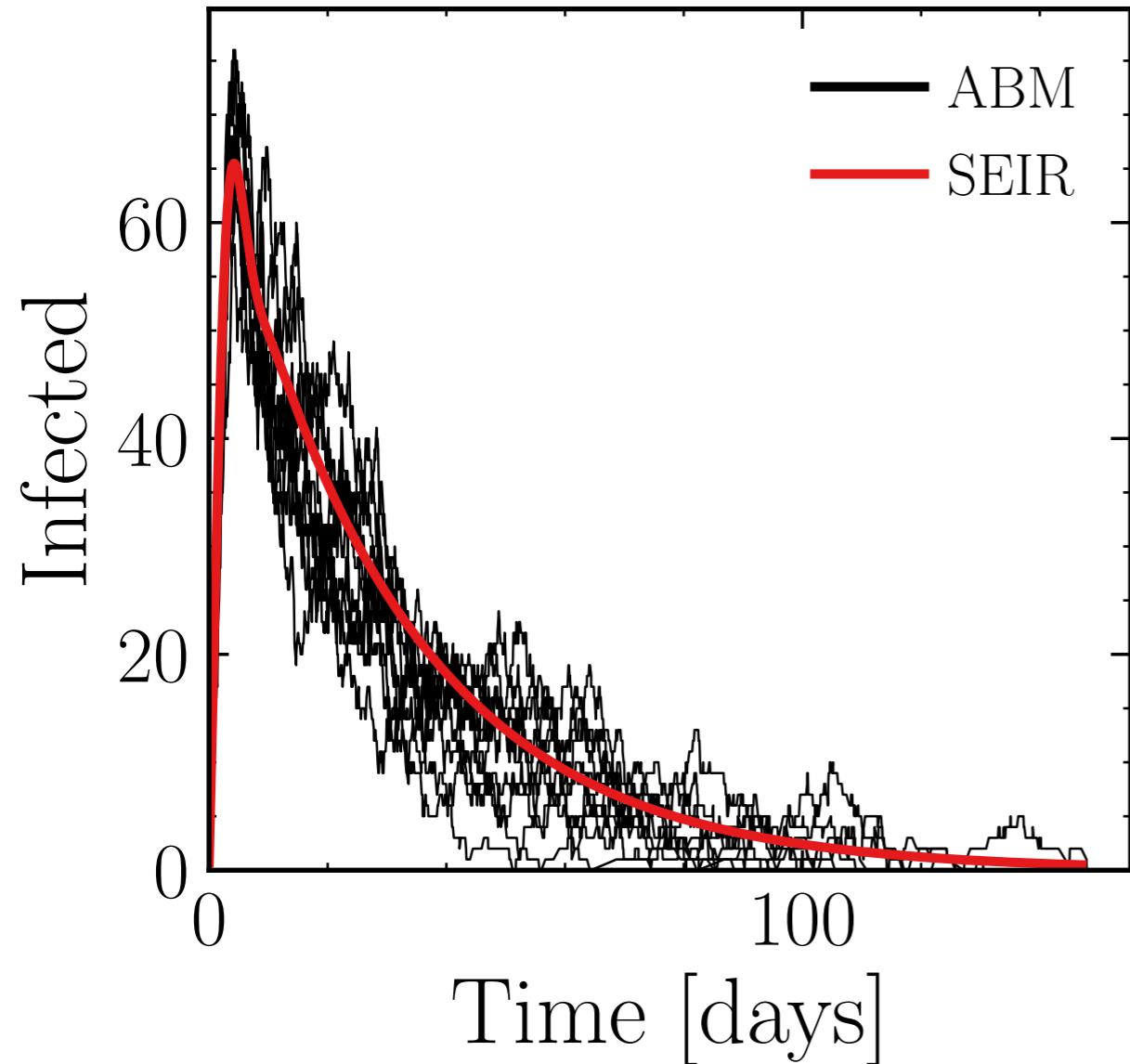


$$R_{\infty}^{\text{ABM}} = (164 \pm 3.7\%) \cdot$$

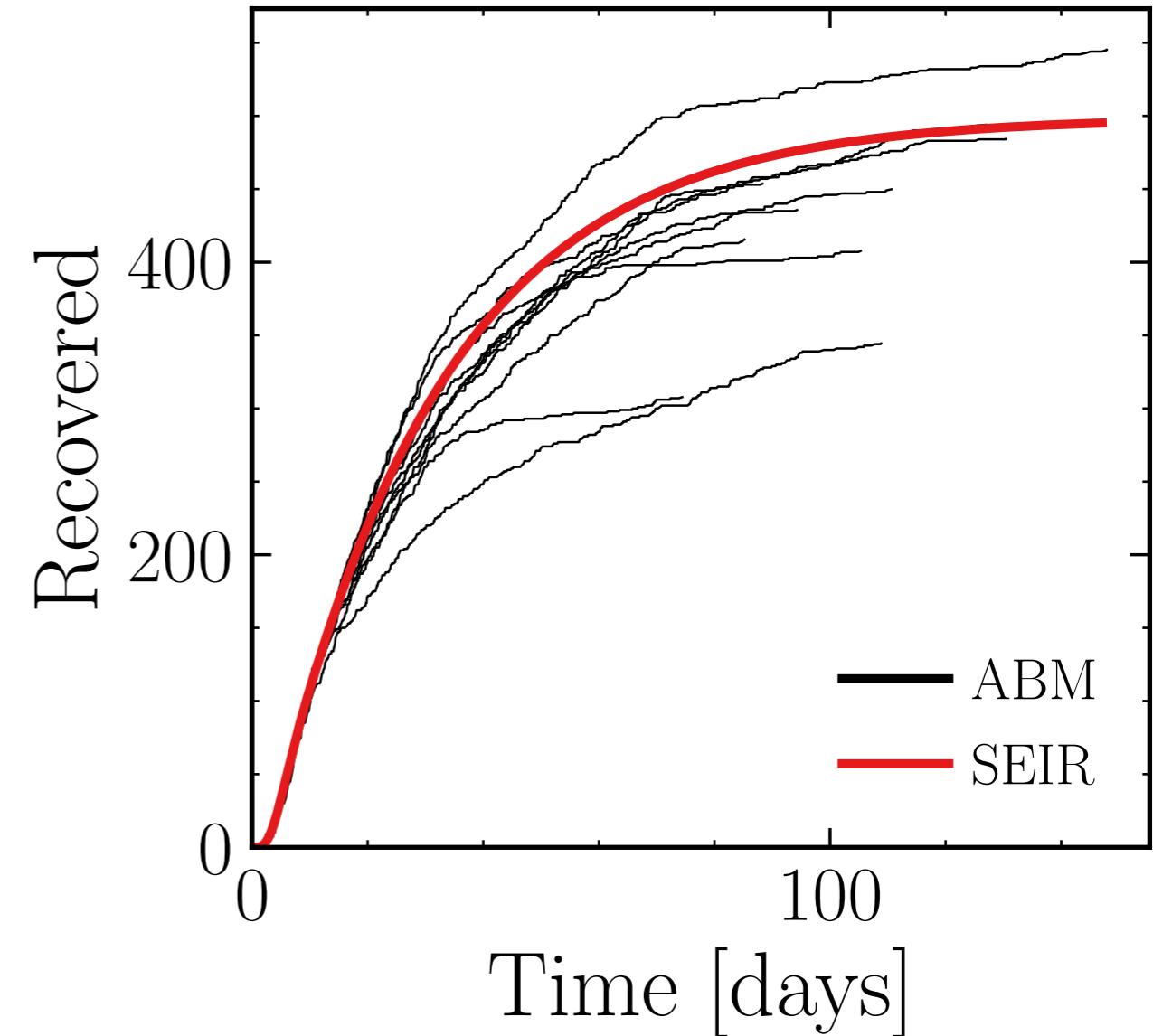


$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 10.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.02$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (70 \pm 1.8\%) \cdot$$

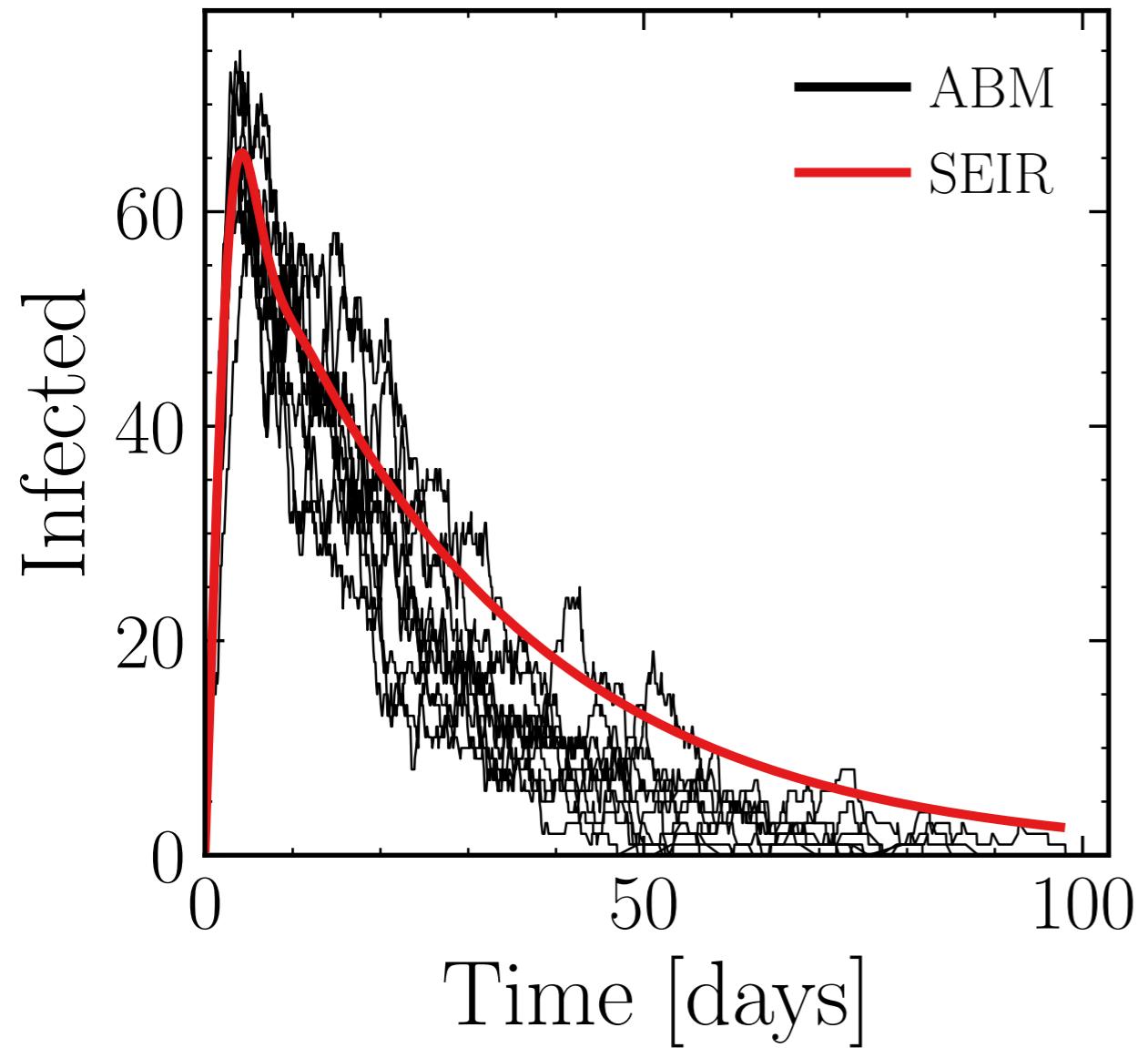


$$R_\infty^{\text{ABM}} = (430 \pm 4.8\%) \cdot$$

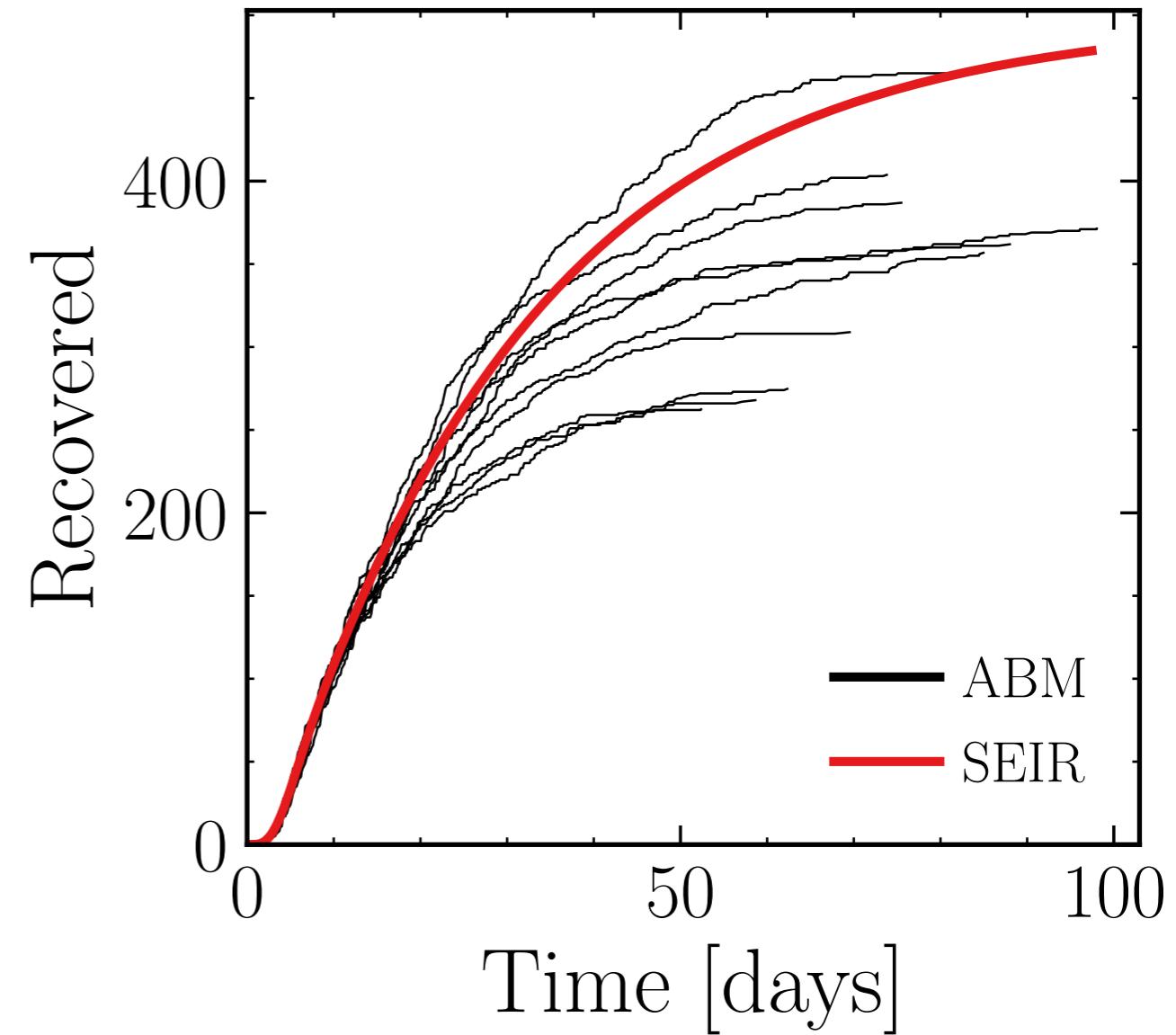


$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 10.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.02$ ,  $\sigma_\beta = 1.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (69 \pm 1.9\%) \cdot$$



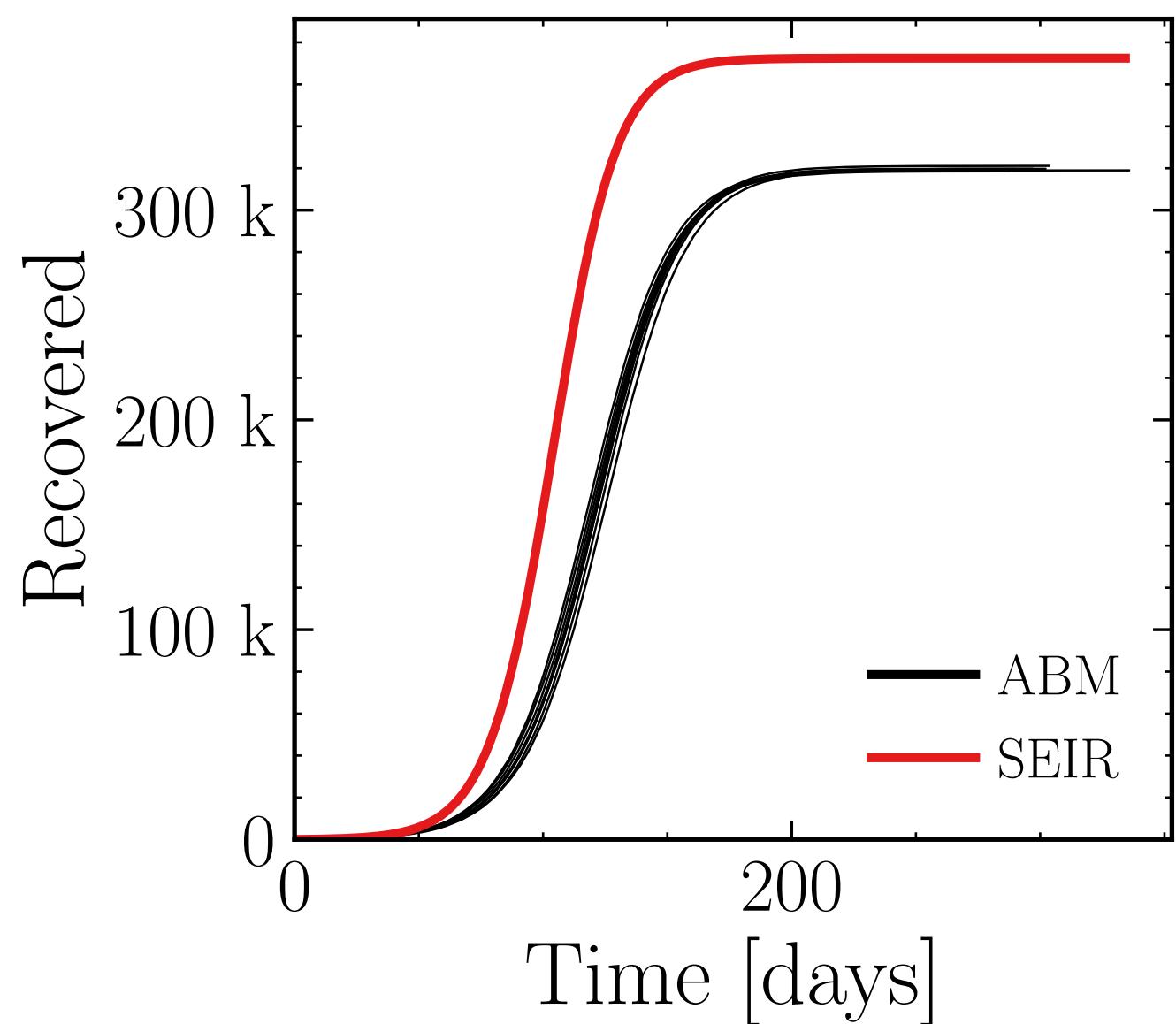
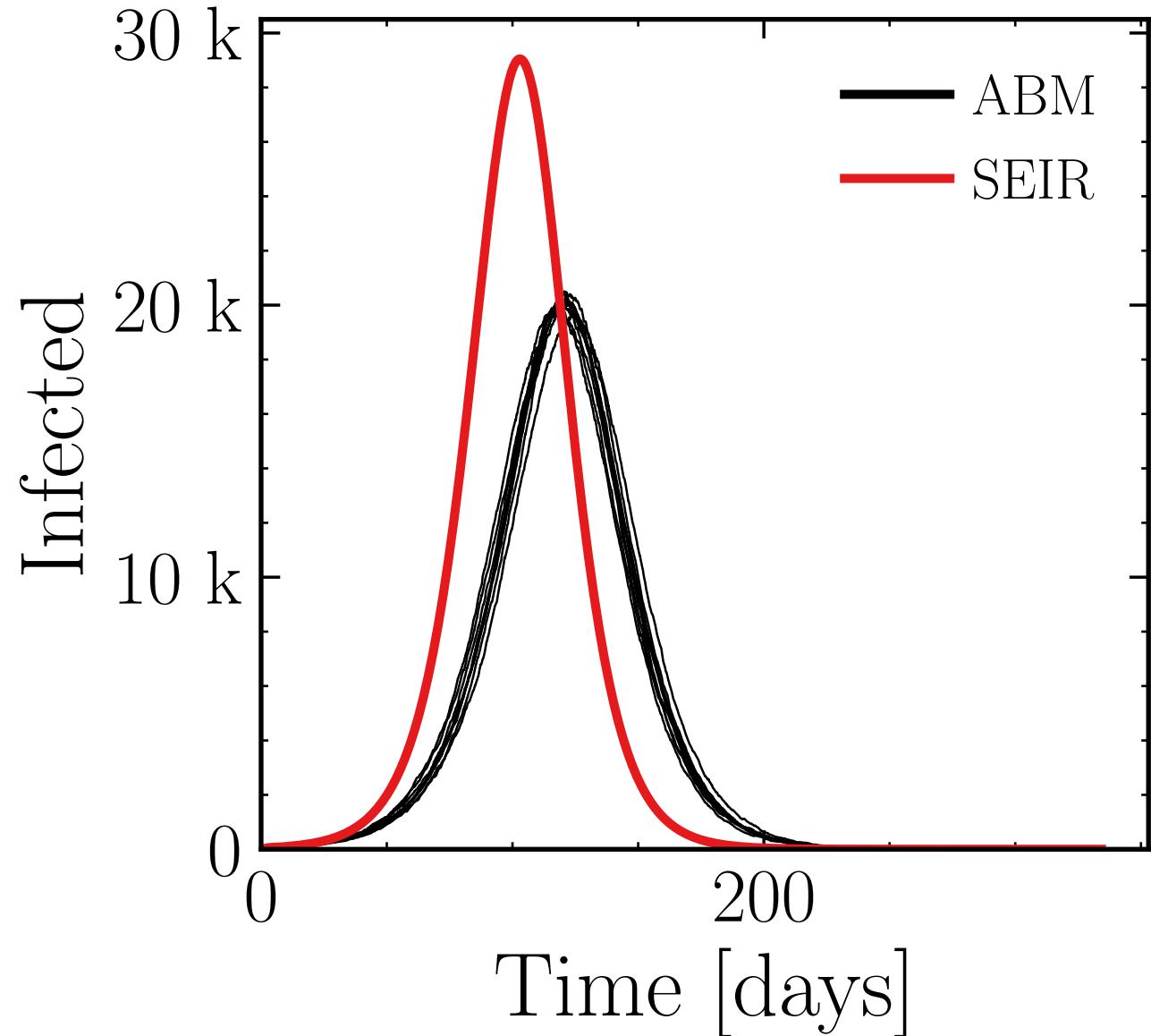
$$R_\infty^{\text{ABM}} = (350 \pm 5.8\%) \cdot$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 10.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.04$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

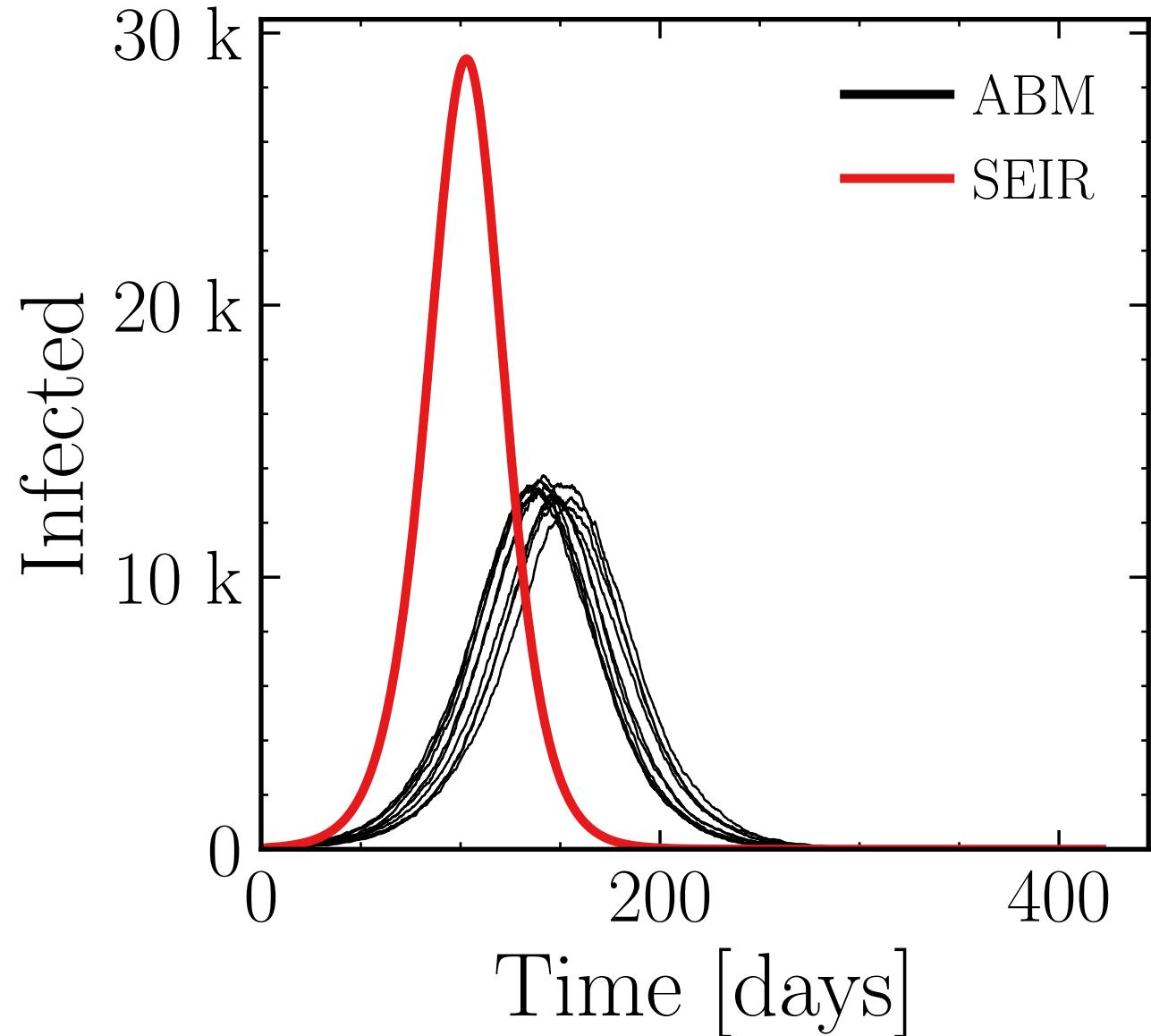
$$I_{\max}^{\text{ABM}} = (20.1 \pm 0.41\%) \cdot 10^3$$

$$R_\infty^{\text{ABM}} = (319.4 \pm 0.069\%) \cdot 10^3$$

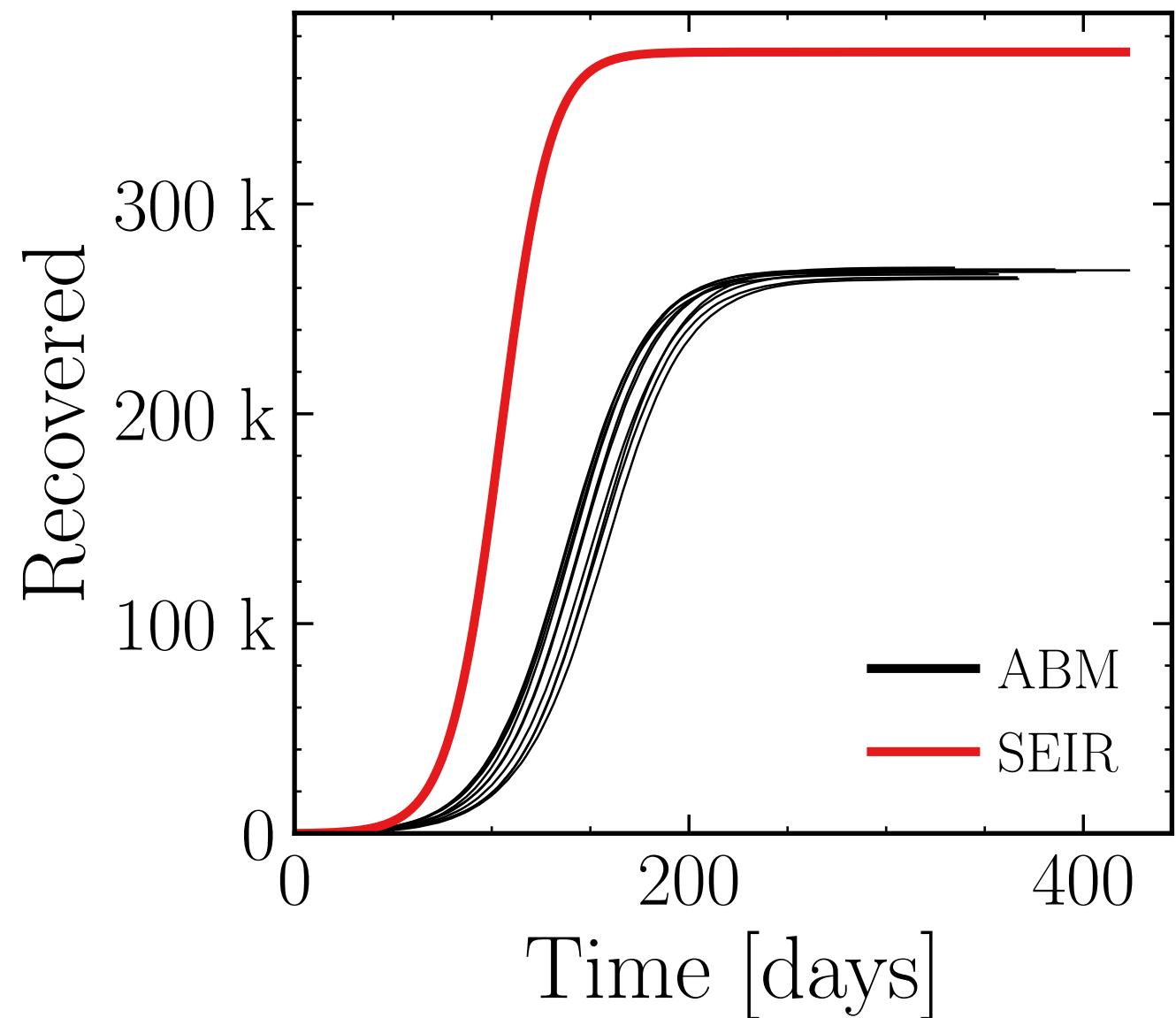


$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 10.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.04$ ,  $\sigma_\beta = 1.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (13.28 \pm 0.67\%) \cdot 10^3$$

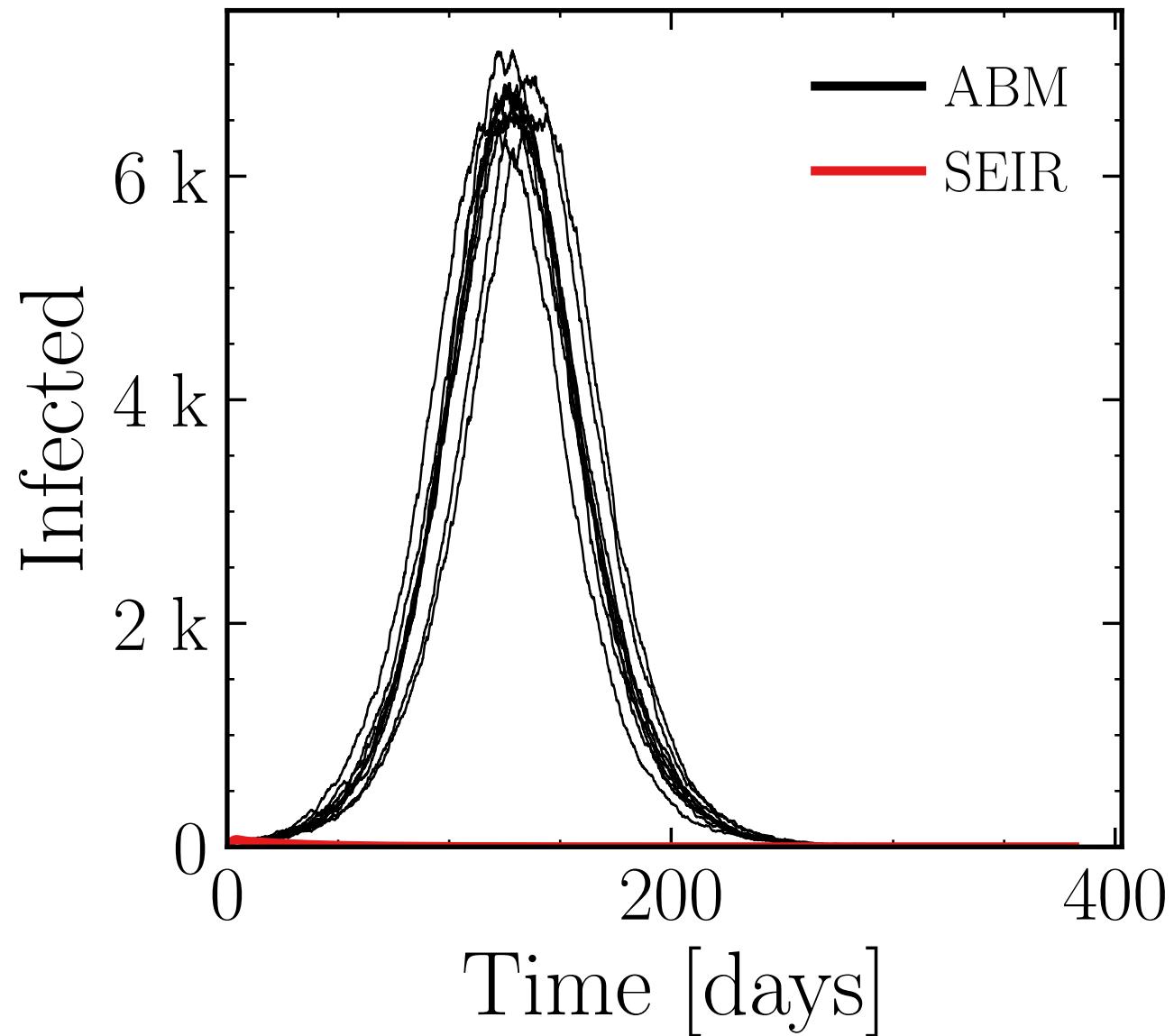


$$R_\infty^{\text{ABM}} = (267.5 \pm 0.19\%) \cdot 10^3$$

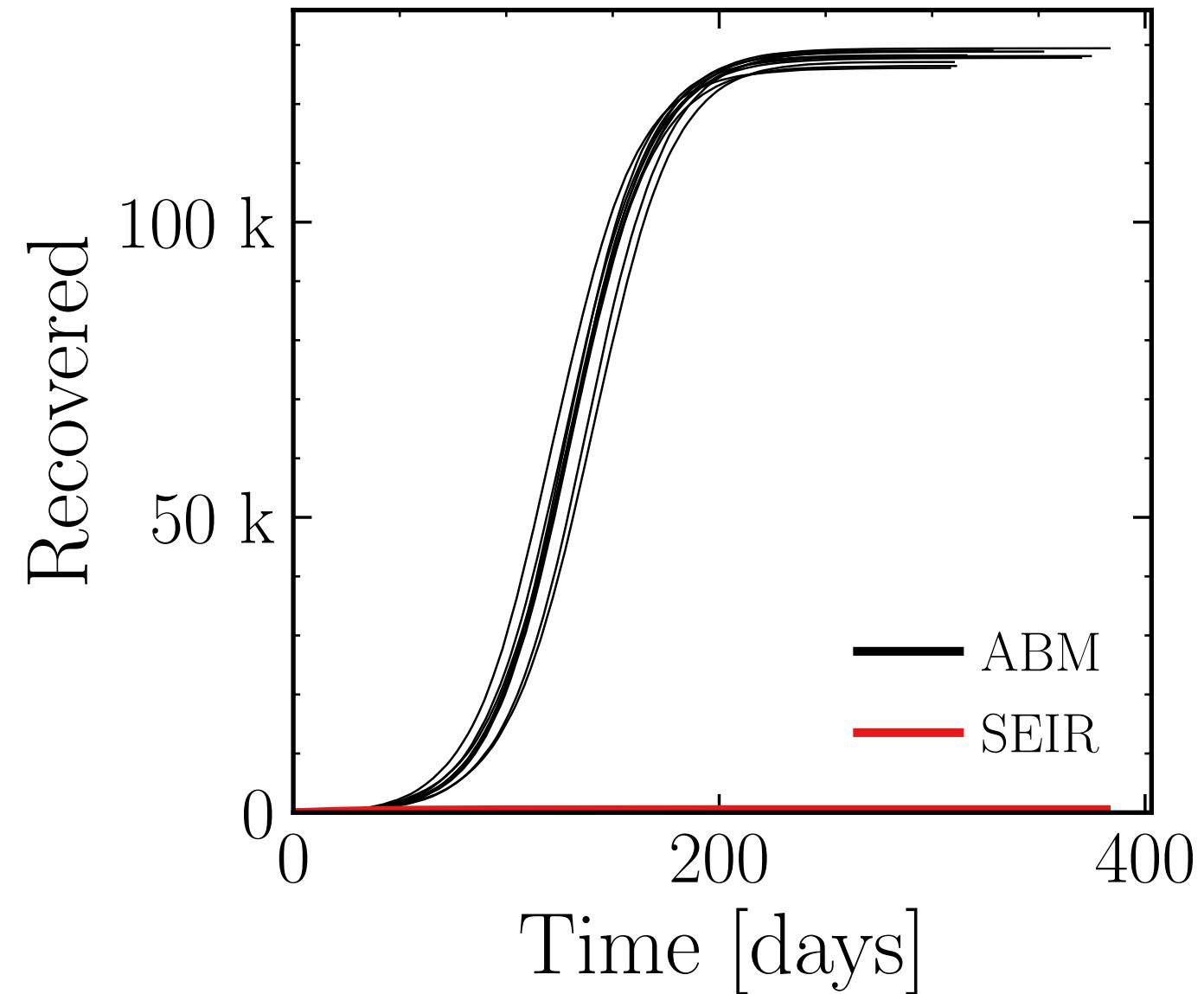


$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 10.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.02$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (6.75 \pm 0.86\%) \cdot 10^3$$

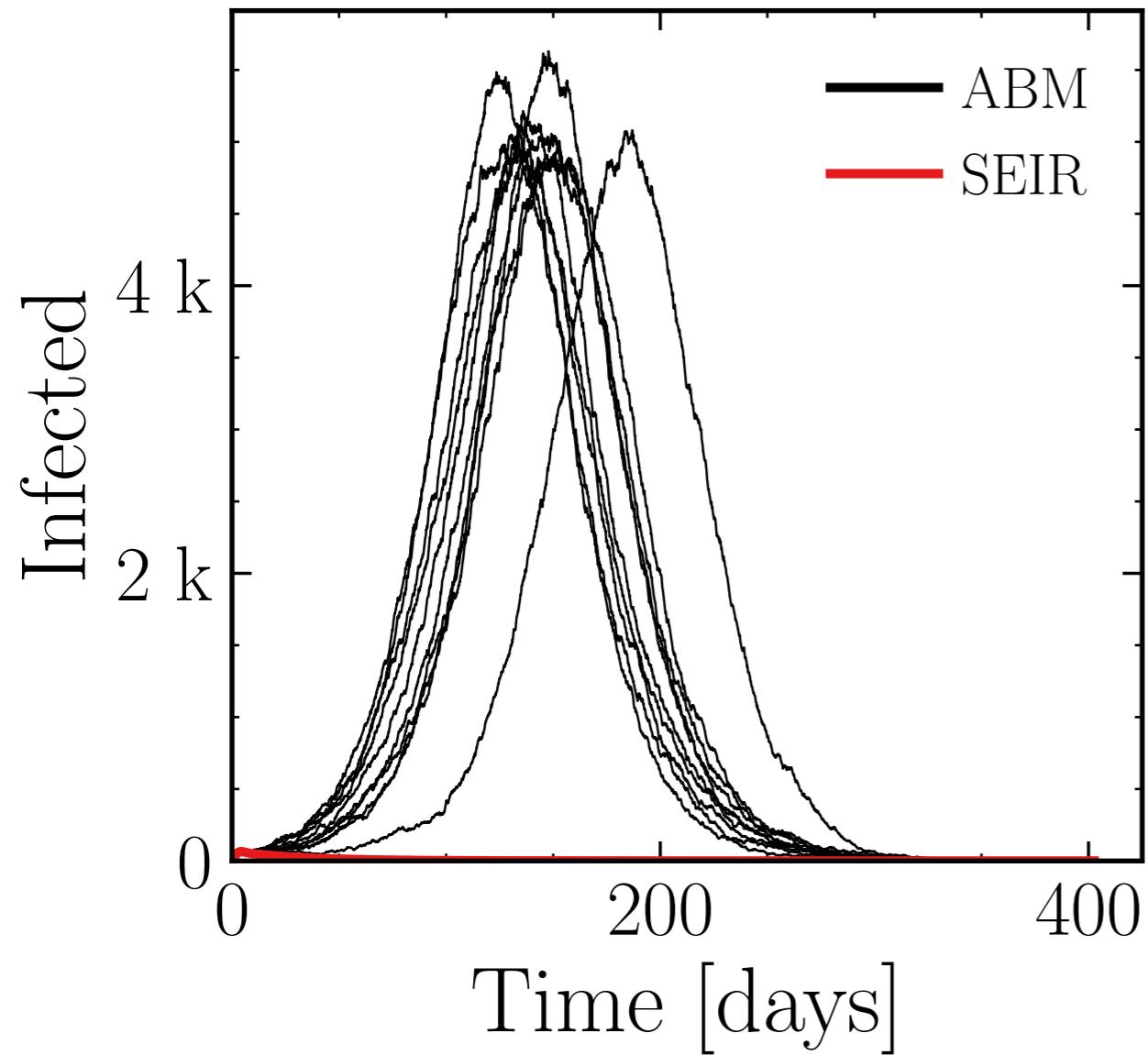


$$R_{\infty}^{\text{ABM}} = (128 \pm 0.27\%) \cdot 10^3$$

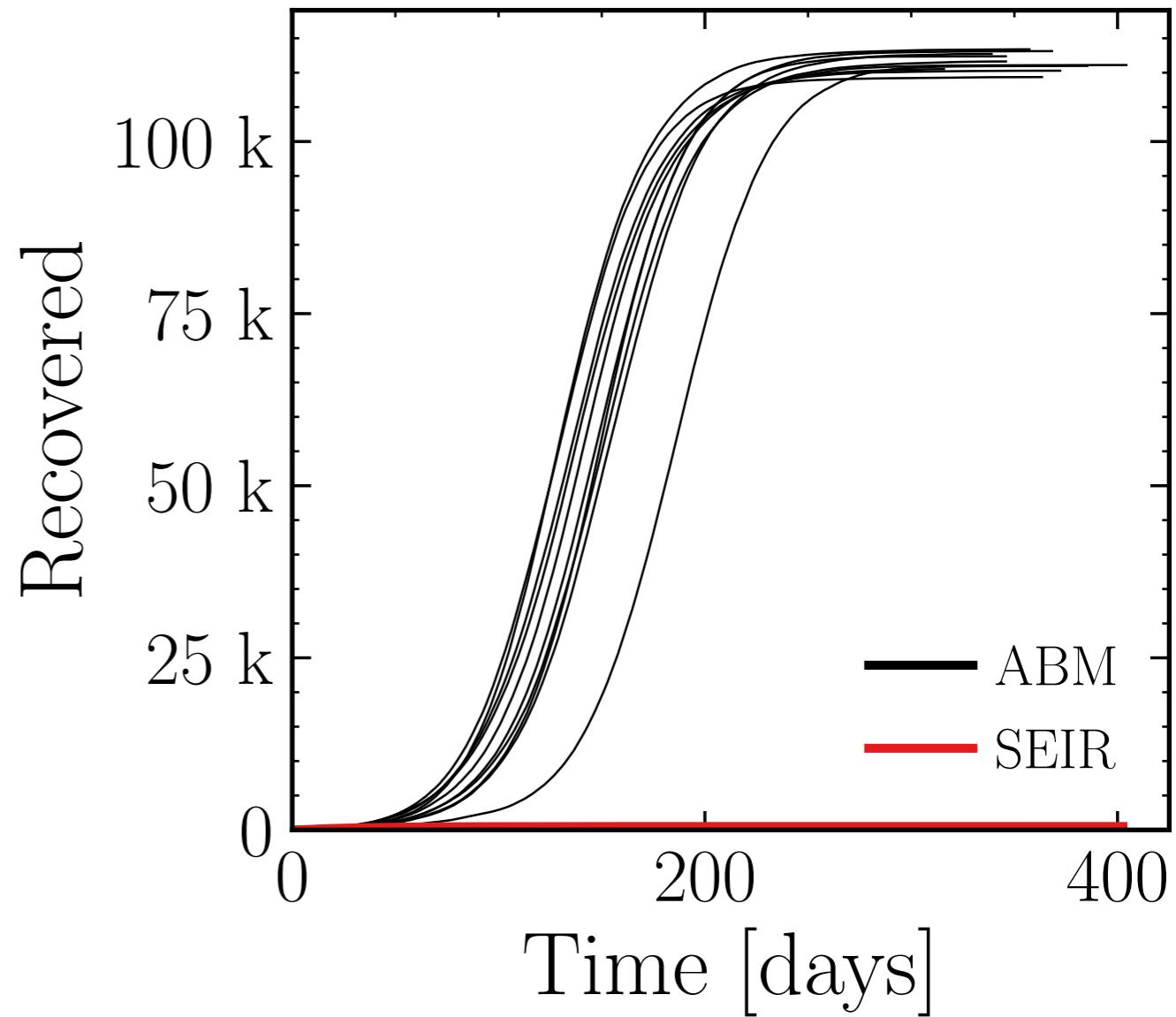


$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 10.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.02$ ,  $\sigma_\beta = 1.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (5.14 \pm 1.4\%) \cdot 10^3$$



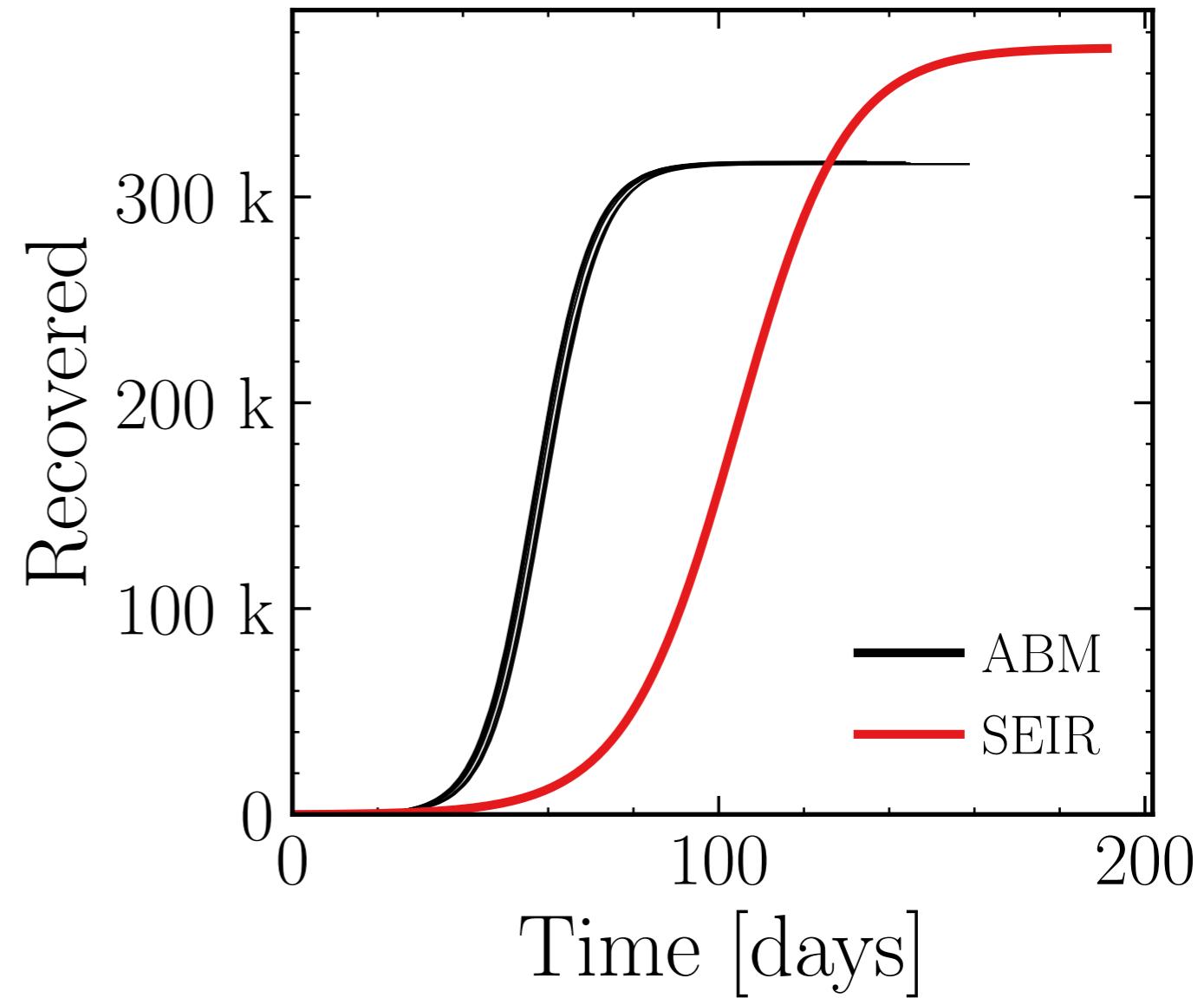
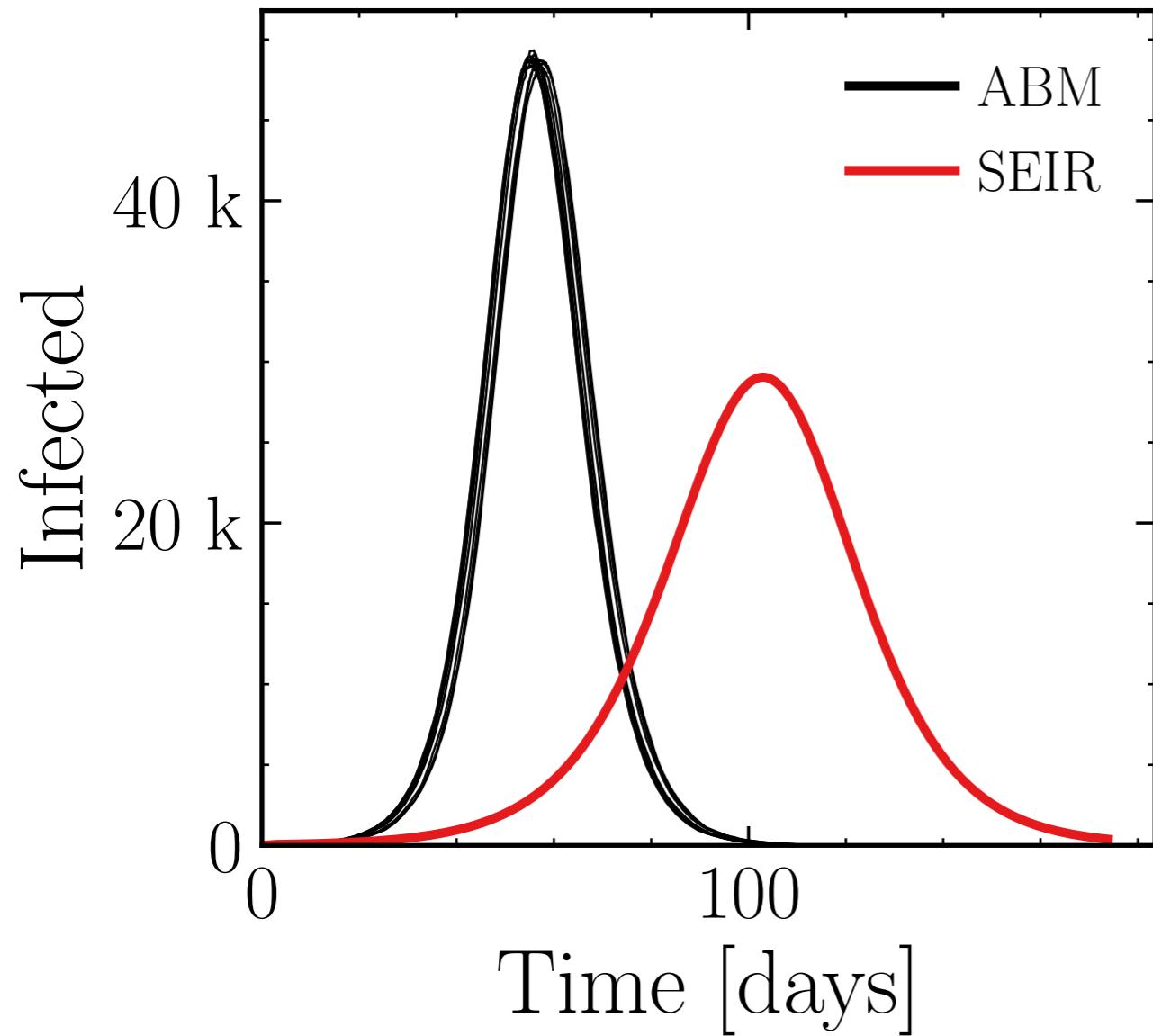
$$R_\infty^{\text{ABM}} = (111.6 \pm 0.36\%) \cdot 10^3$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 10.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.04$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (48.8 \pm 0.17\%) \cdot 10^3$$

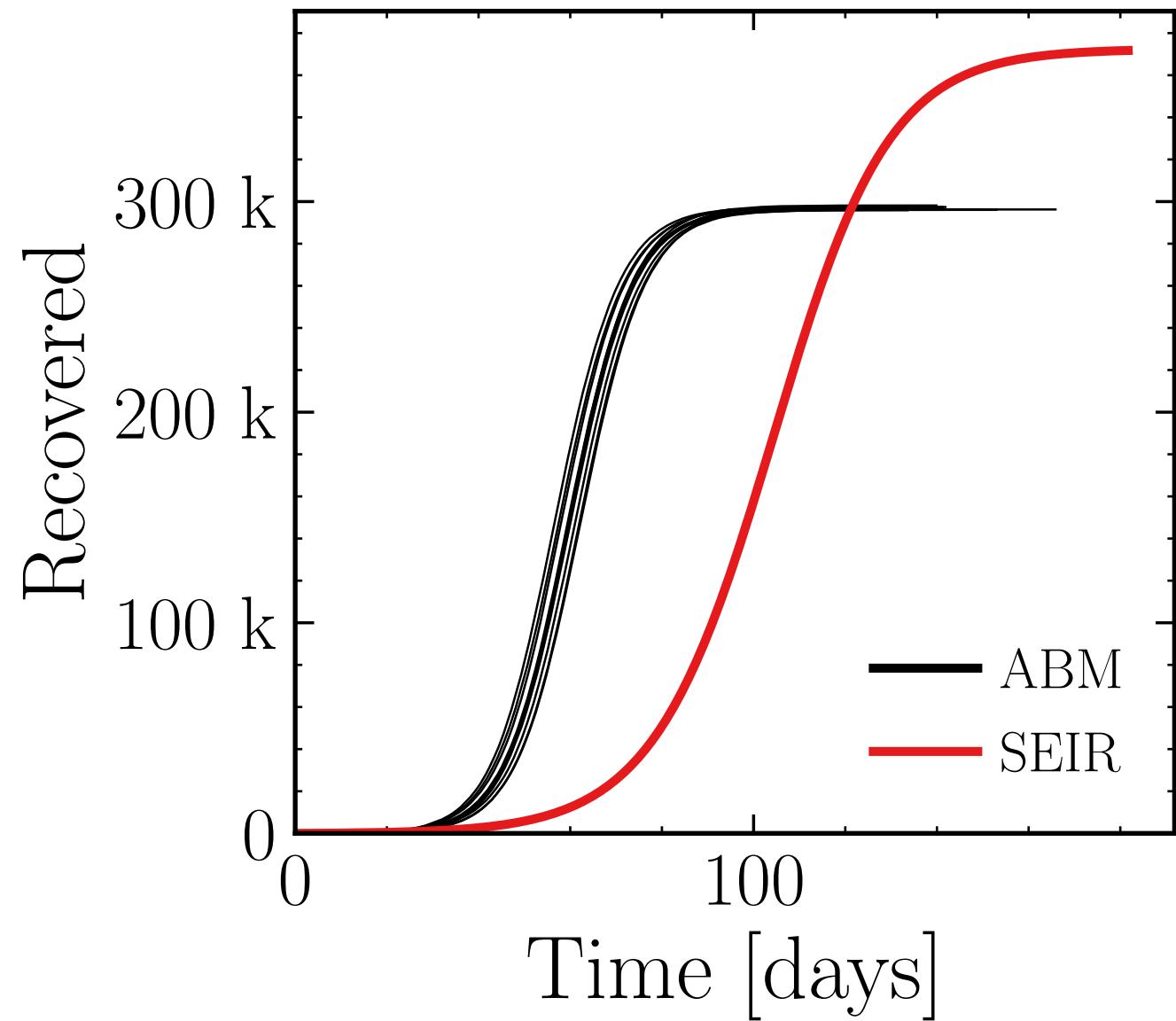
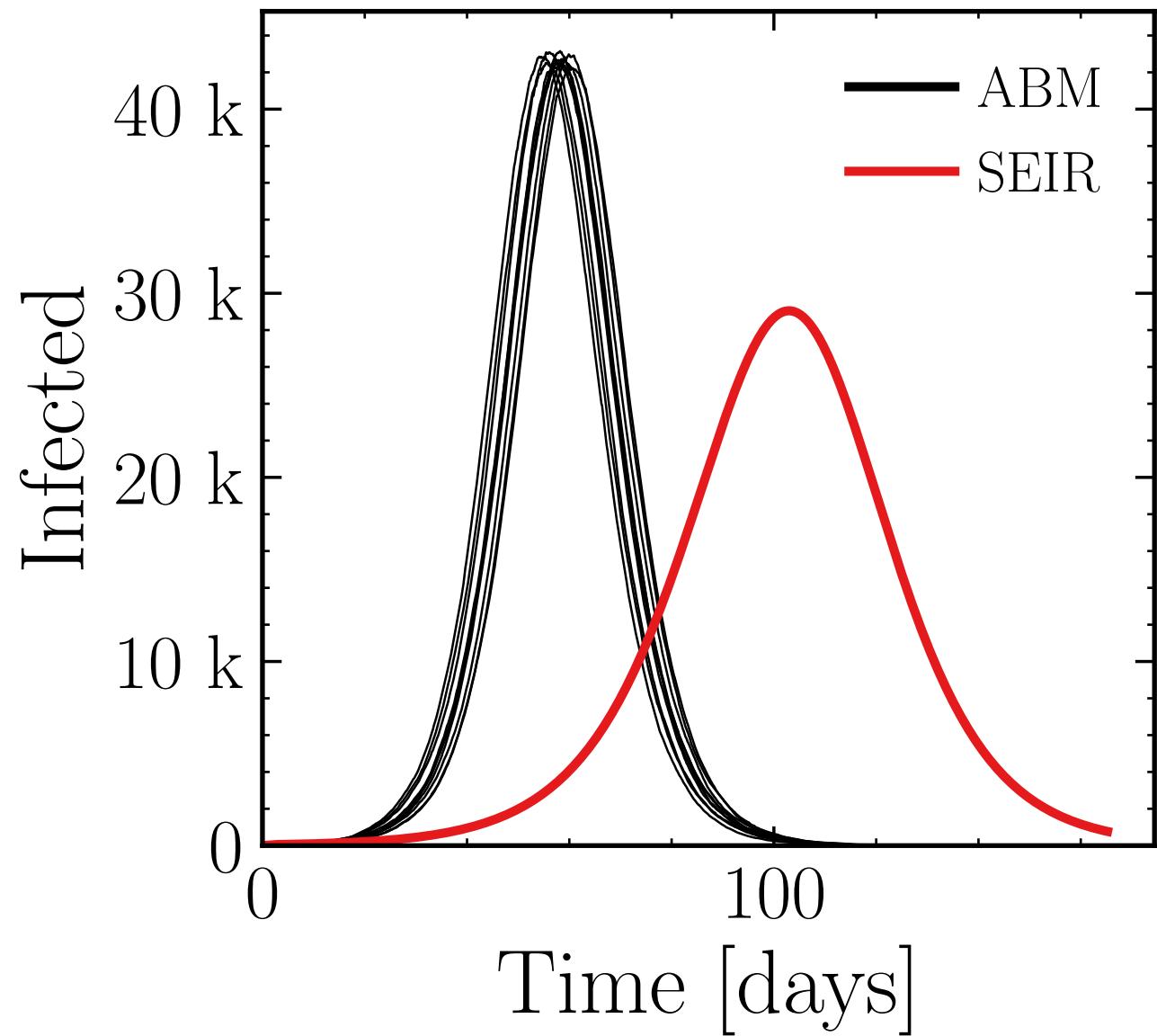
$$R_\infty^{\text{ABM}} = (316.6 \pm 0.037\%) \cdot 10^3$$



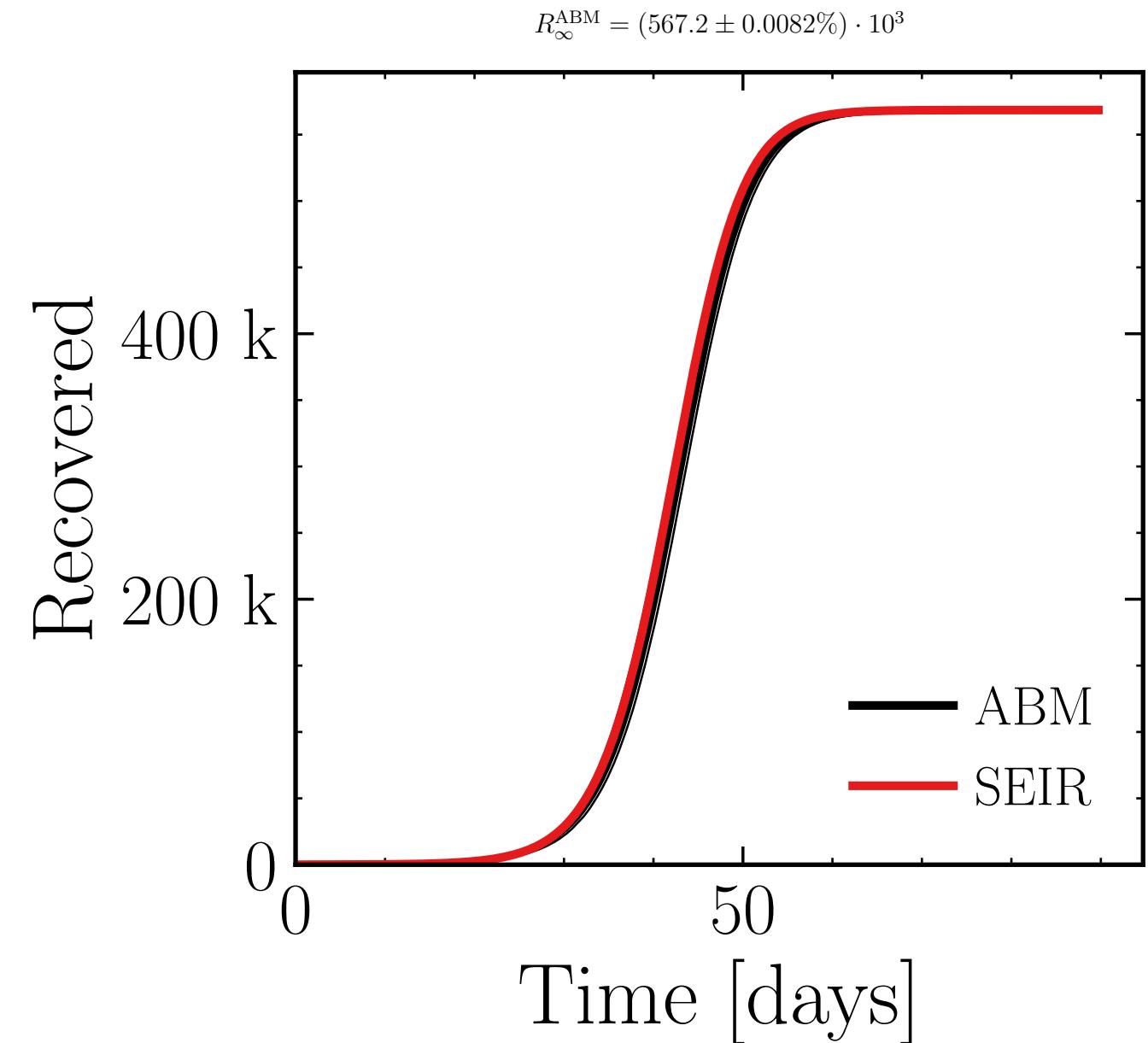
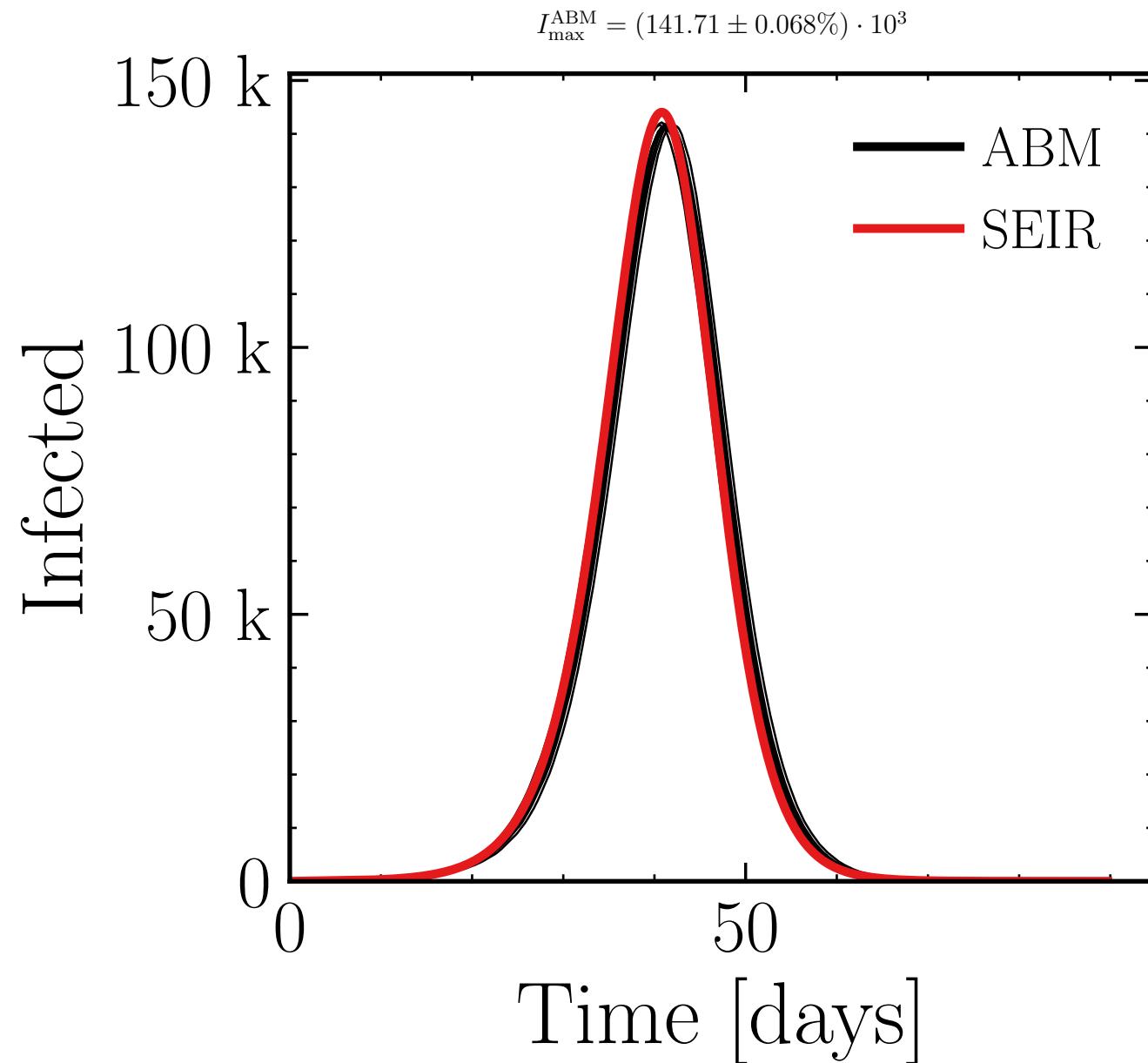
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 10.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.04$ ,  $\sigma_\beta = 1.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (42.72 \pm 0.21\%) \cdot 10^3$$

$$R_\infty^{\text{ABM}} = (296.8 \pm 0.075\%) \cdot 10^3$$

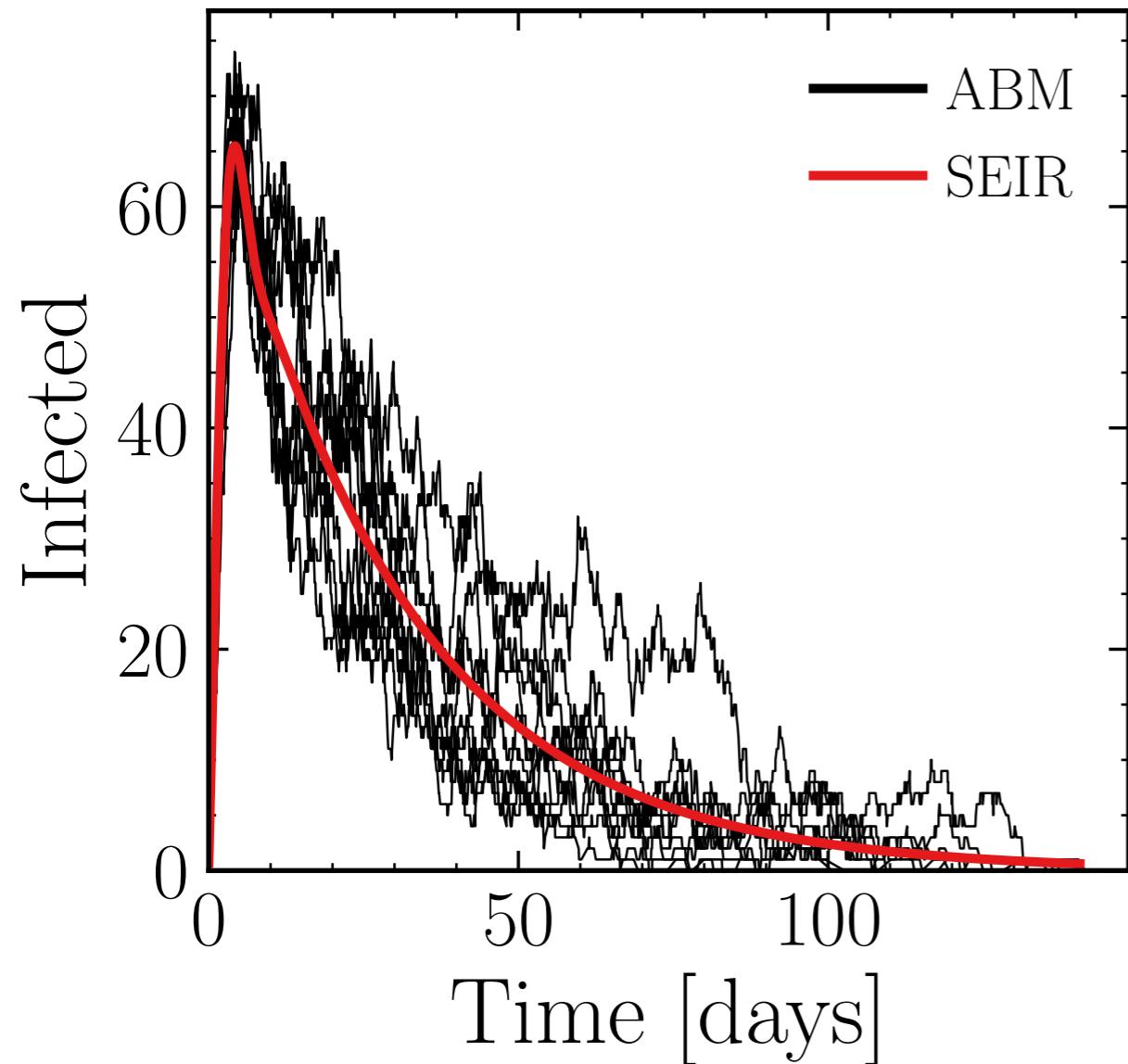


$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 100.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

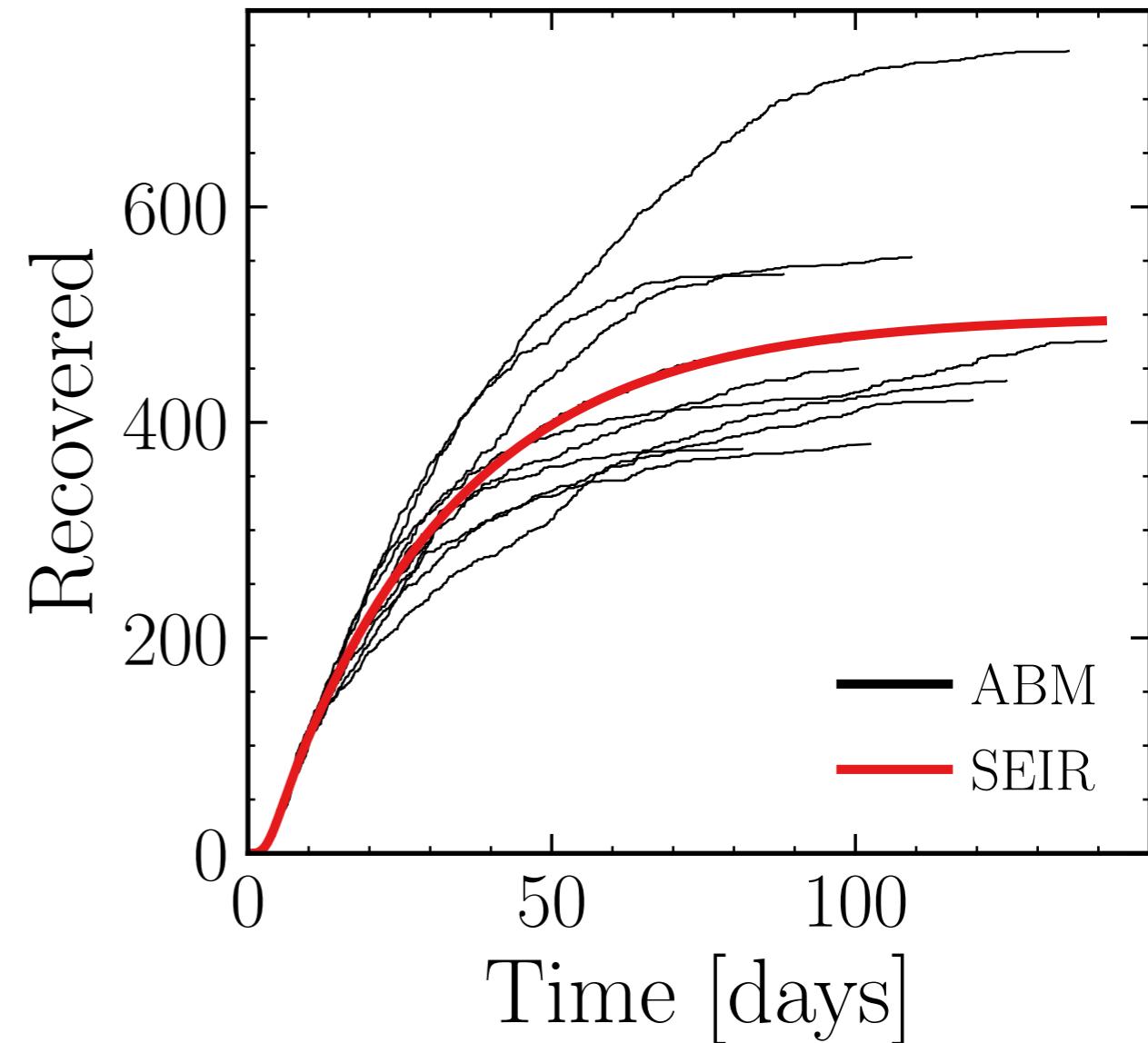


$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 20.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (68 \pm 1.9\%) \cdot$$



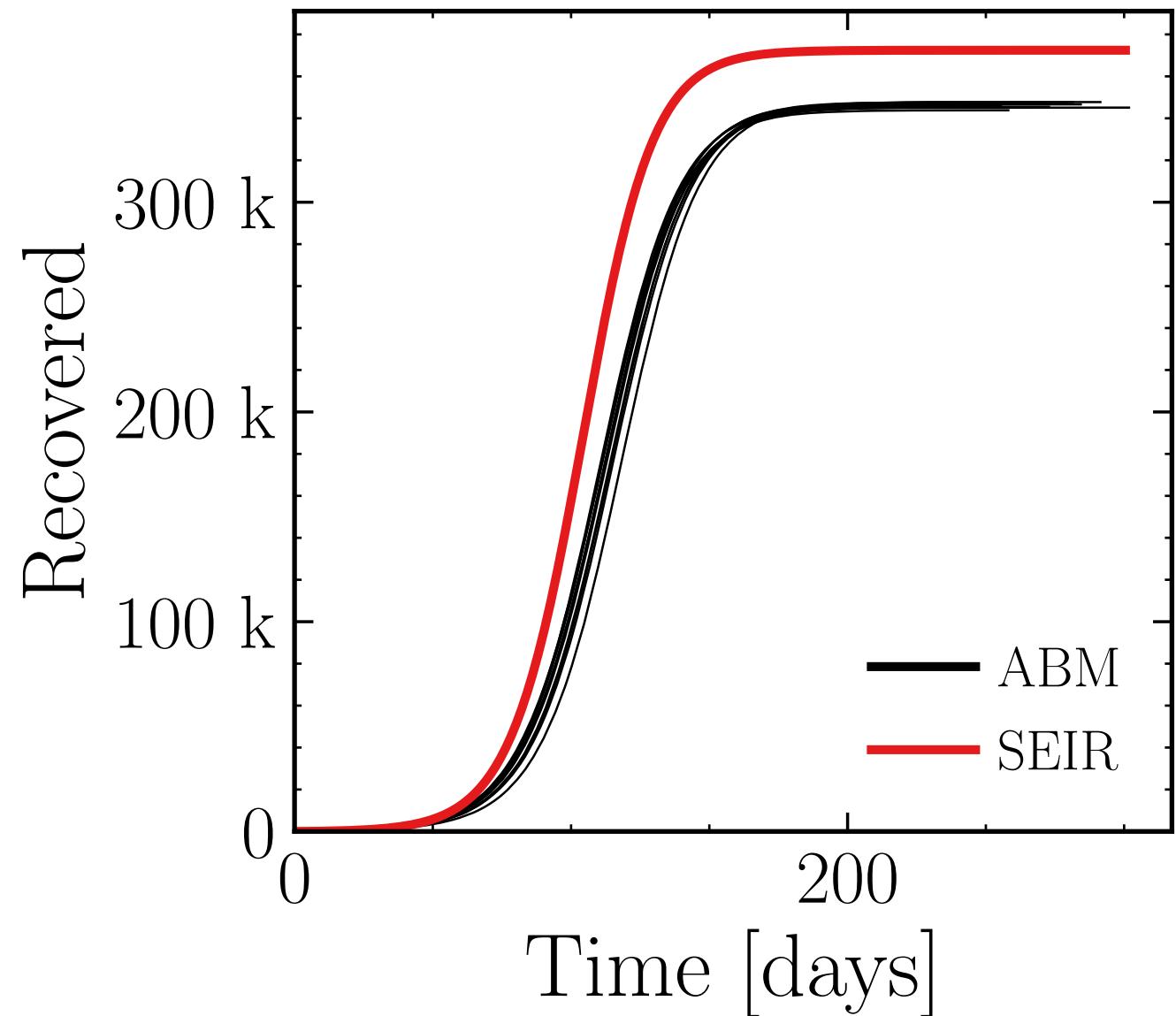
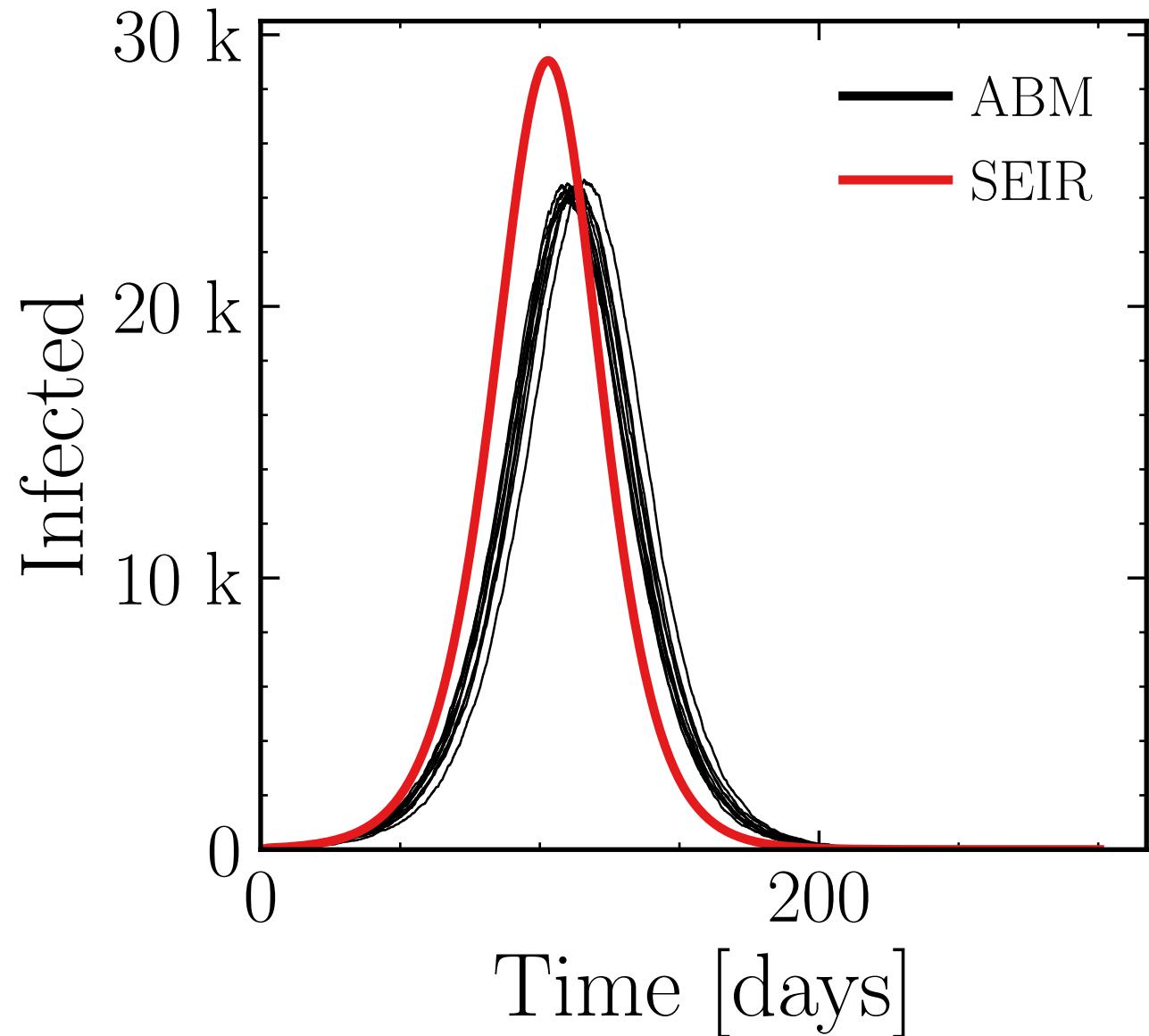
$$R_\infty^{\text{ABM}} = (490 \pm 6.7\%) \cdot$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 20.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.02$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

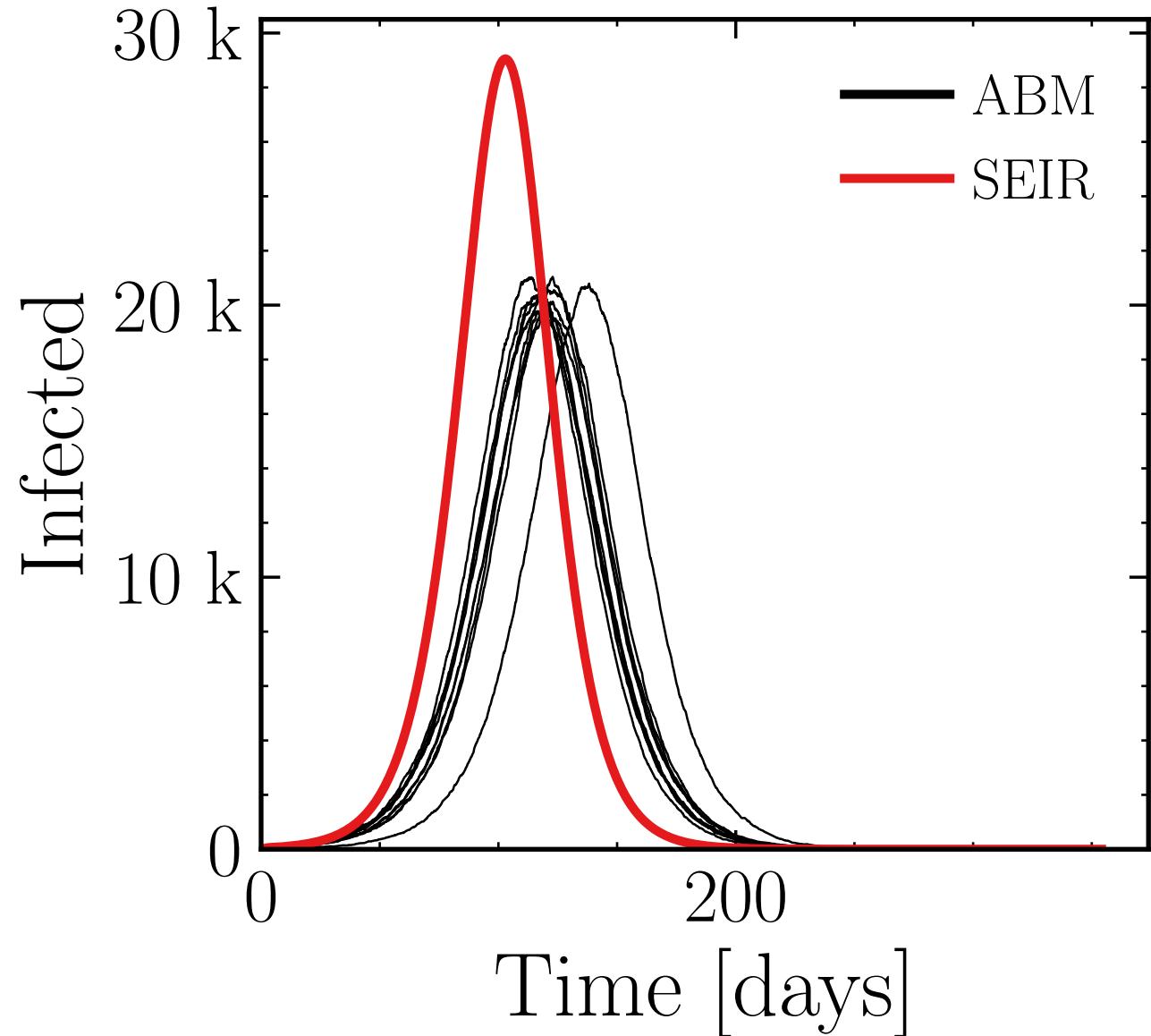
$$I_{\max}^{\text{ABM}} = (24.3 \pm 0.31\%) \cdot 10^3$$

$$R_\infty^{\text{ABM}} = (346.5 \pm 0.12\%) \cdot 10^3$$

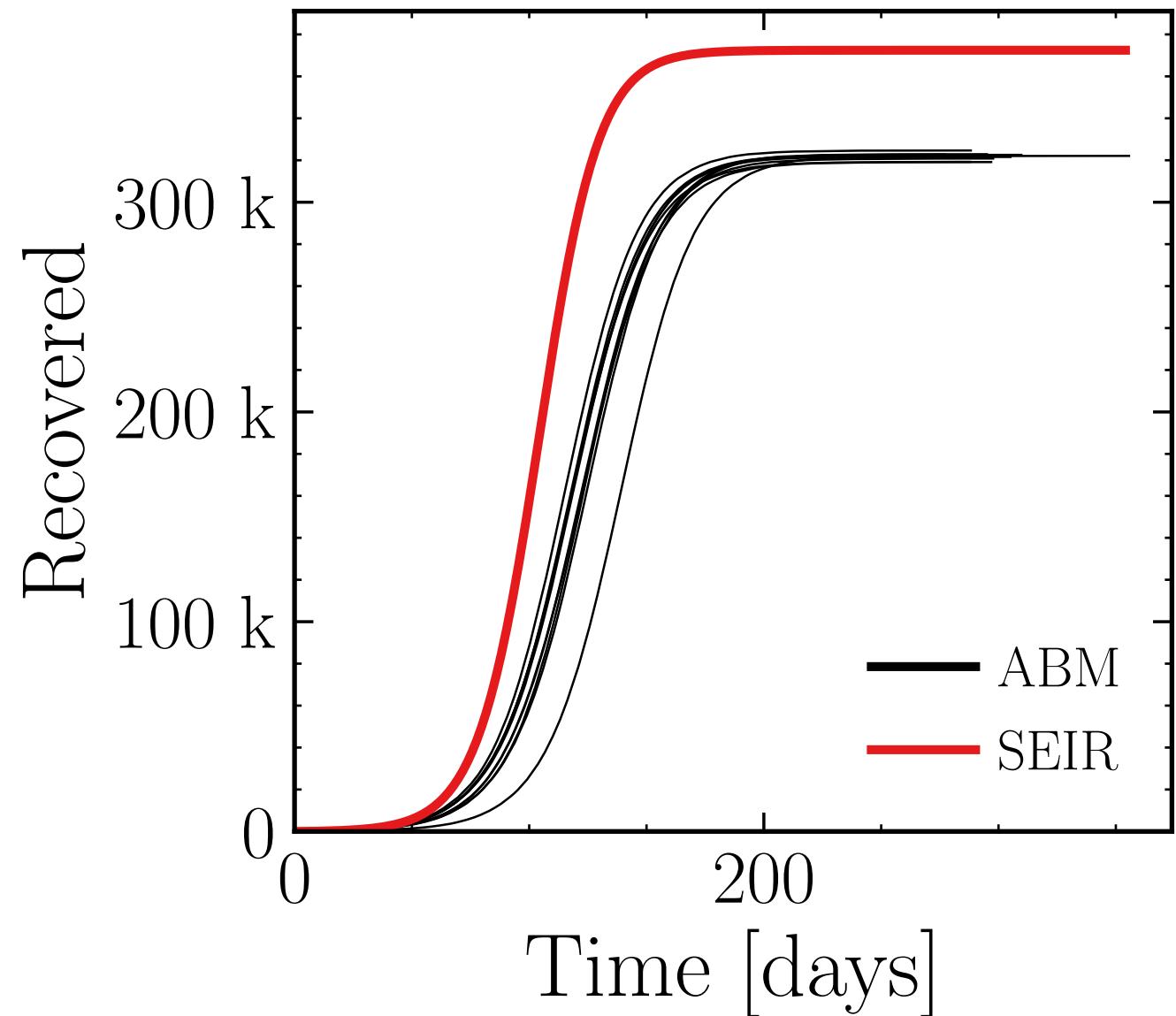


$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 20.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.02$ ,  $\sigma_\beta = 1.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (20.4 \pm 0.69\%) \cdot 10^3$$

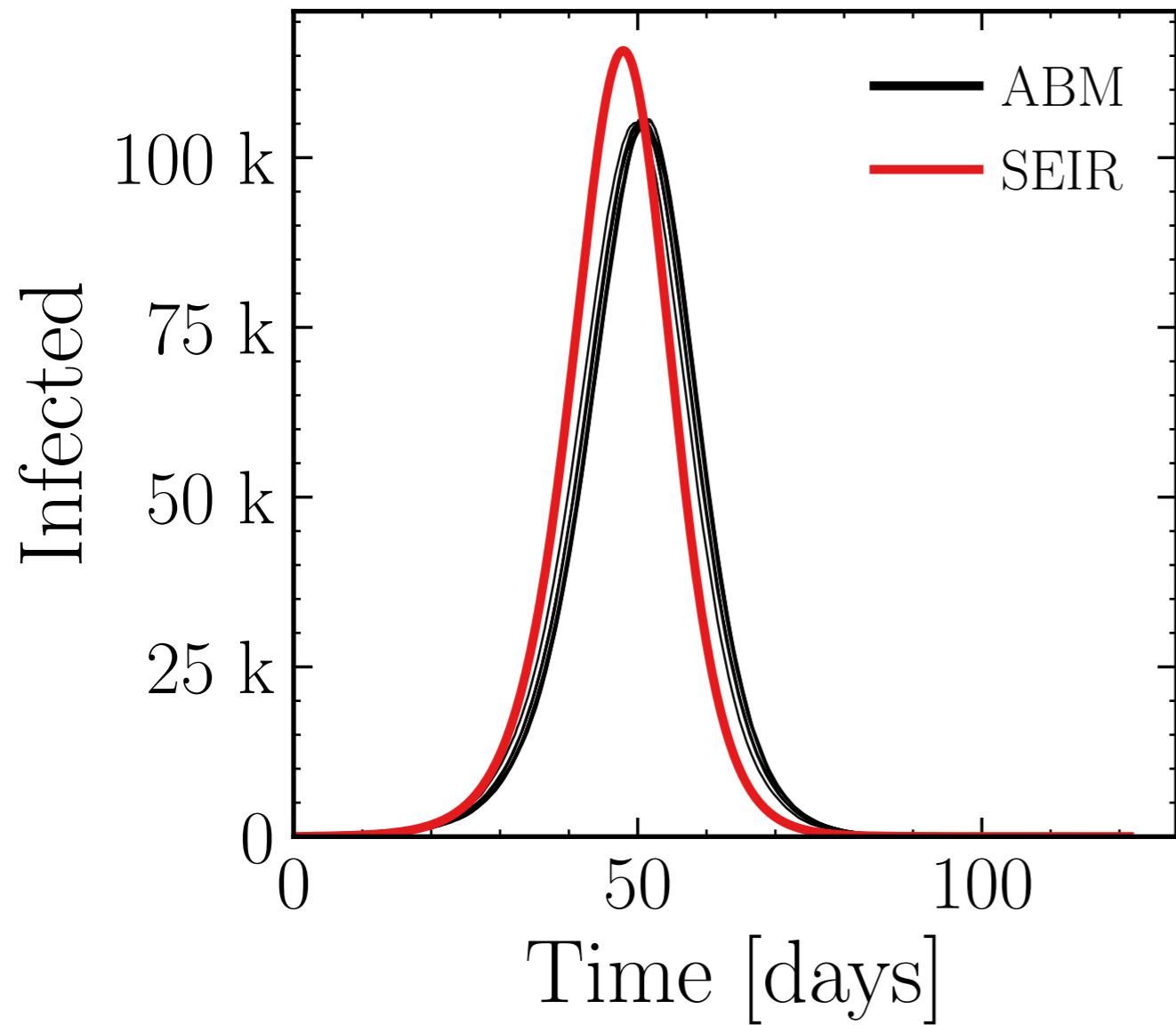


$$R_\infty^{\text{ABM}} = (321.8 \pm 0.16\%) \cdot 10^3$$

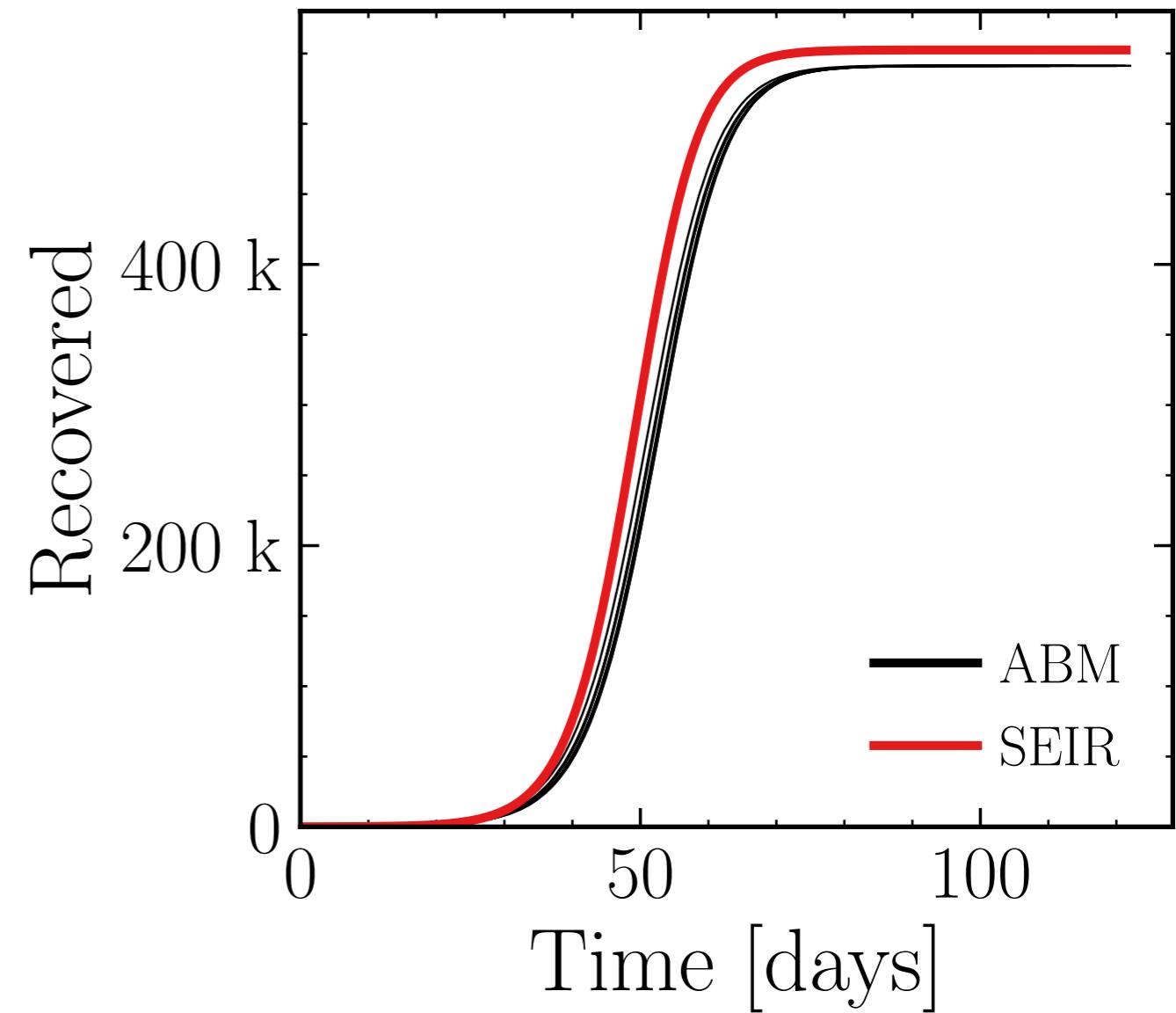


$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 20.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.04$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (105.2 \pm 0.12\%) \cdot 10^3$$

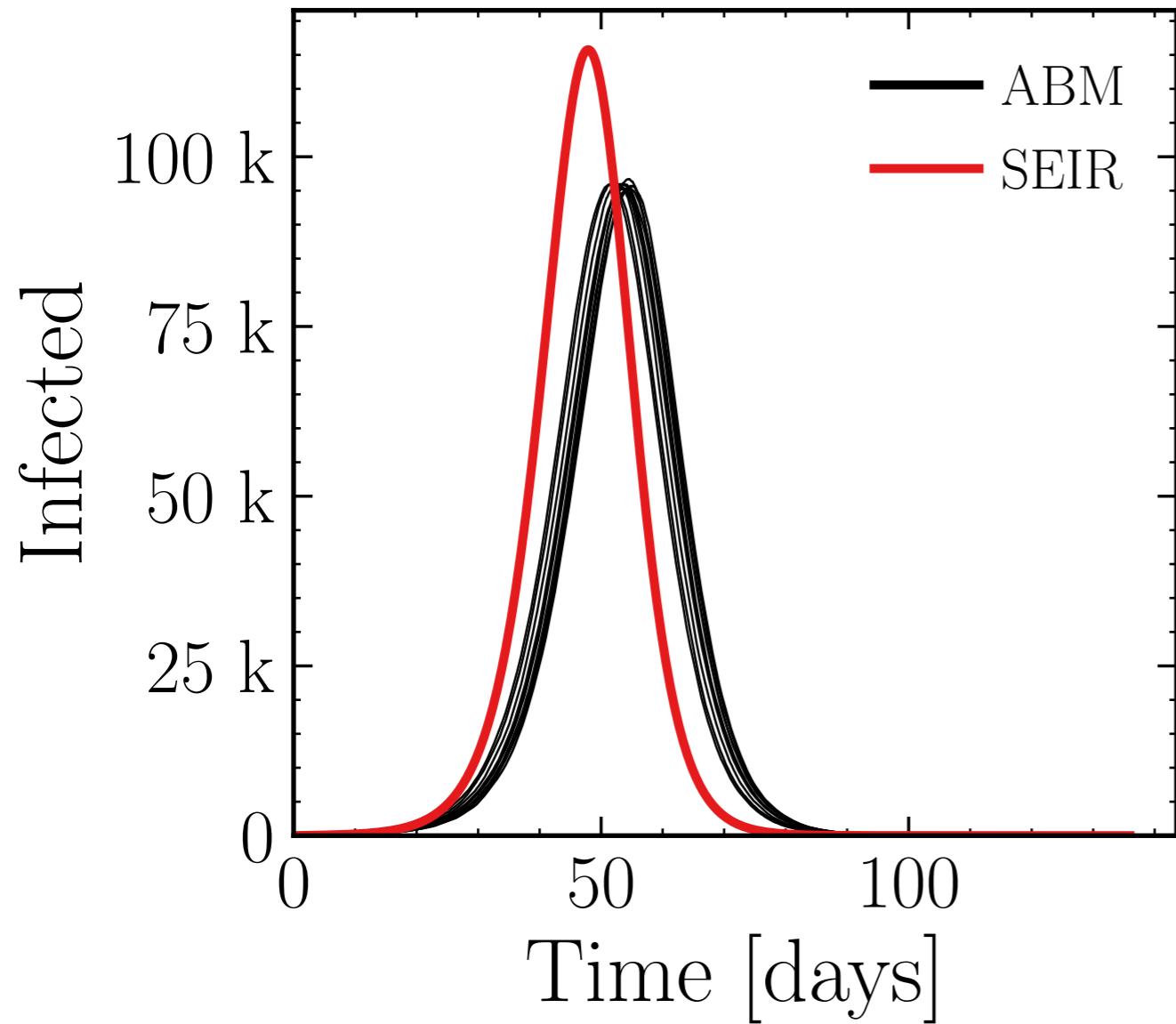


$$R_{\infty}^{\text{ABM}} = (541.29 \pm 0.0073\%) \cdot 10^3$$

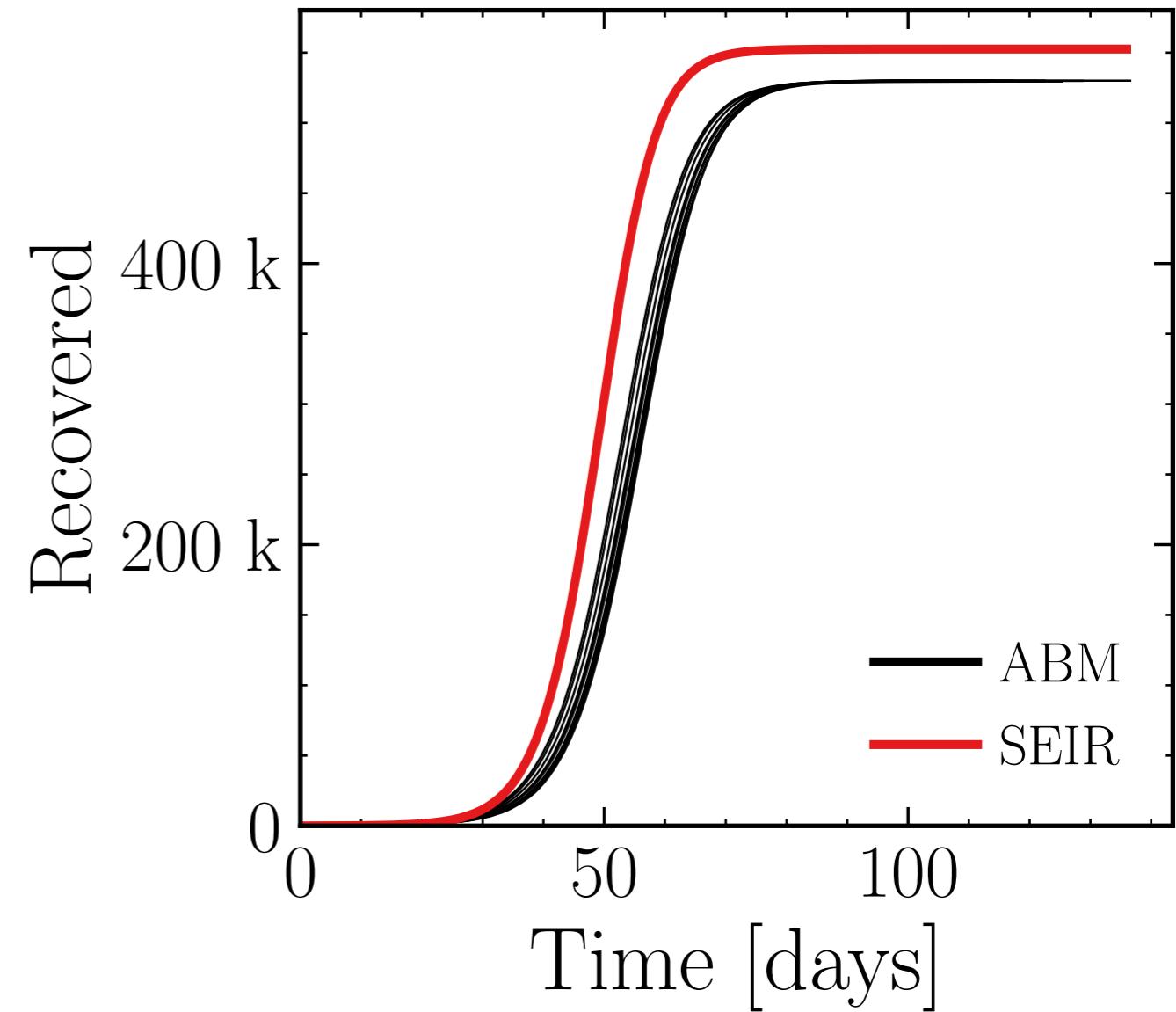


$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 20.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.04$ ,  $\sigma_\beta = 1.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (95.8 \pm 0.13\%) \cdot 10^3$$



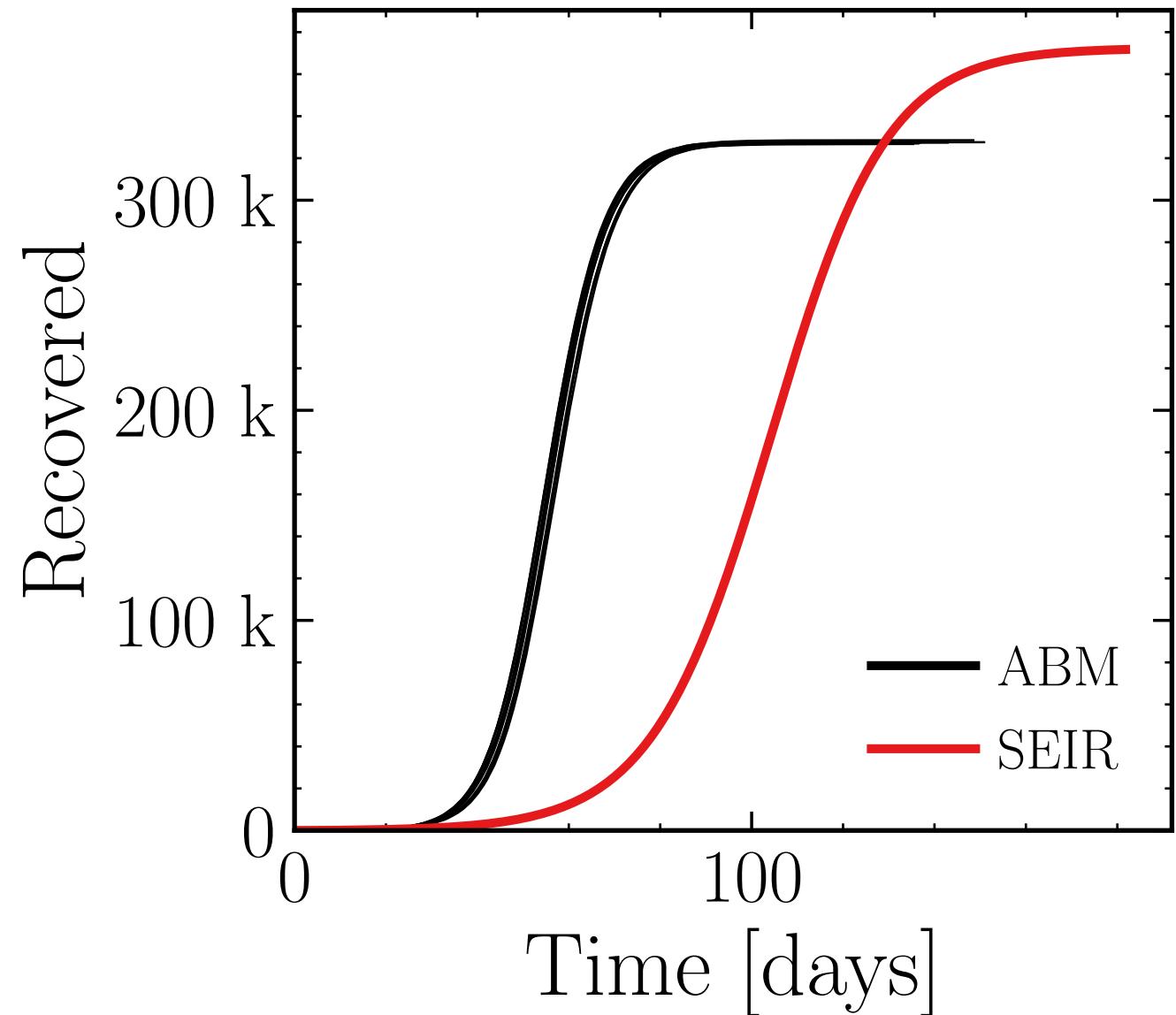
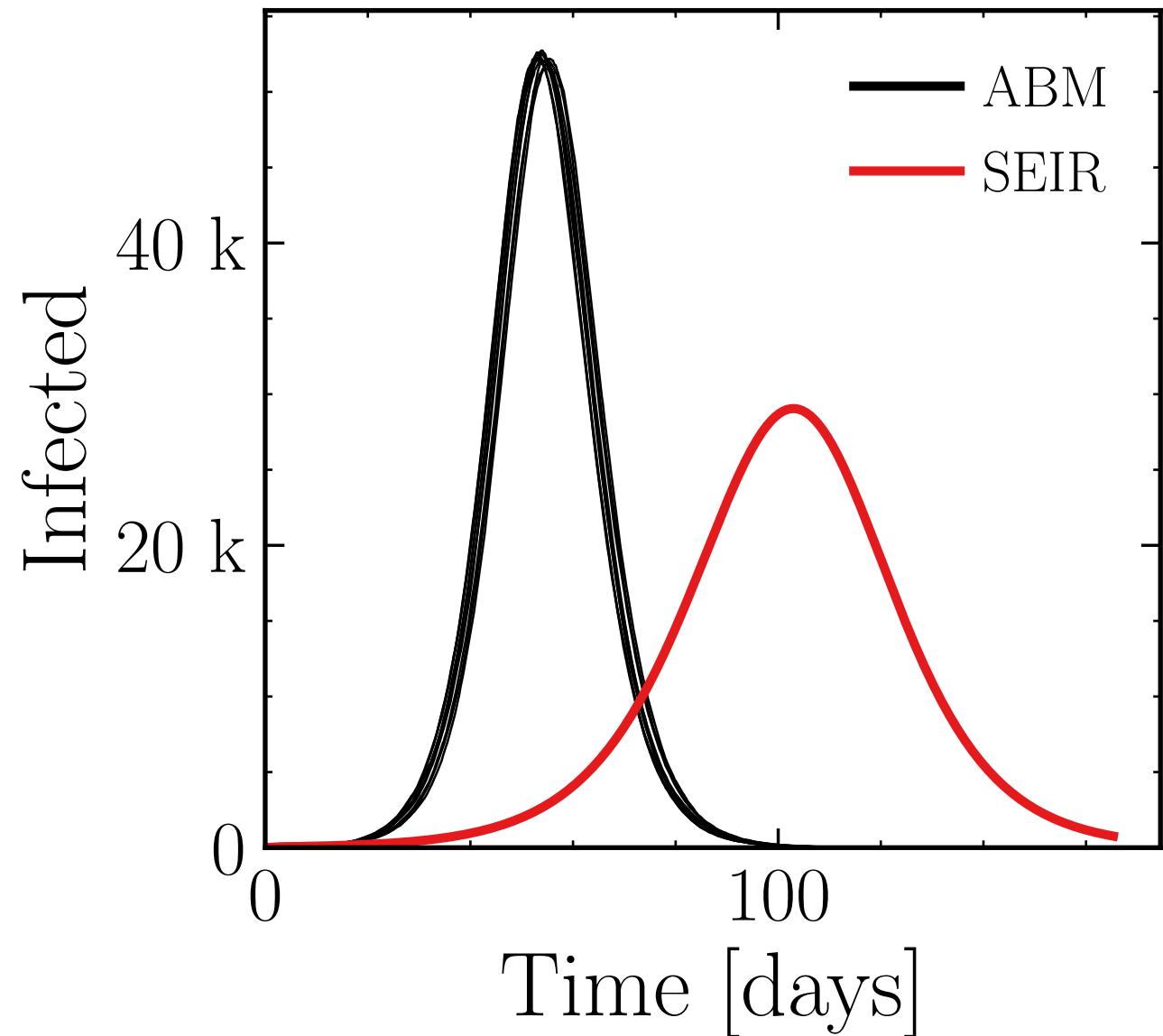
$$R_{\infty}^{\text{ABM}} = (529.9 \pm 0.017\%) \cdot 10^3$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 20.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.02$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (52.3 \pm 0.21\%) \cdot 10^3$$

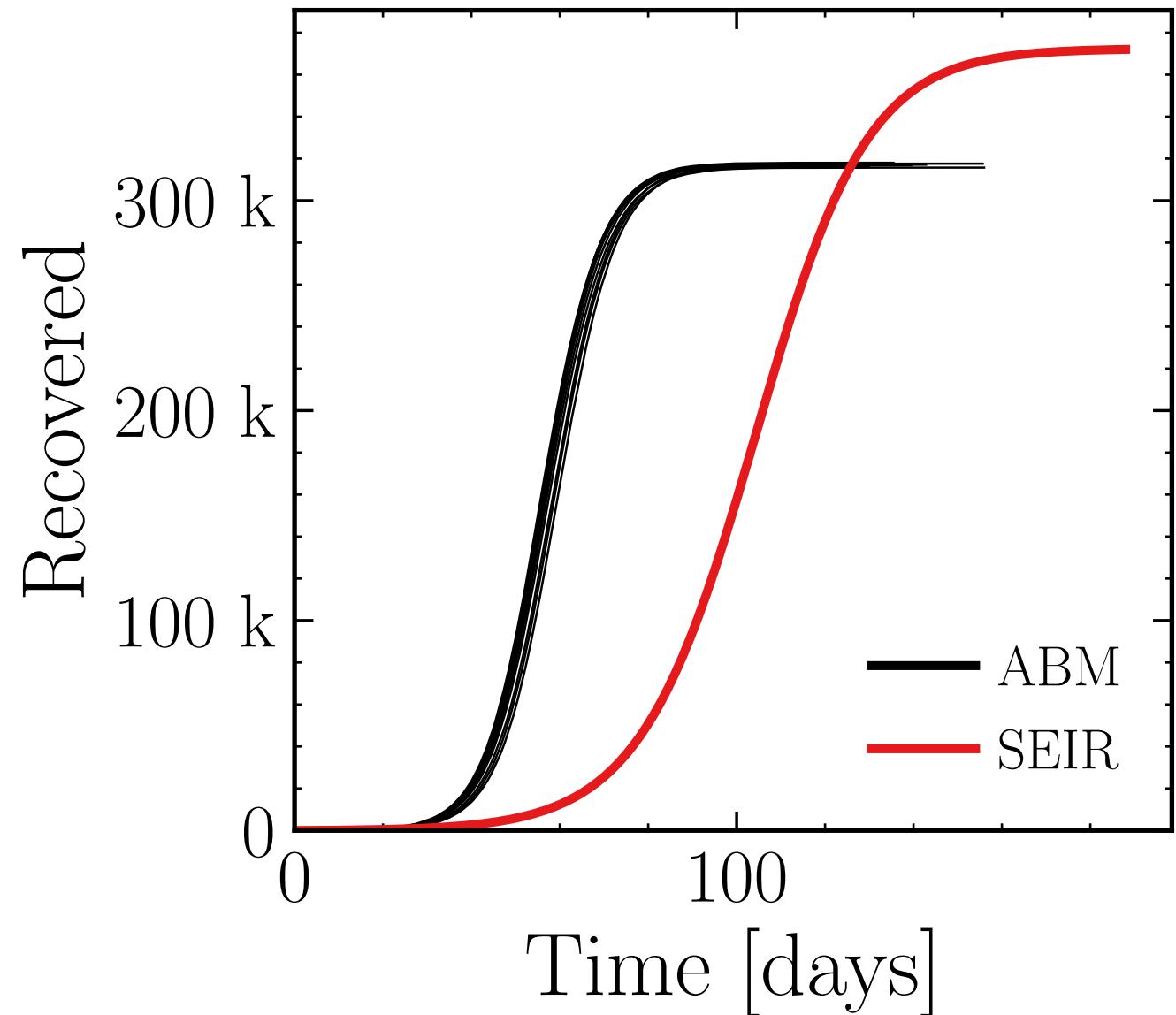
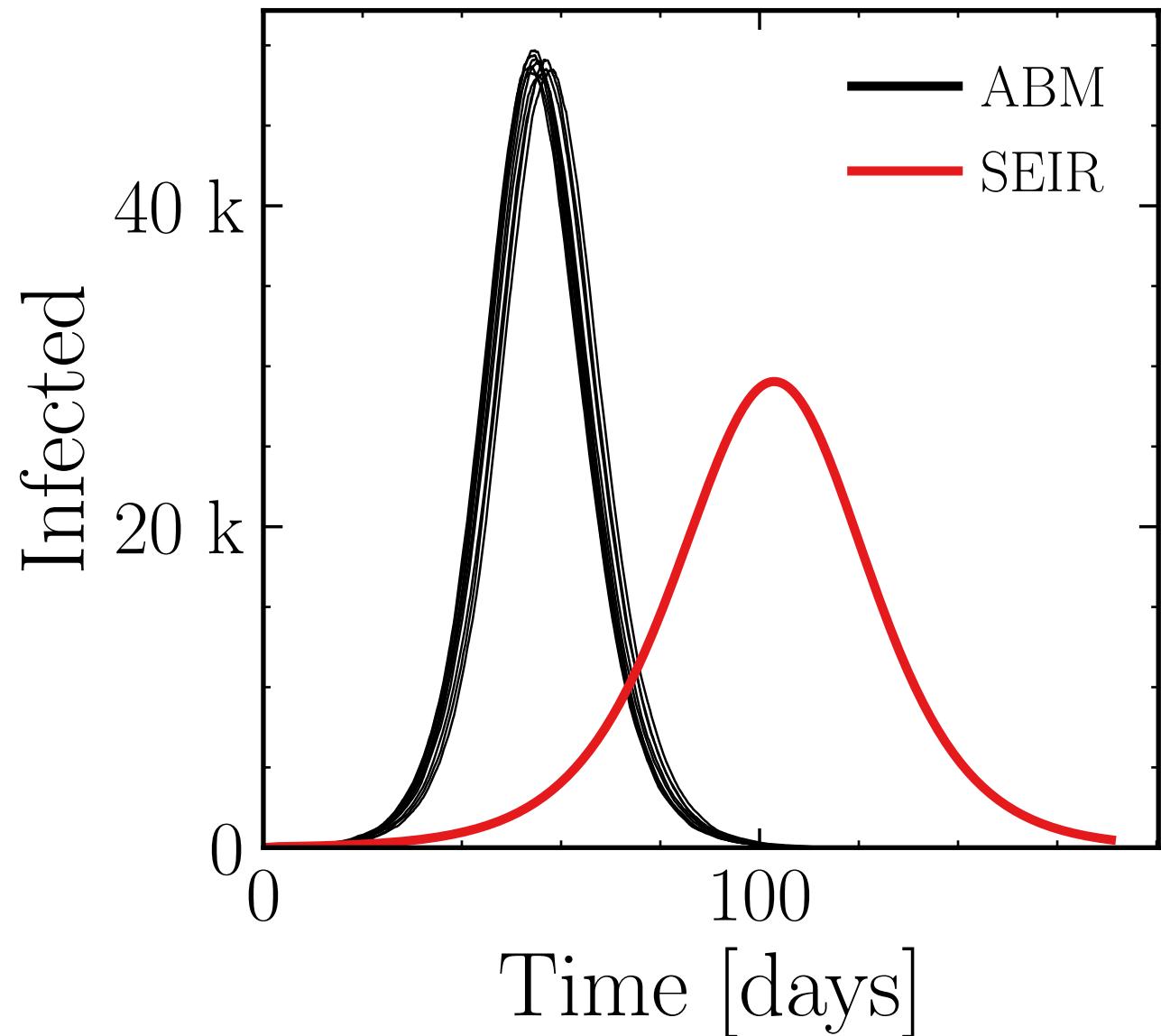
$$R_\infty^{\text{ABM}} = (327.5 \pm 0.055\%) \cdot 10^3$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 20.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.02$ ,  $\sigma_\beta = 1.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

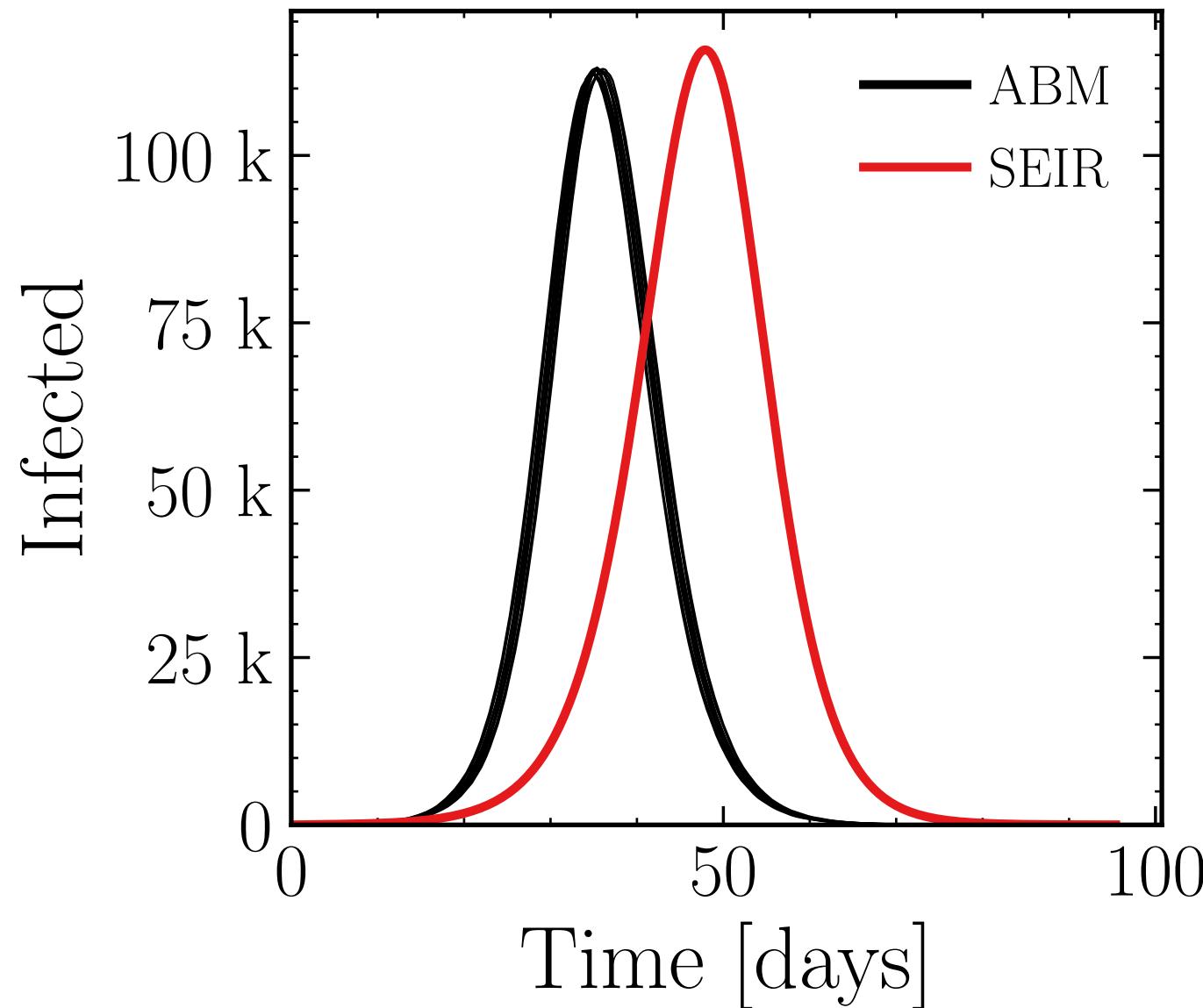
$$I_{\max}^{\text{ABM}} = (48.8 \pm 0.32\%) \cdot 10^3$$

$$R_\infty^{\text{ABM}} = (316.9 \pm 0.072\%) \cdot 10^3$$

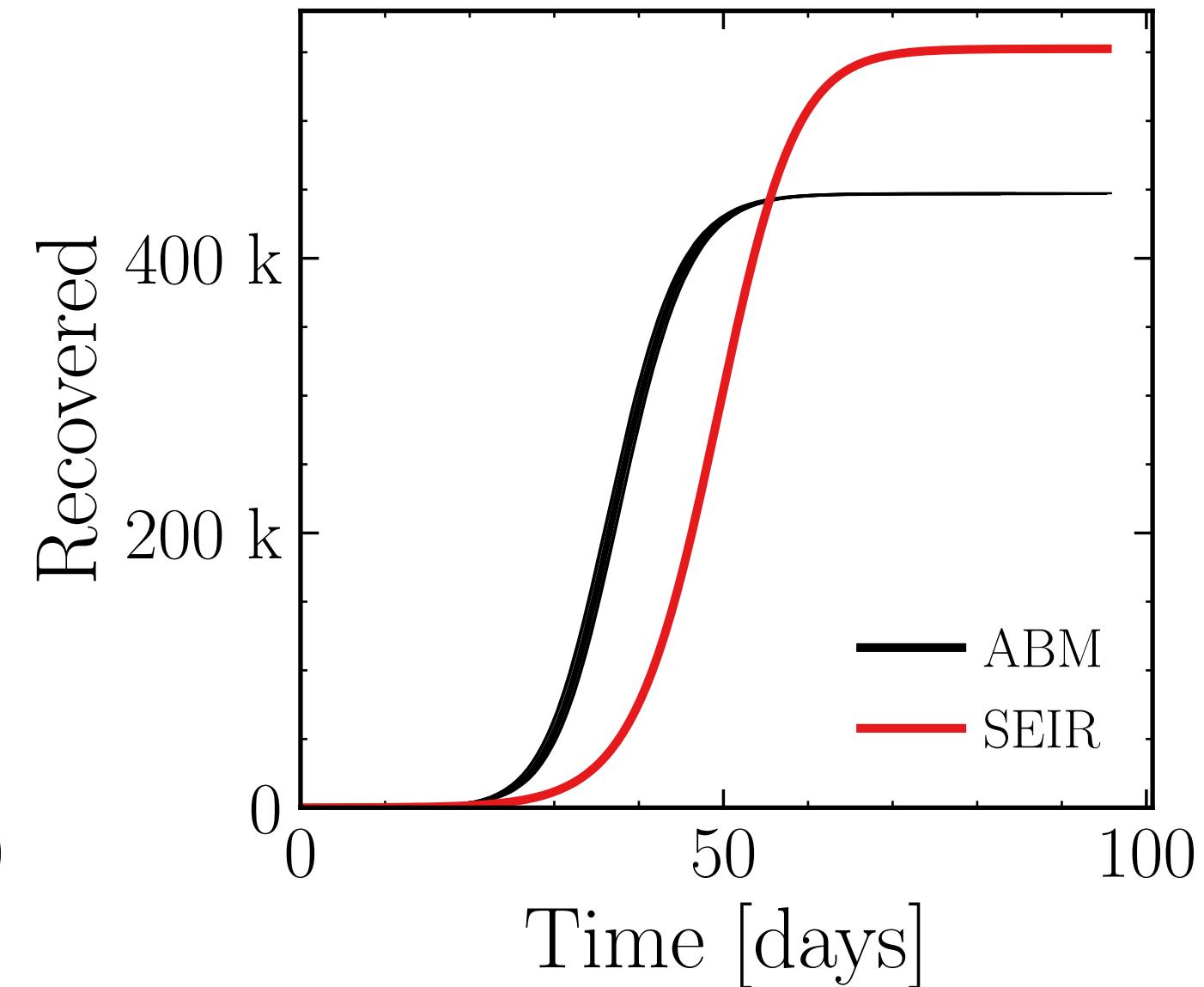


$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 20.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.04$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\text{max}}^{\text{ABM}} = (112.6 \pm 0.093\%) \cdot 10^3$$

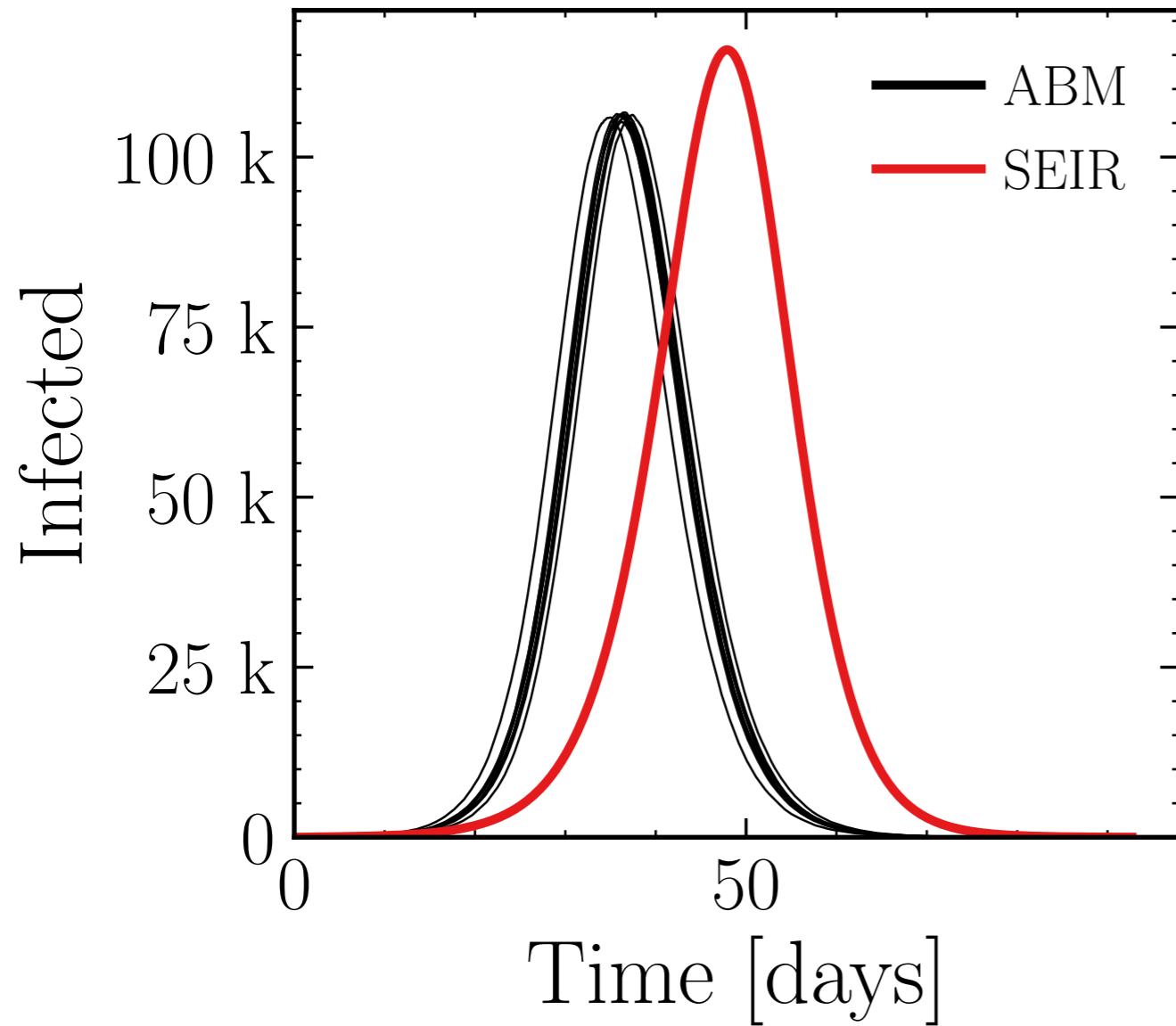


$$R_\infty^{\text{ABM}} = (447.07 \pm 0.019\%) \cdot 10^3$$

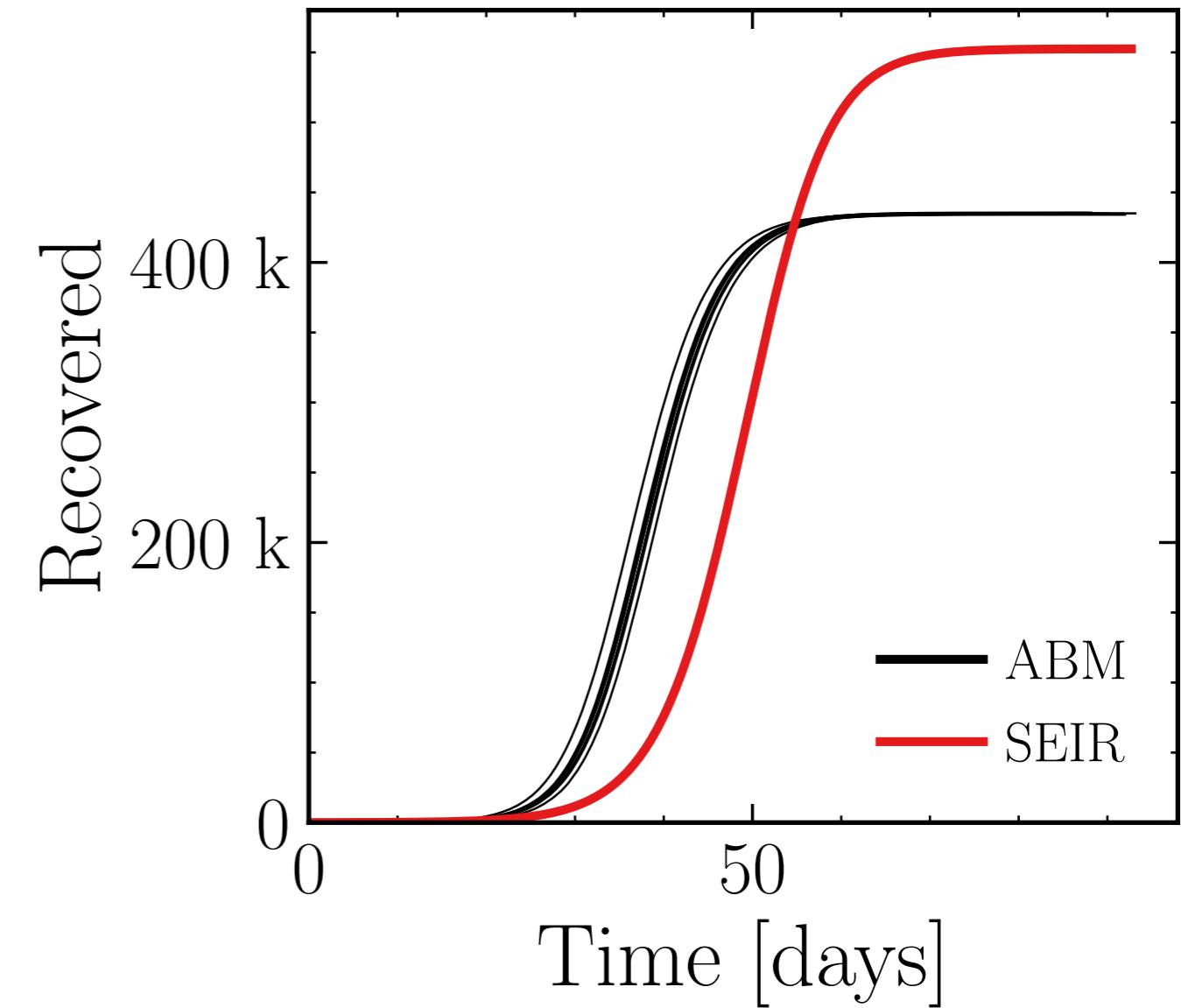


$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 20.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.04$ ,  $\sigma_\beta = 1.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

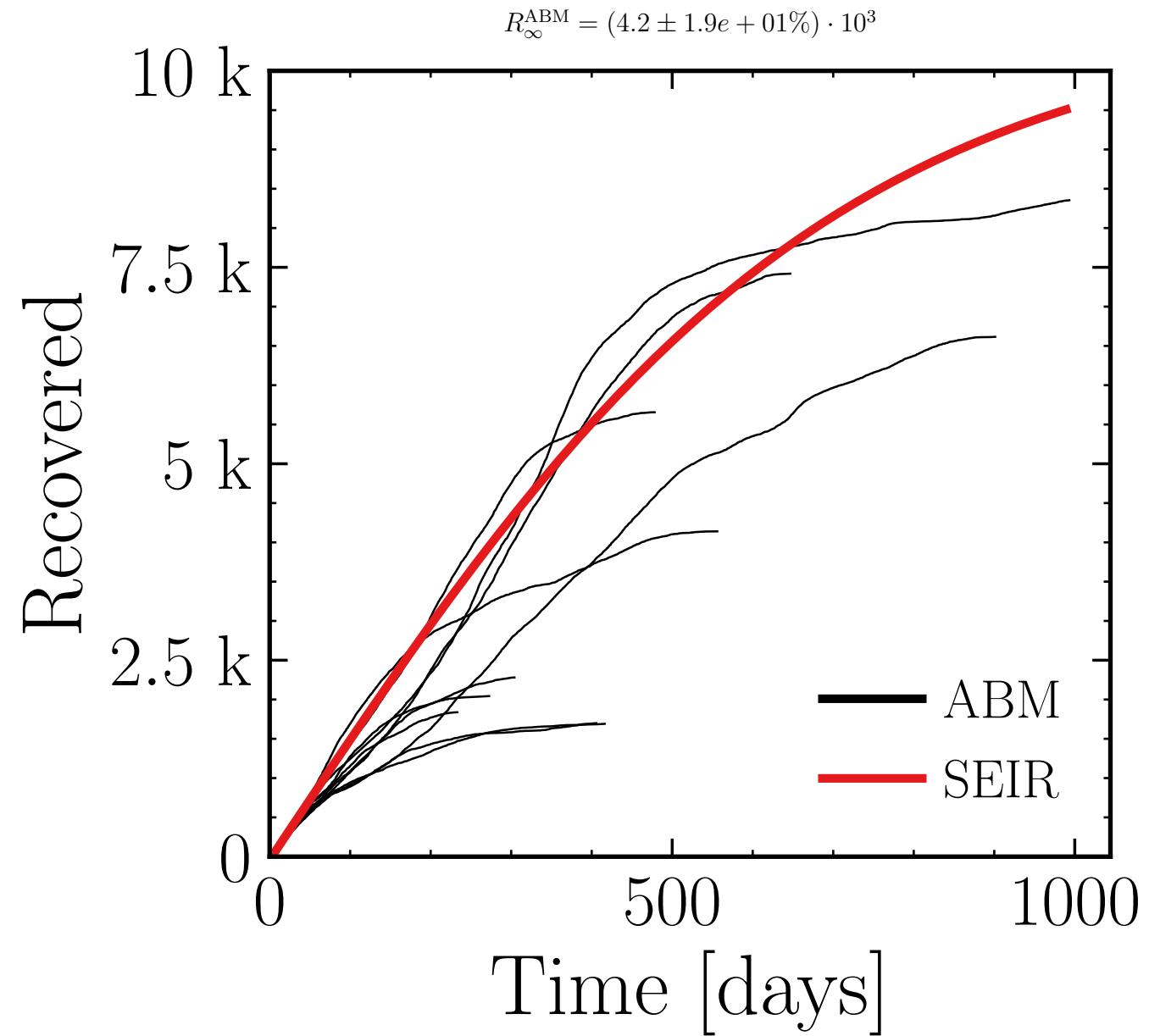
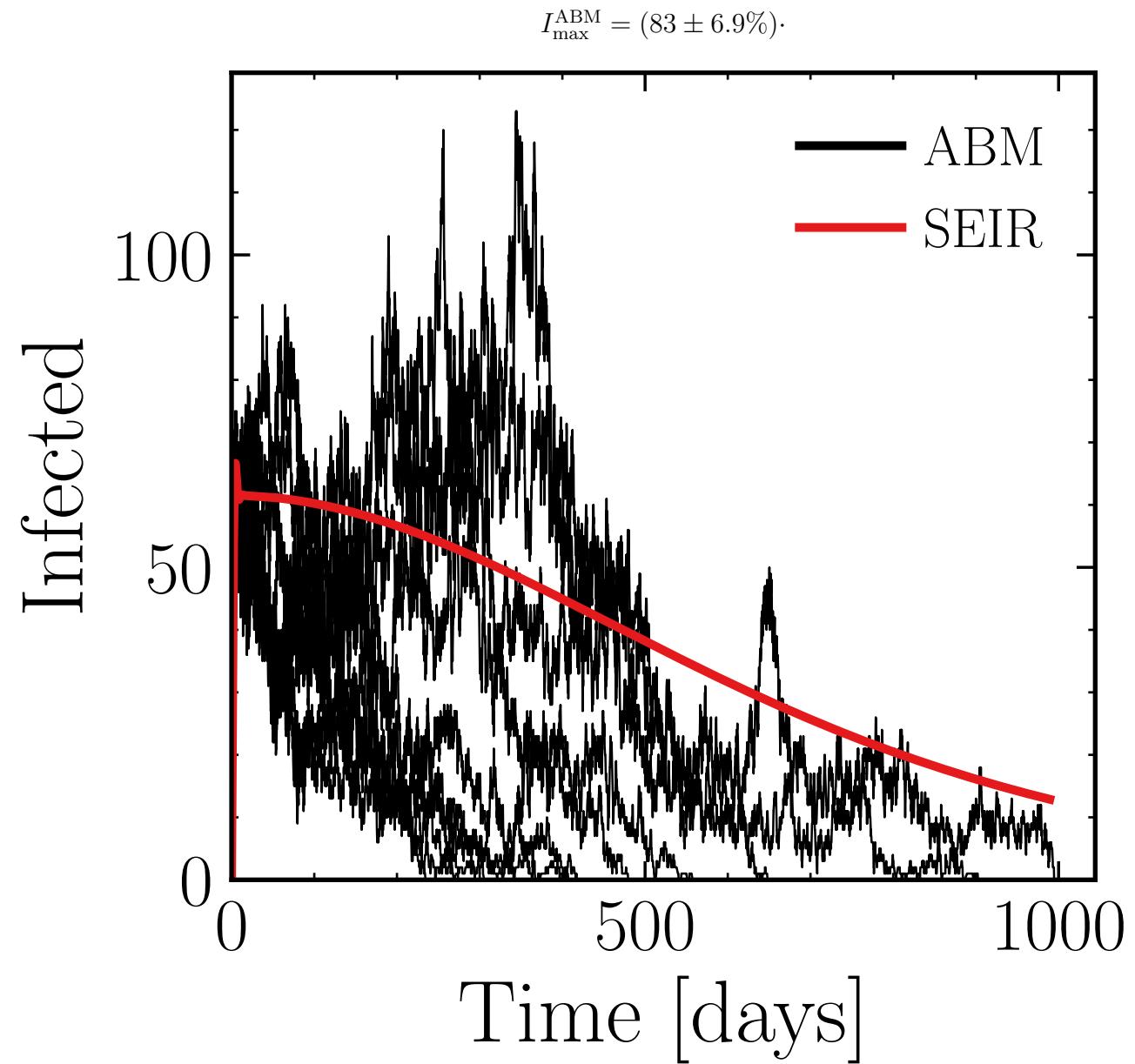
$$I_{\max}^{\text{ABM}} = (106.1 \pm 0.11\%) \cdot 10^3$$



$$R_{\infty}^{\text{ABM}} = (434.9 \pm 0.03\%) \cdot 10^3$$

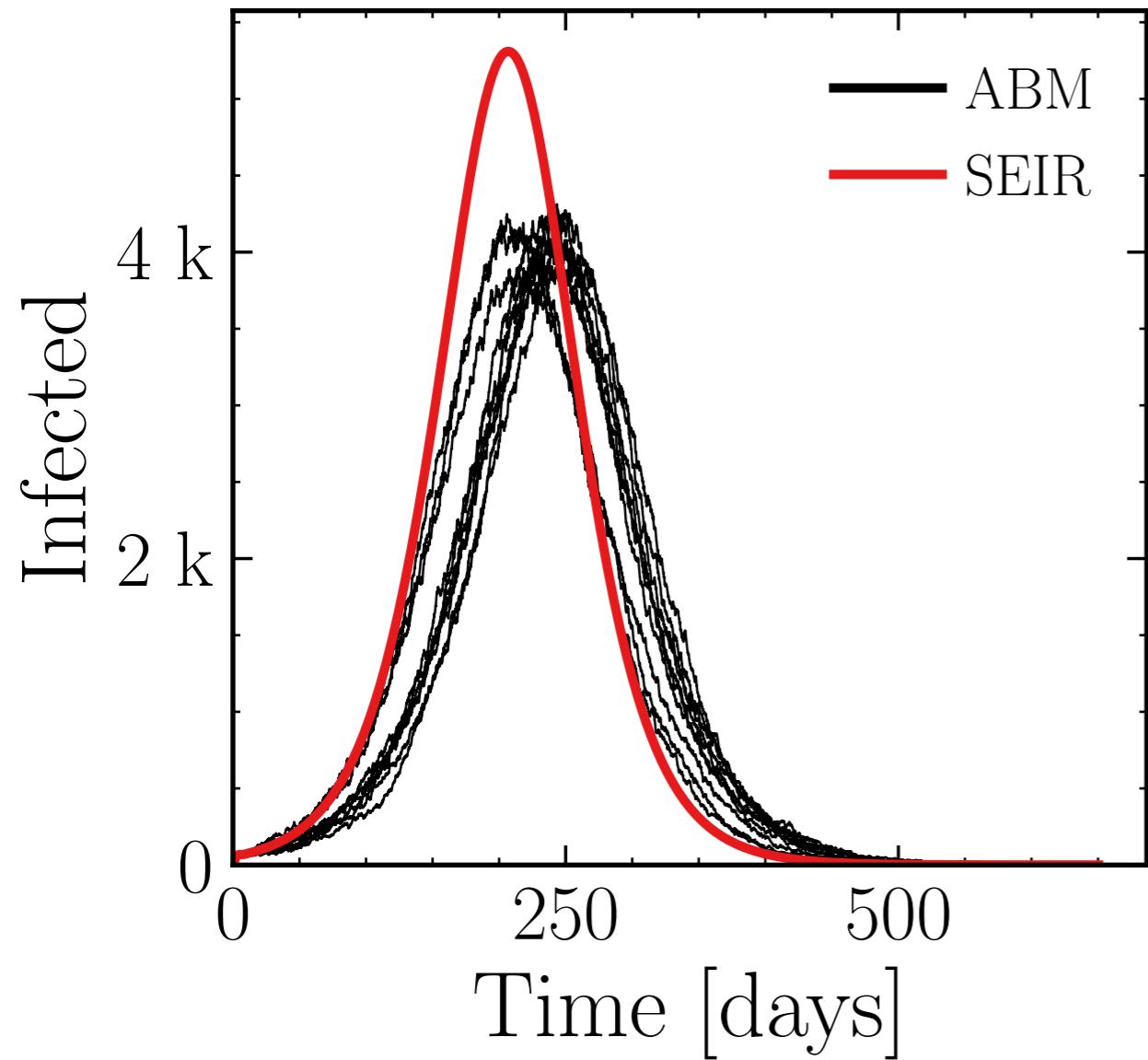


$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 25.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

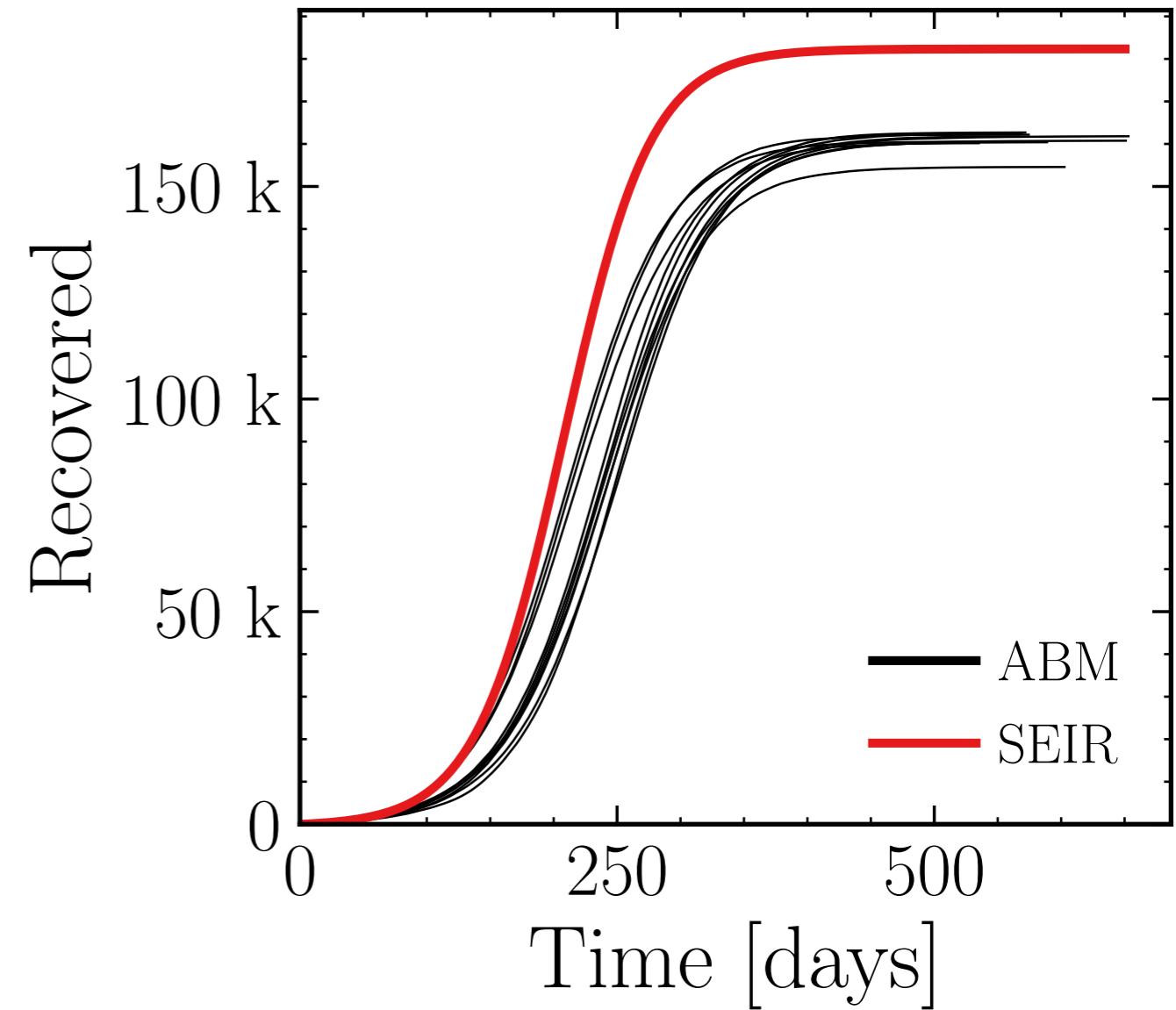


$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 30.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

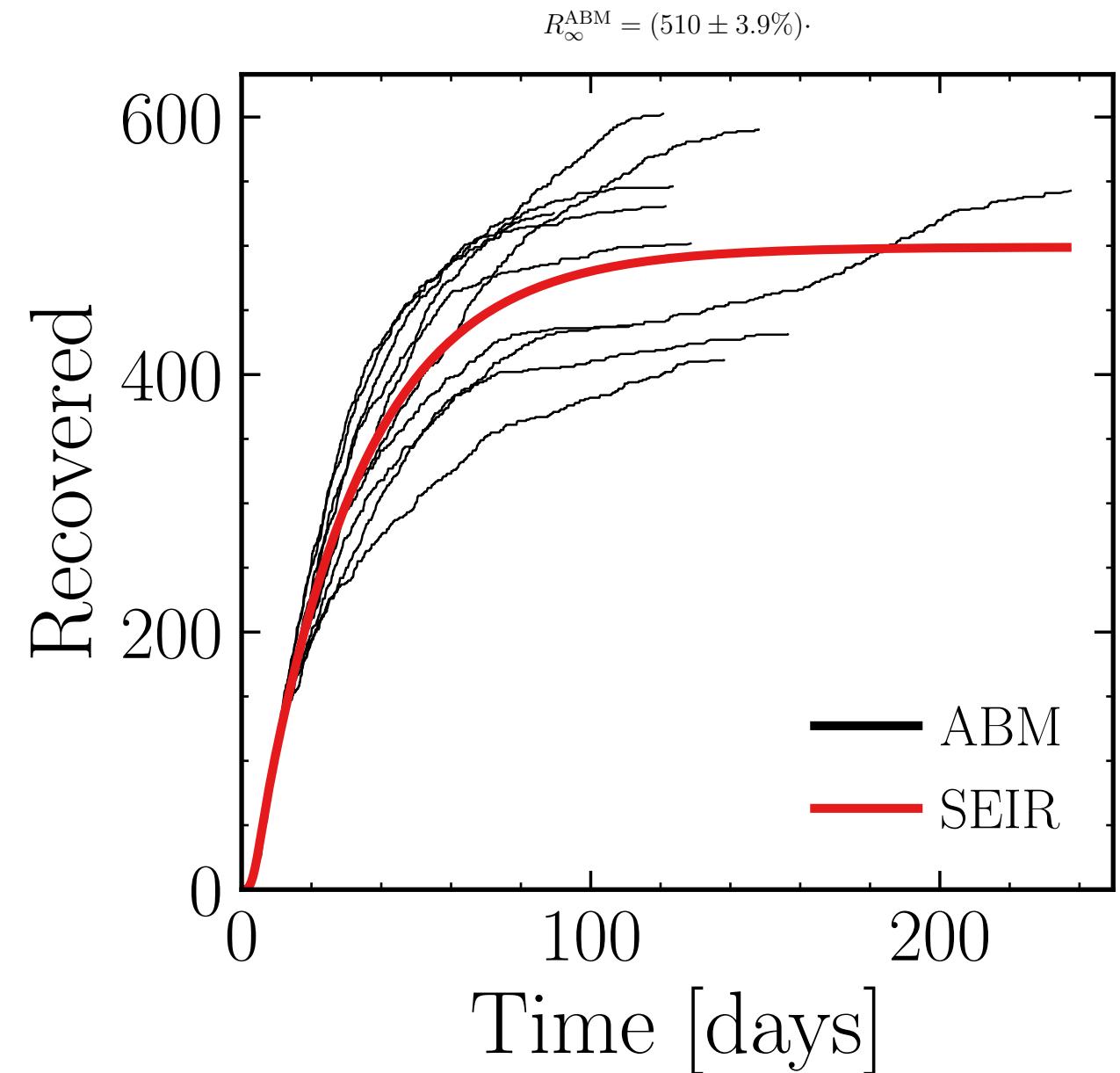
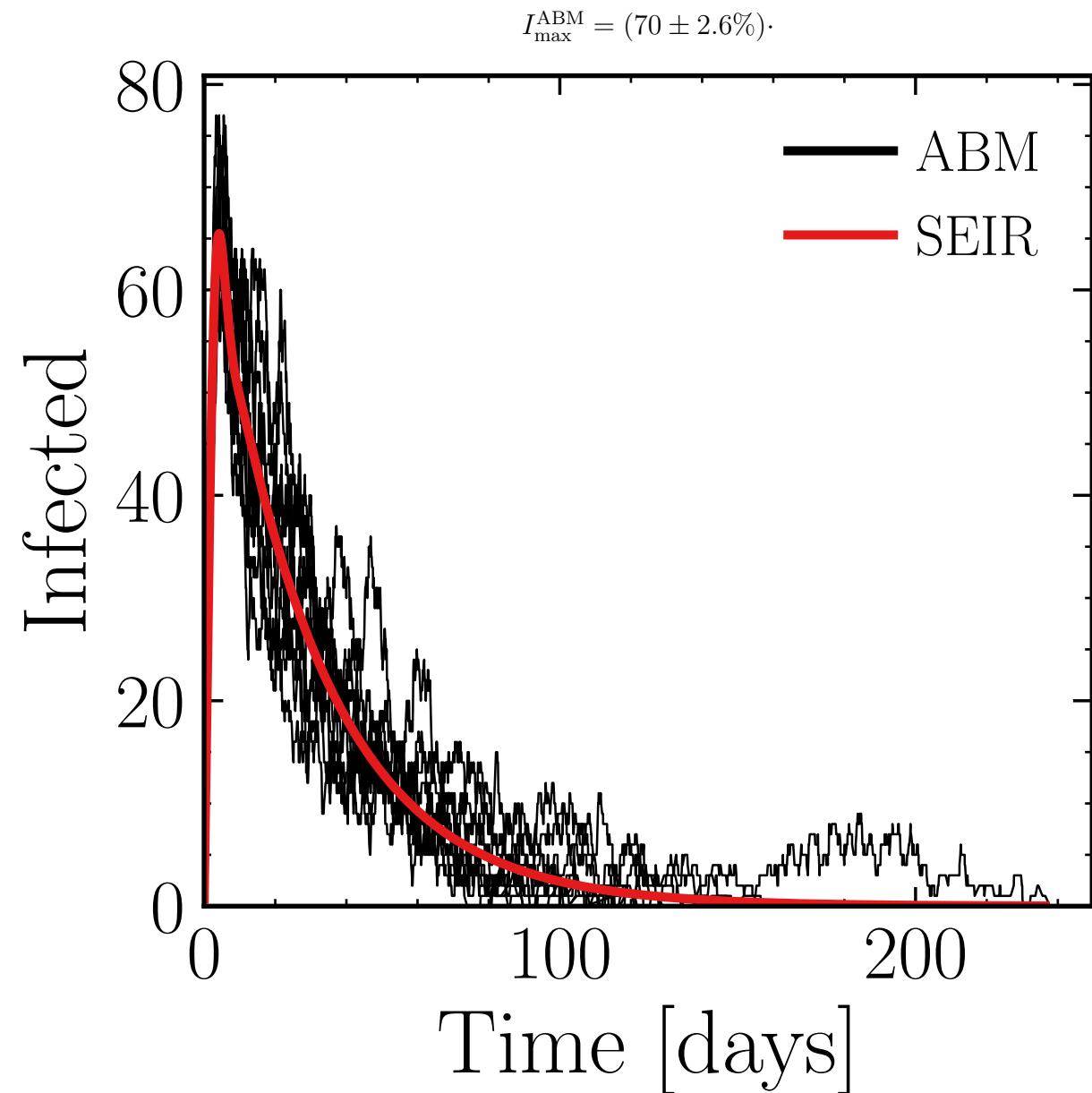
$$I_{\max}^{\text{ABM}} = (4.13 \pm 1.0\%) \cdot 10^3$$



$$R_{\infty}^{\text{ABM}} = (160.7 \pm 0.44\%) \cdot 10^3$$

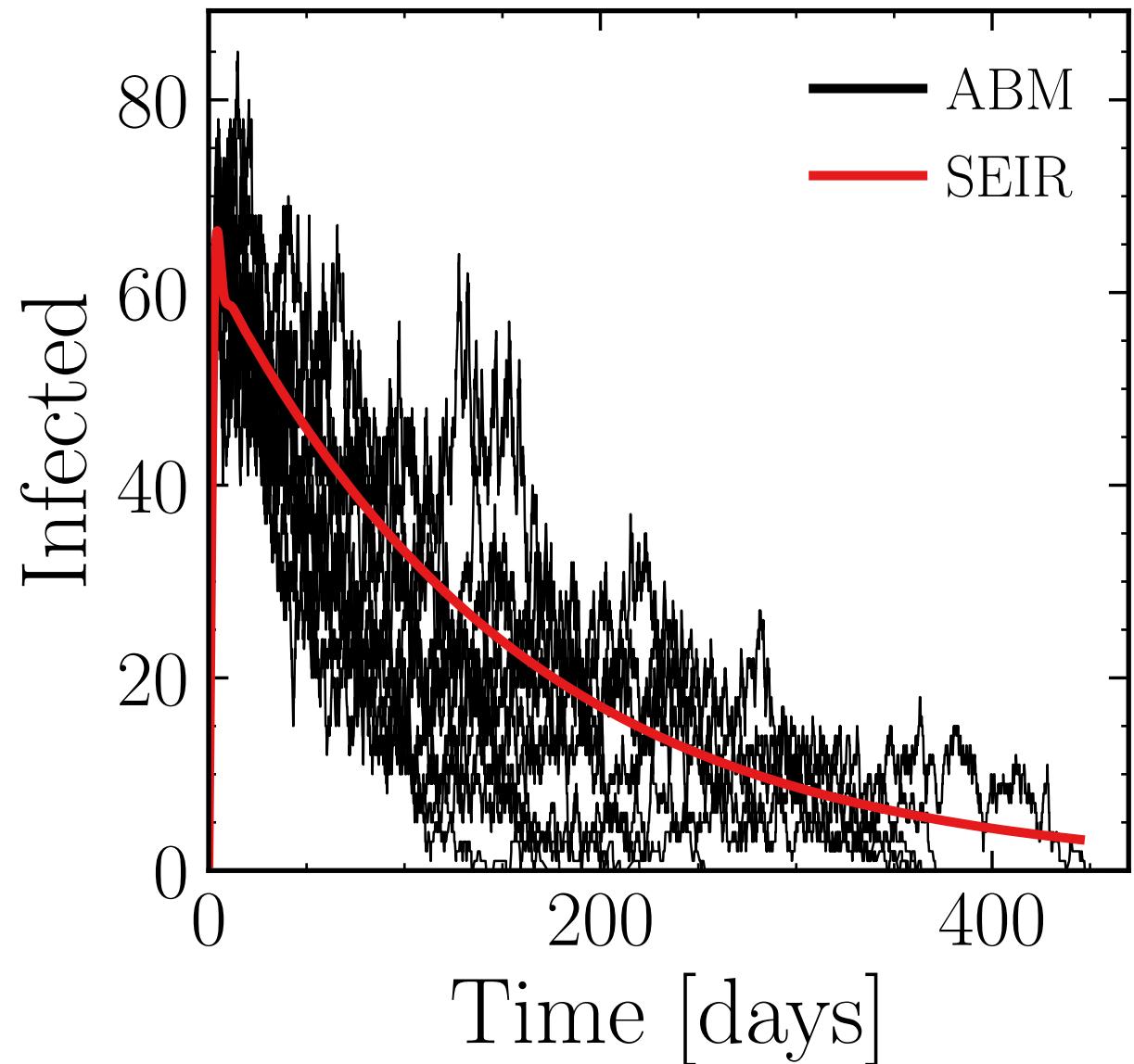


$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.005$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

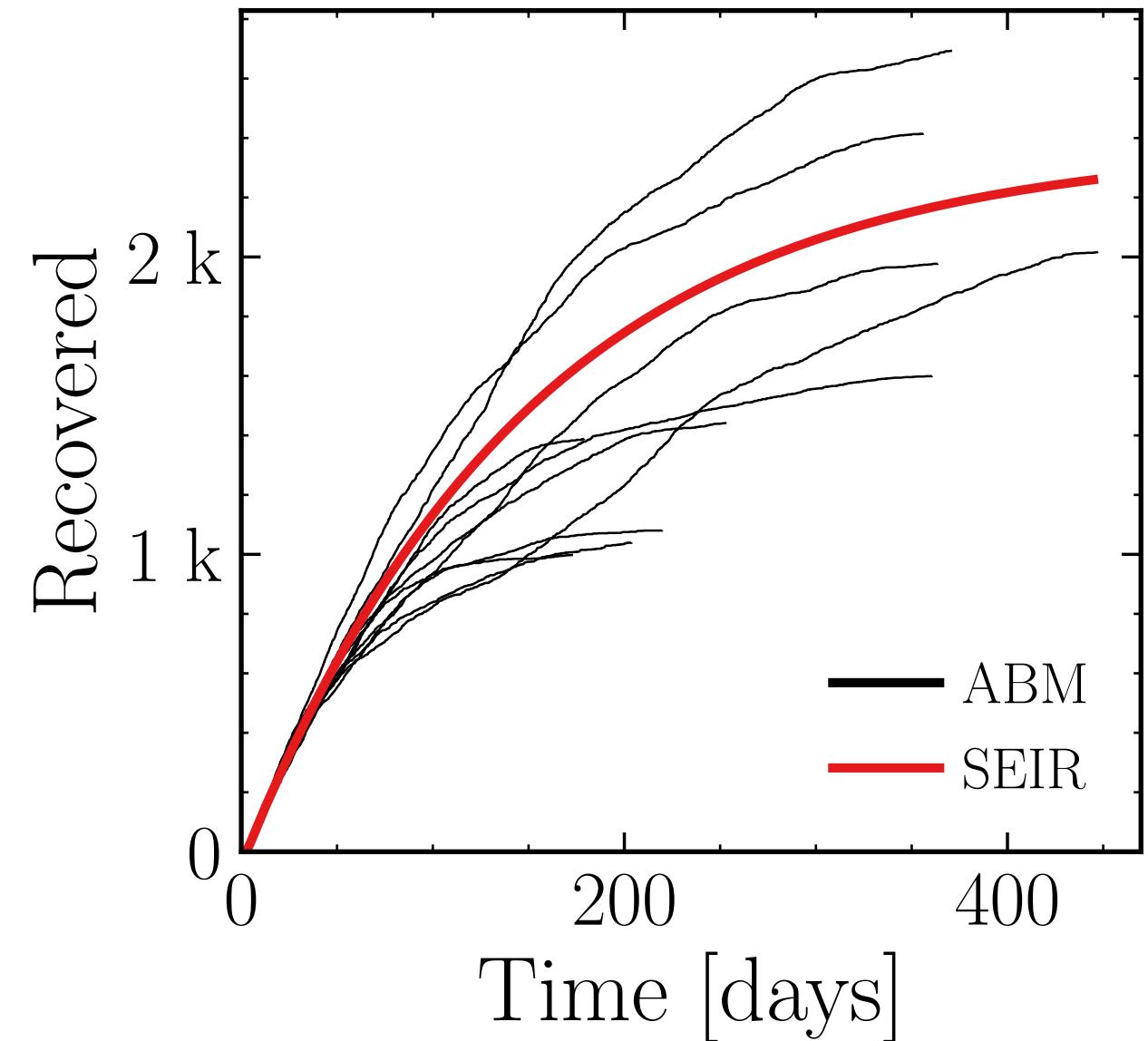


$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.006$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (74 \pm 2.6\%) \cdot$$

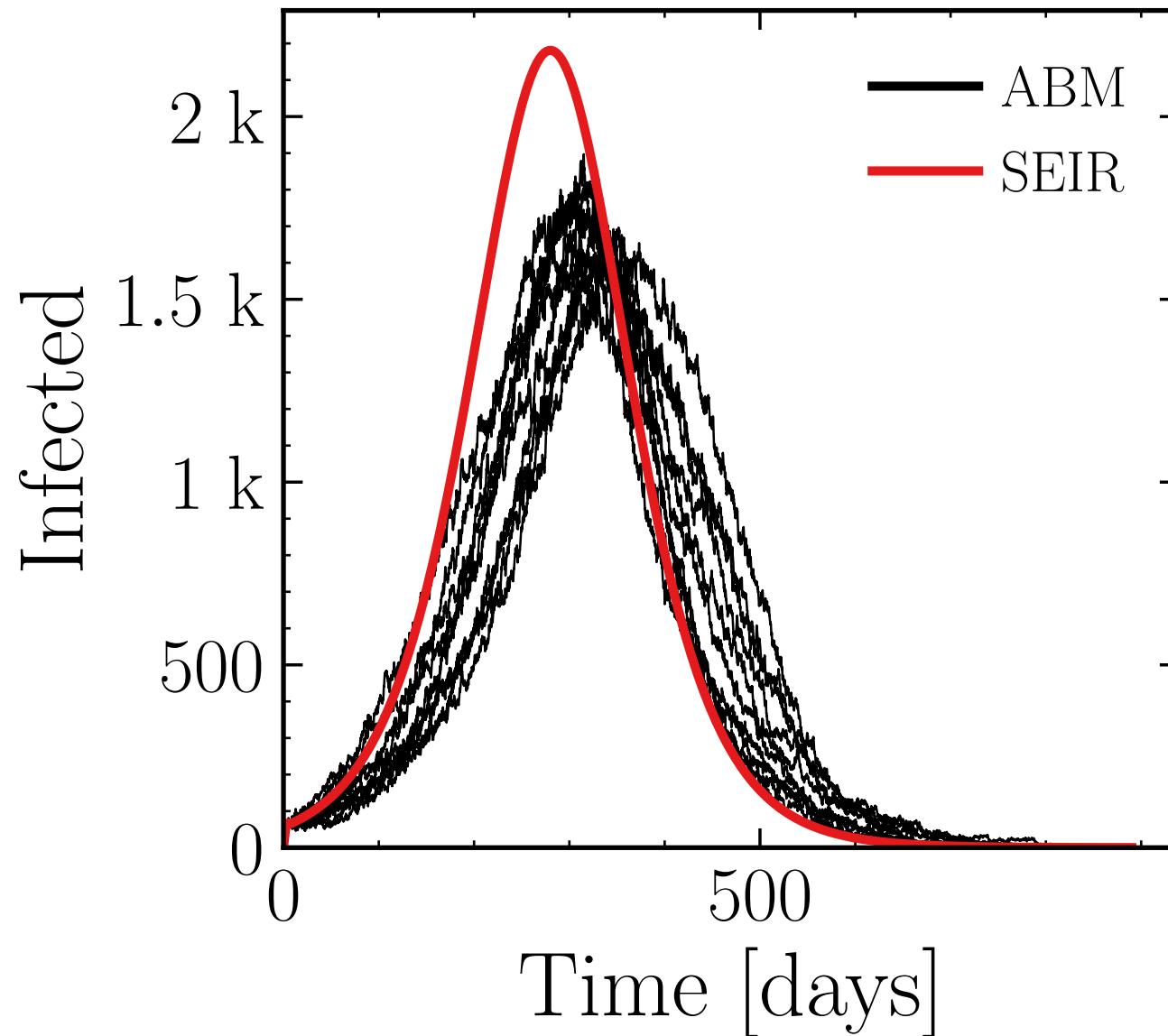


$$R_\infty^{\text{ABM}} = (1.7 \pm 1.1e+01\%) \cdot 10^3$$

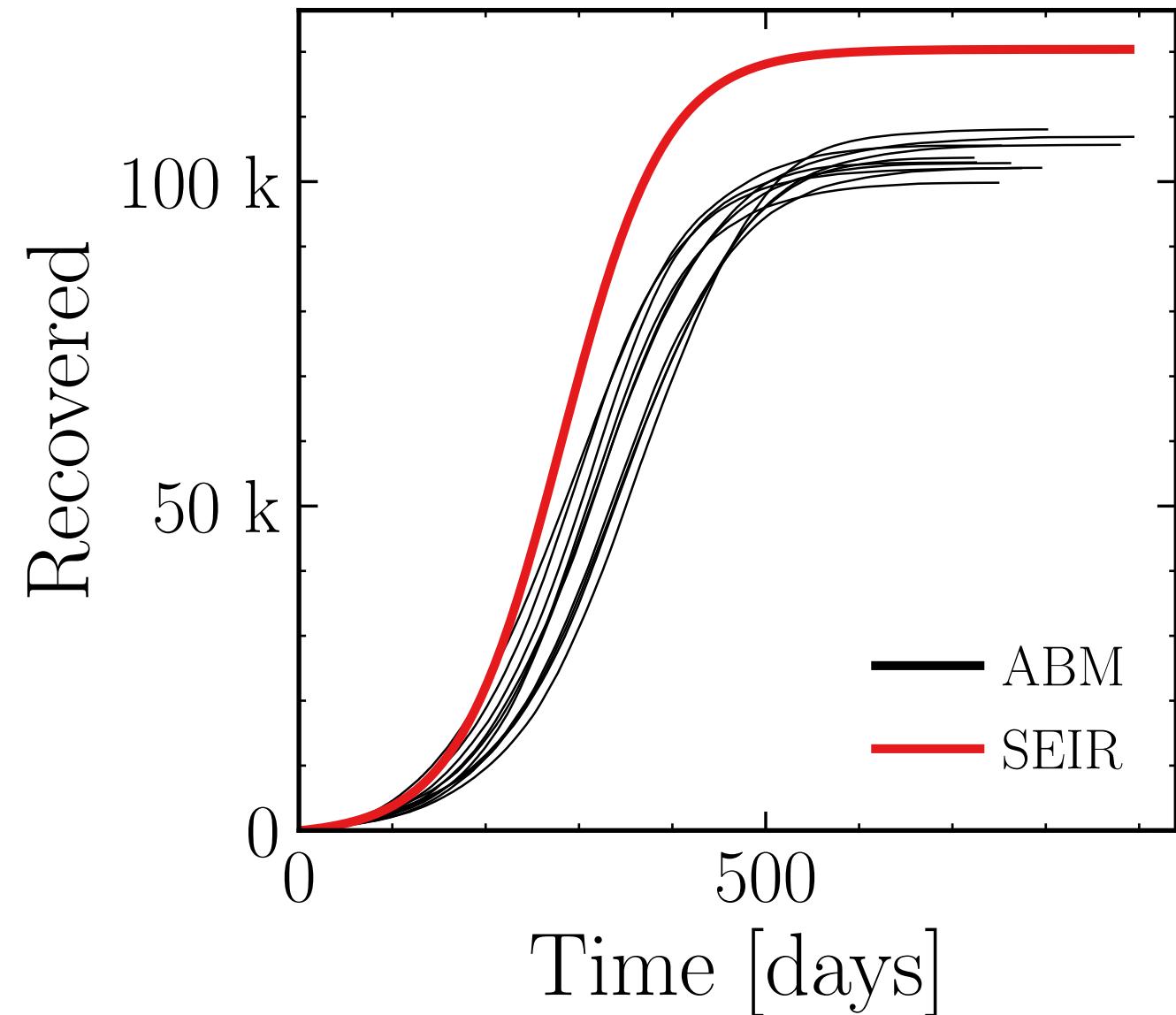


$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.007$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (1.73 \pm 1.5\%) \cdot 10^3$$

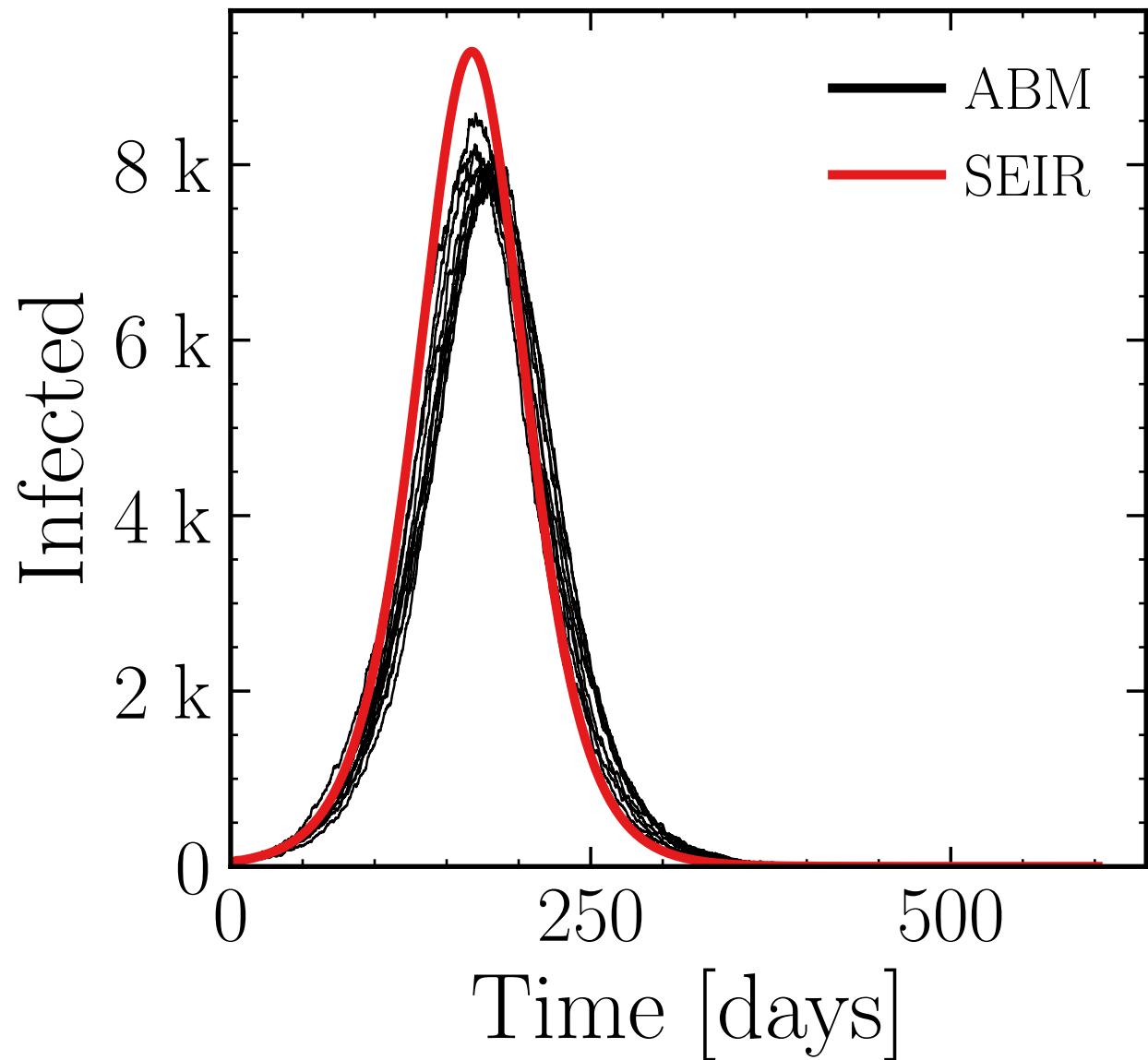


$$R_{\infty}^{\text{ABM}} = (104 \pm 0.73\%) \cdot 10^3$$

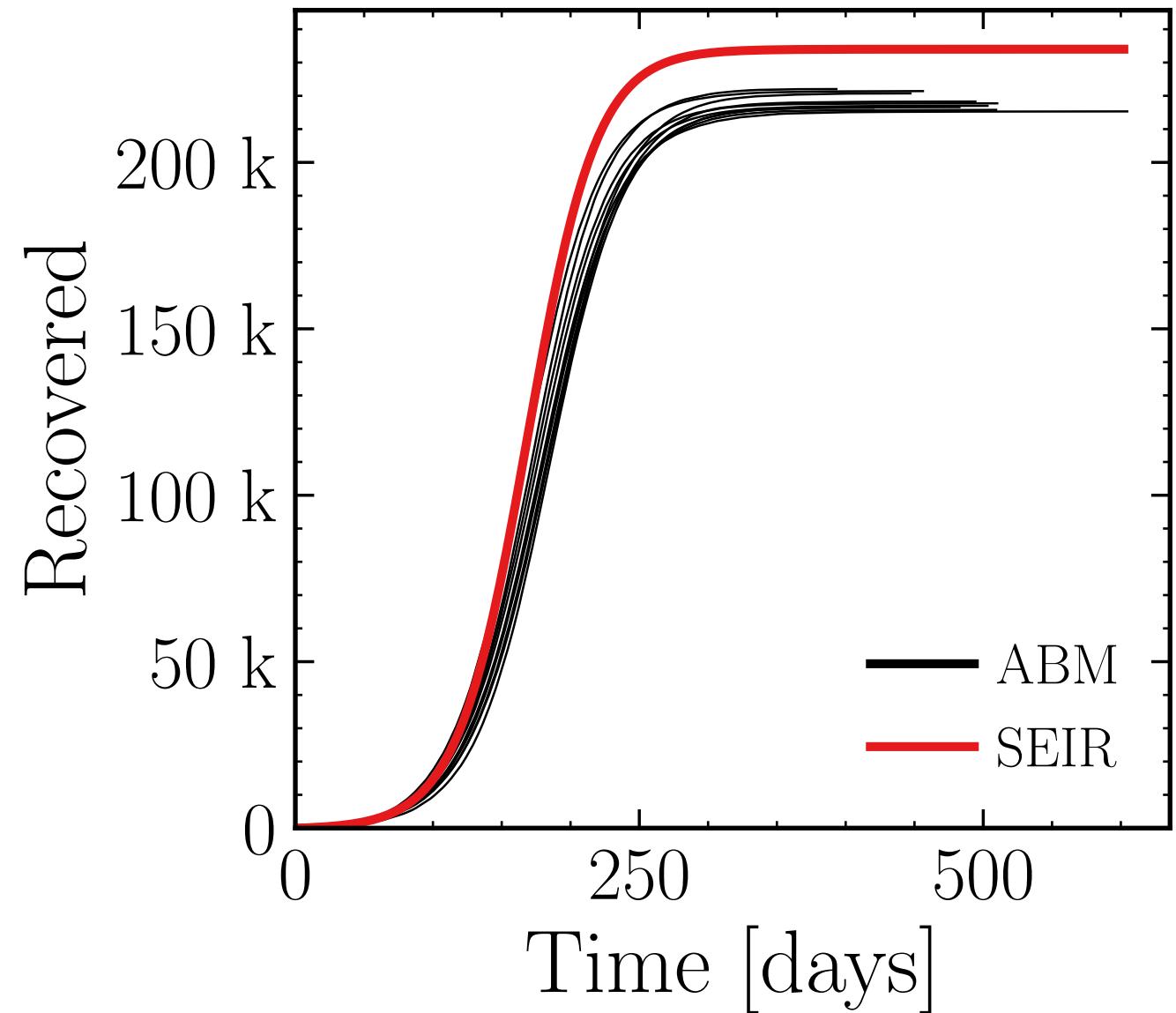


$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.008$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (8.04 \pm 0.93\%) \cdot 10^3$$



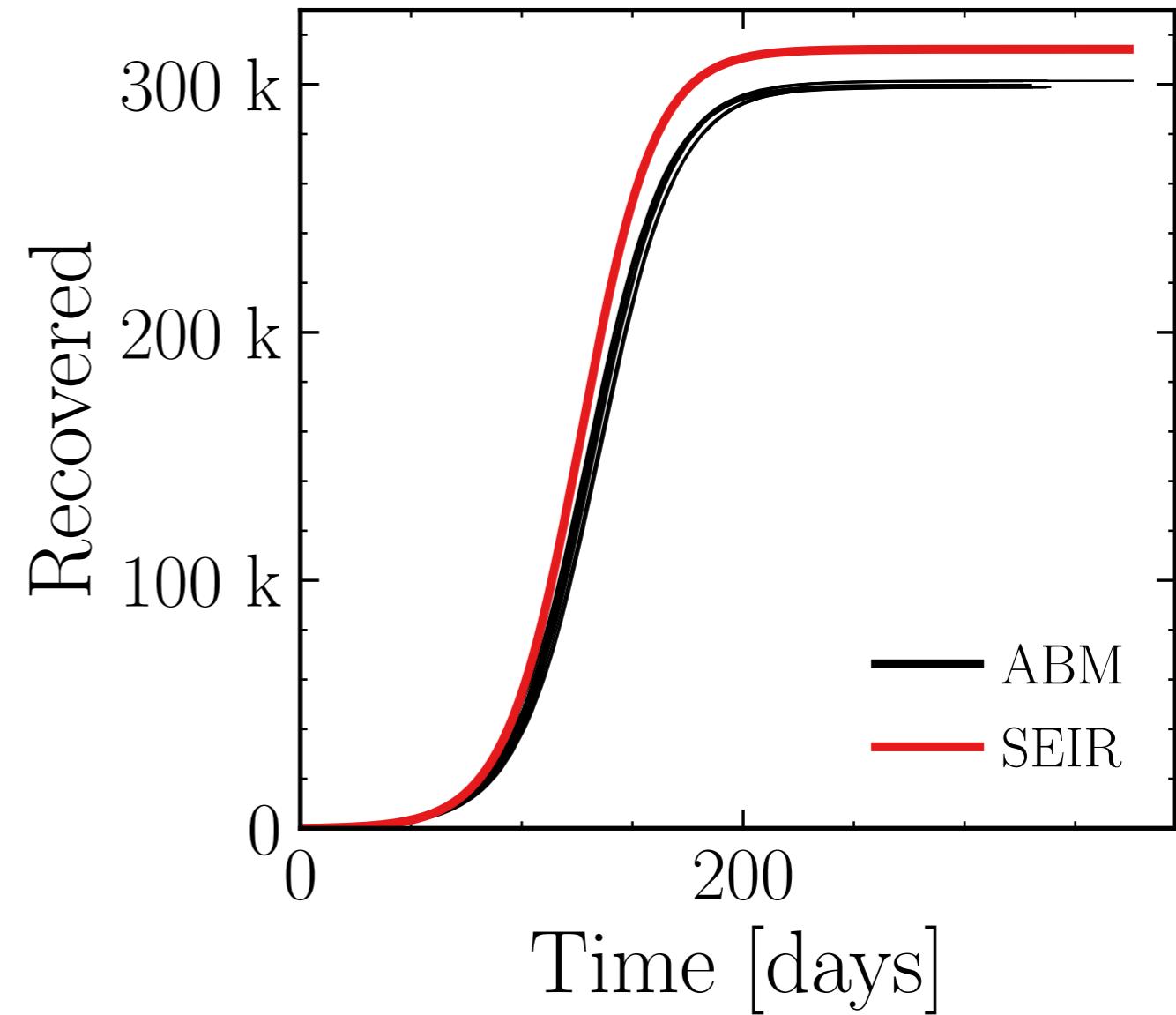
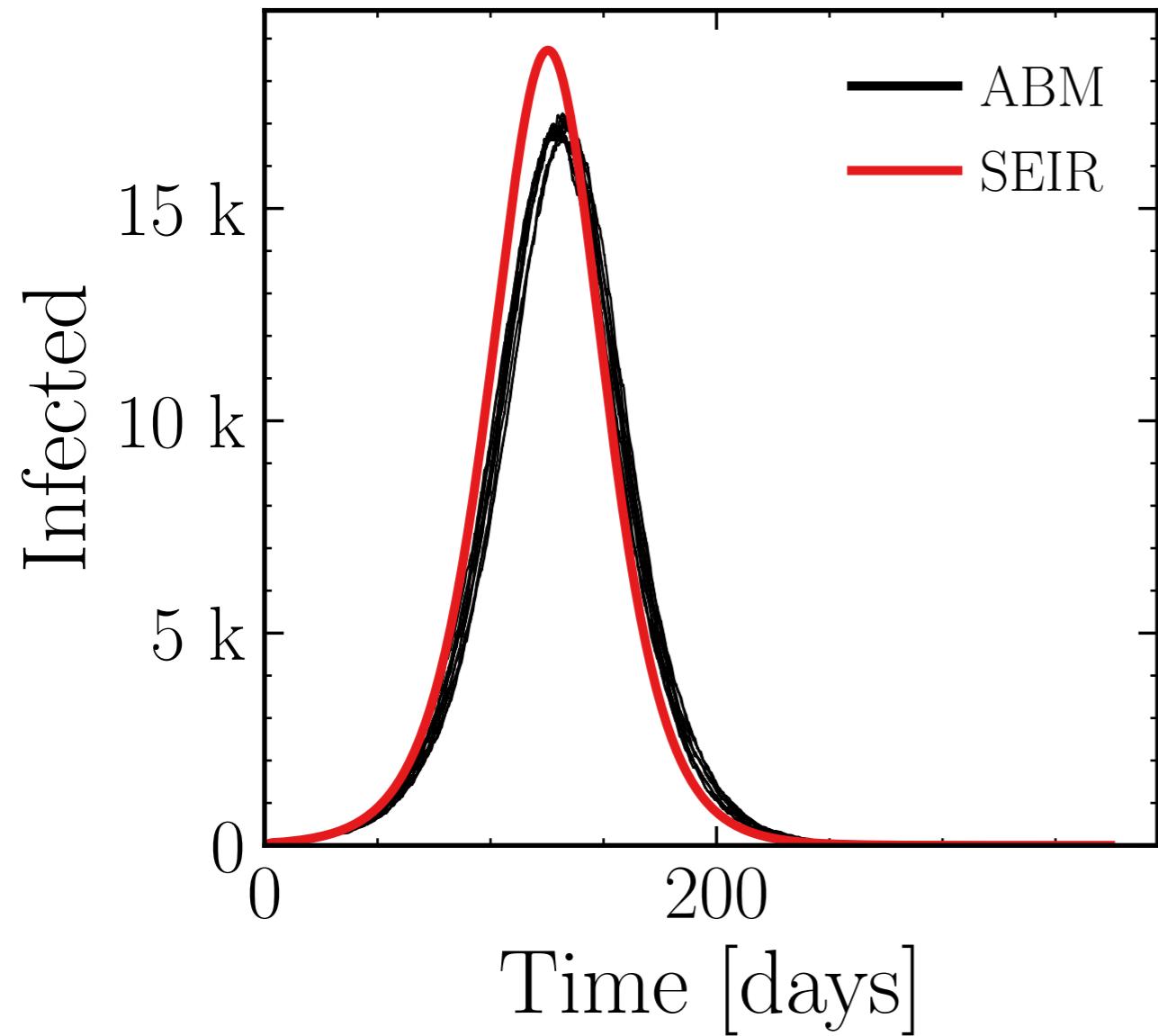
$$R_{\infty}^{\text{ABM}} = (218.1 \pm 0.33\%) \cdot 10^3$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.009$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

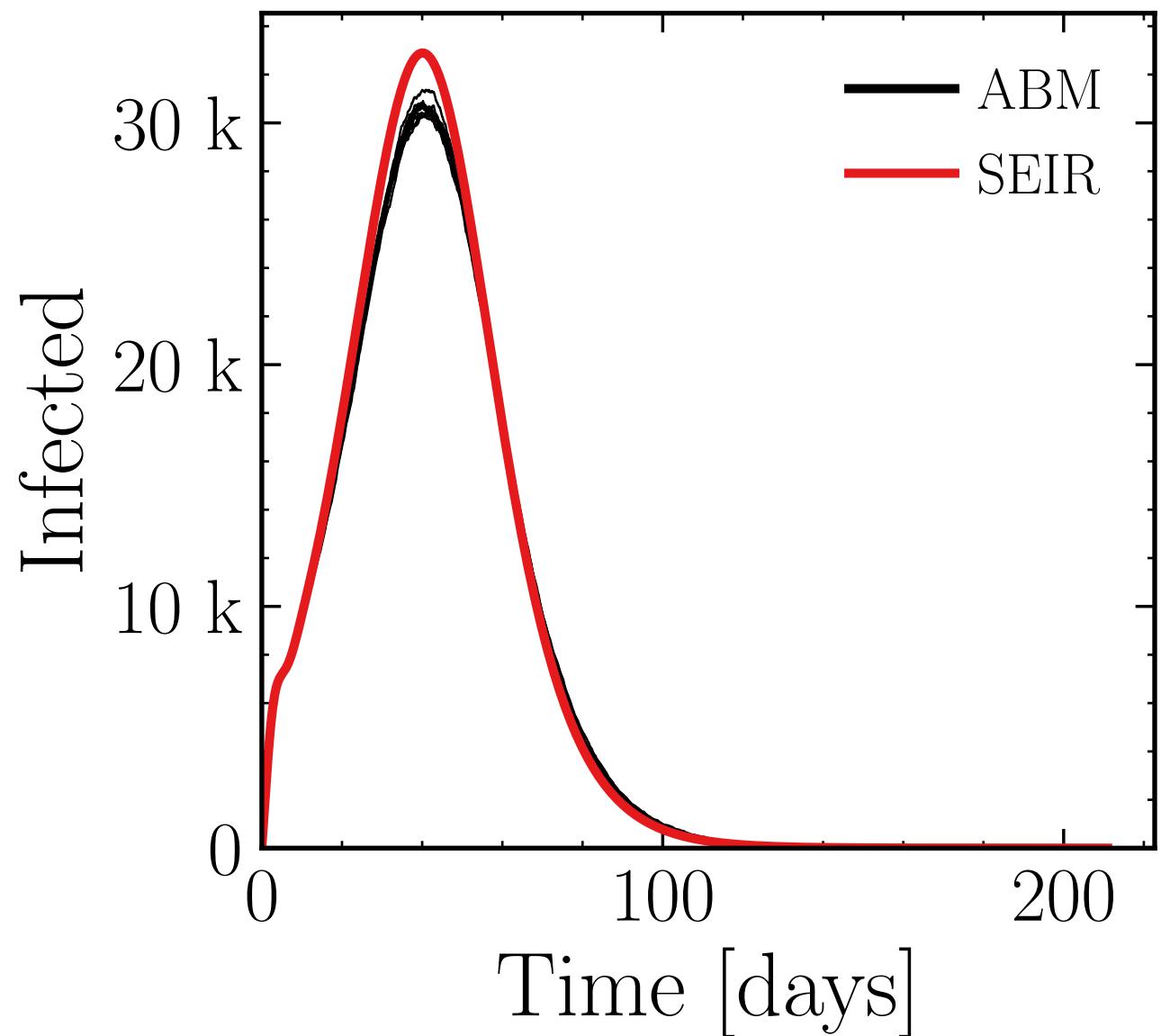
$$I_{\max}^{\text{ABM}} = (16.98 \pm 0.32\%) \cdot 10^3$$

$$R_\infty^{\text{ABM}} = (300.1 \pm 0.12\%) \cdot 10^3$$

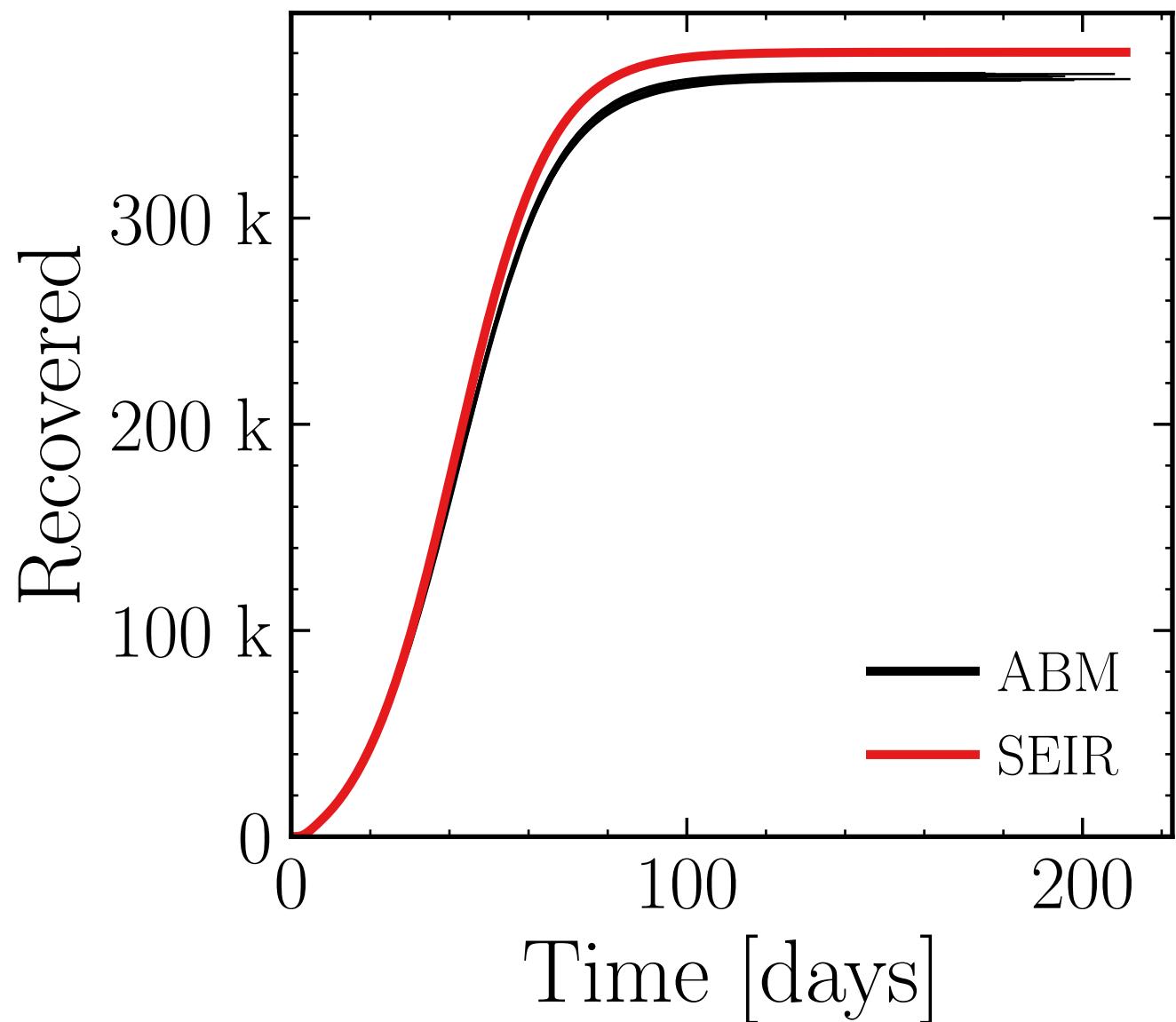


$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 10K$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (30.7 \pm 0.3\%) \cdot 10^3$$



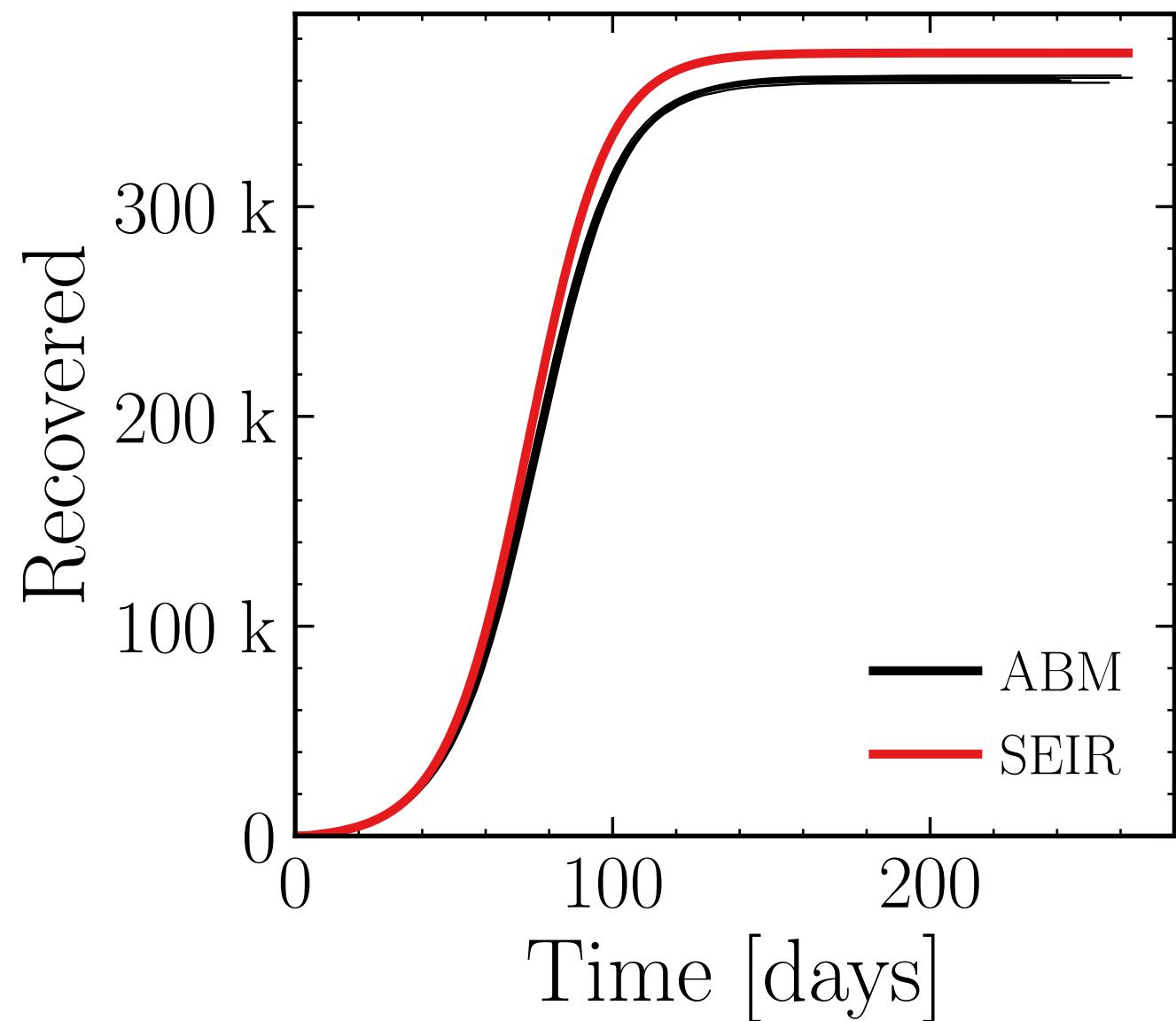
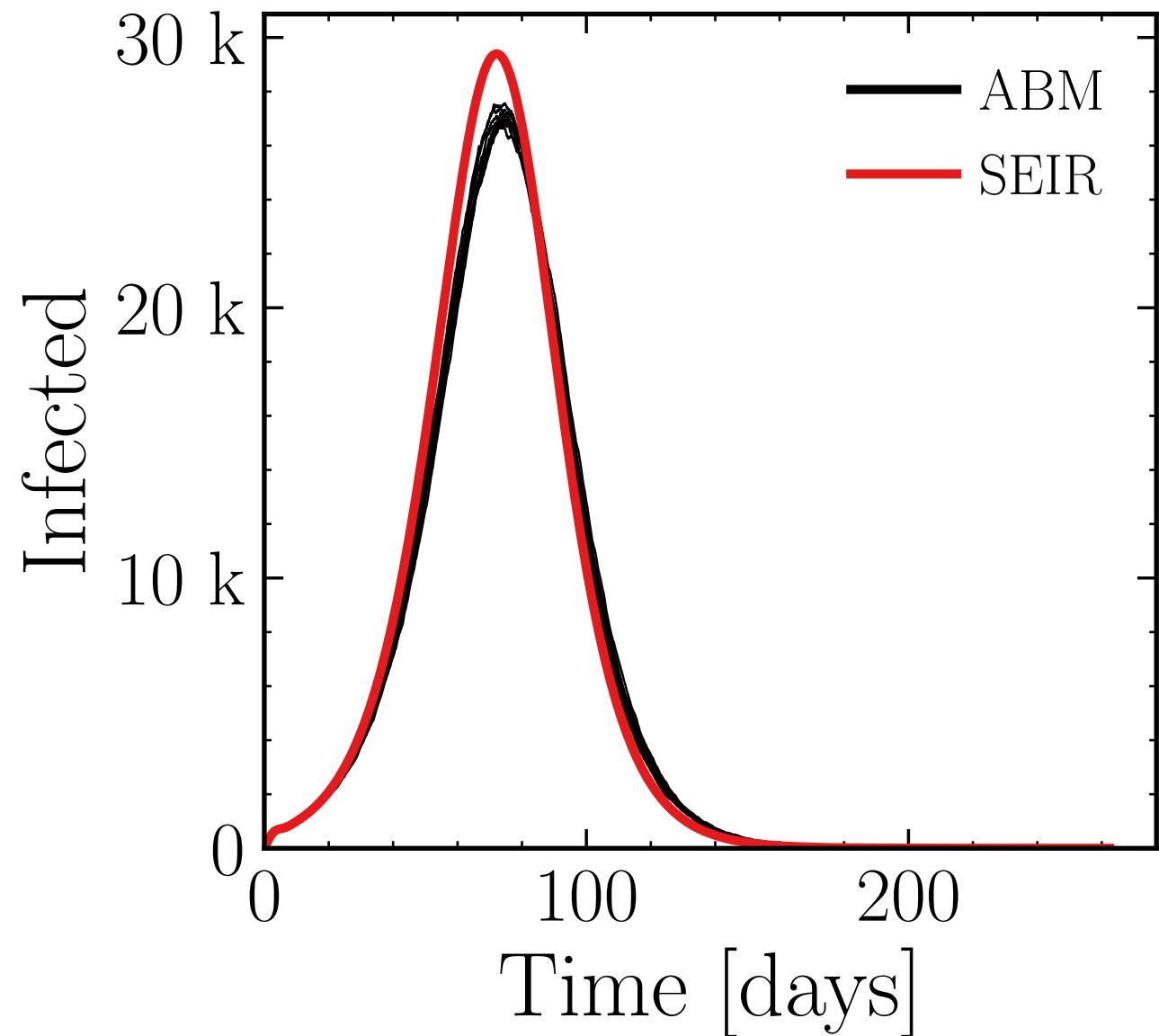
$$R_\infty^{\text{ABM}} = (368.6 \pm 0.11\%) \cdot 10^3$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 1K$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (27.12 \pm 0.28\%) \cdot 10^3$$

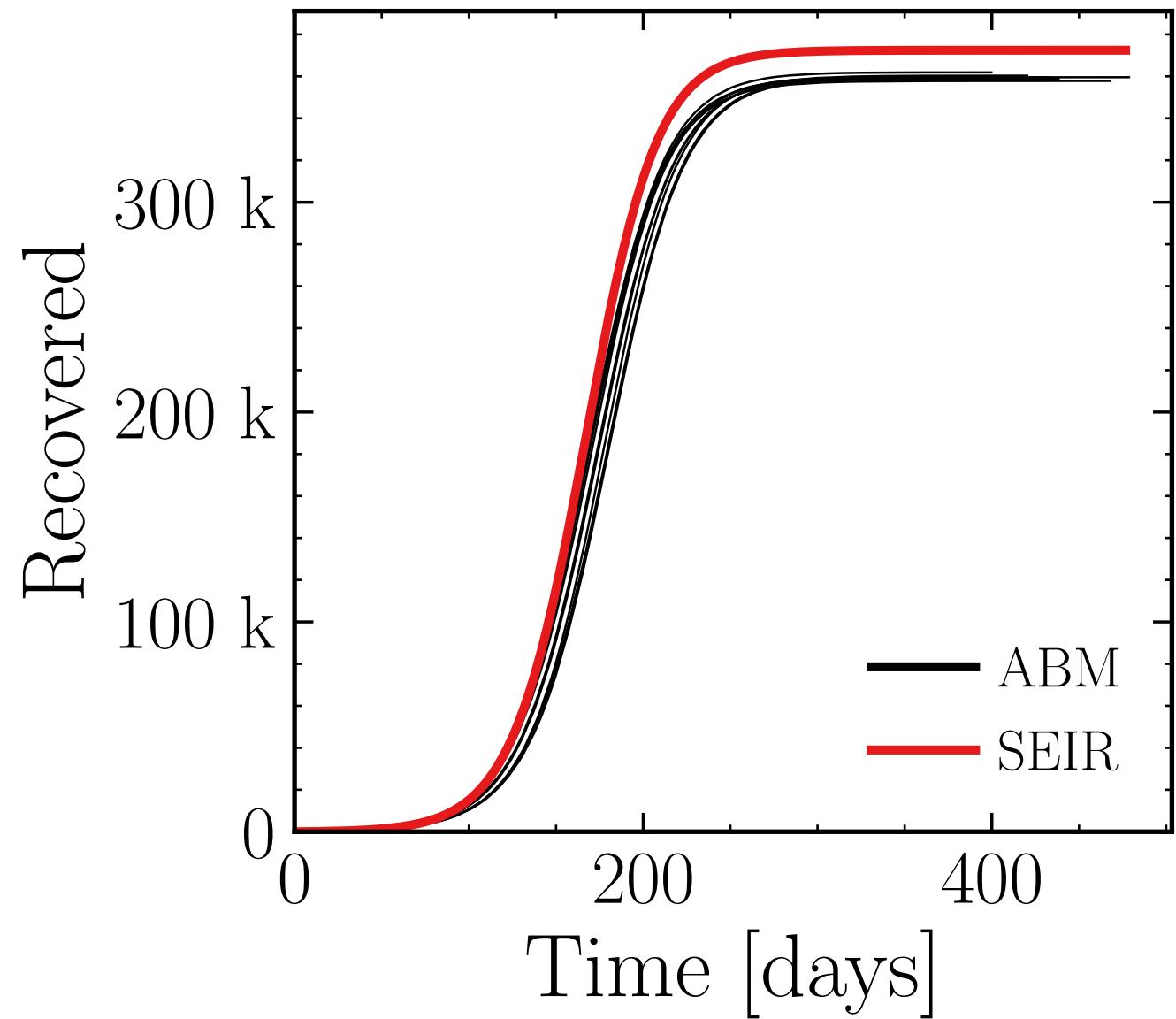
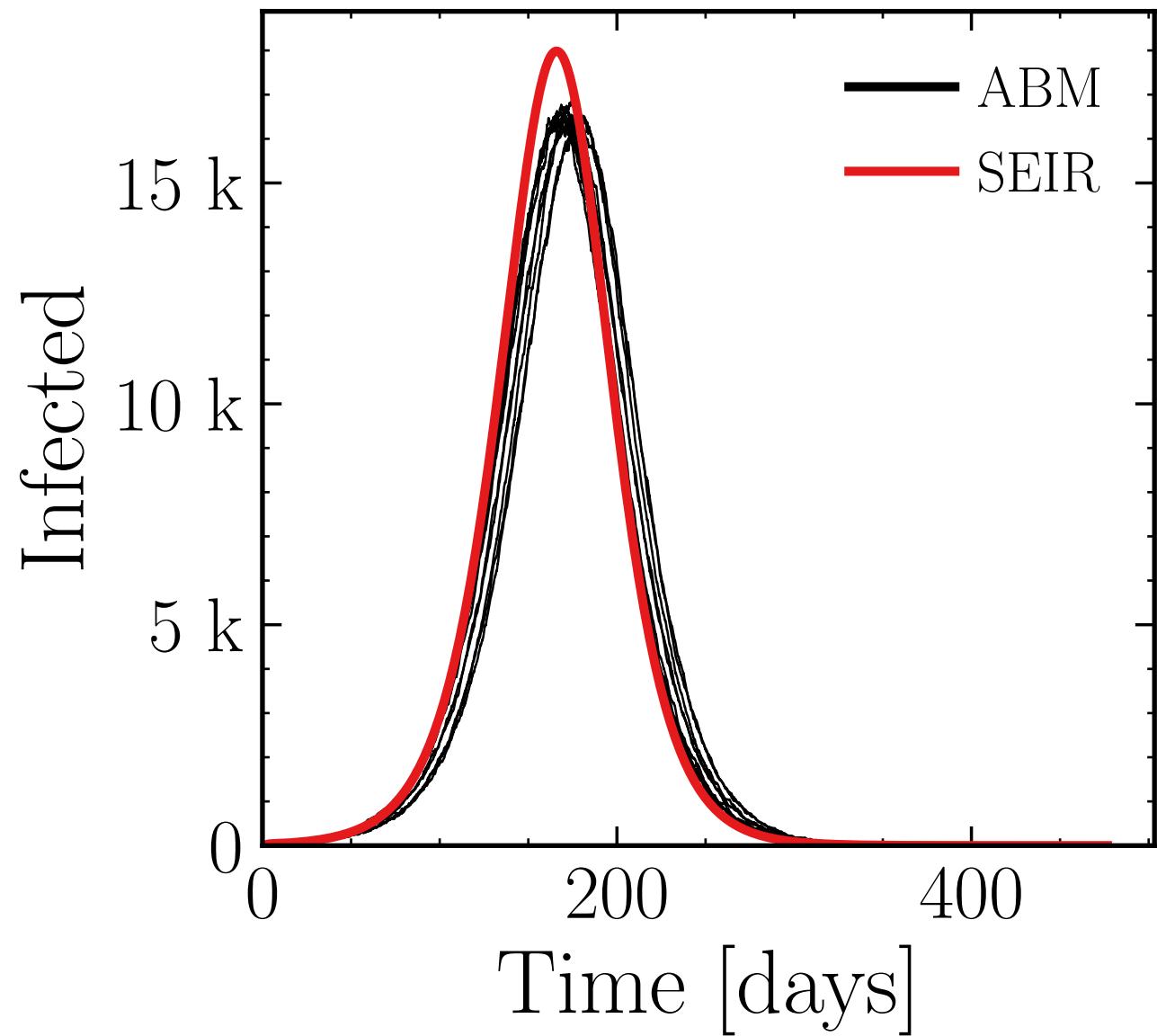
$$R_\infty^{\text{ABM}} = (360.9 \pm 0.078\%) \cdot 10^3$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 0.5$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

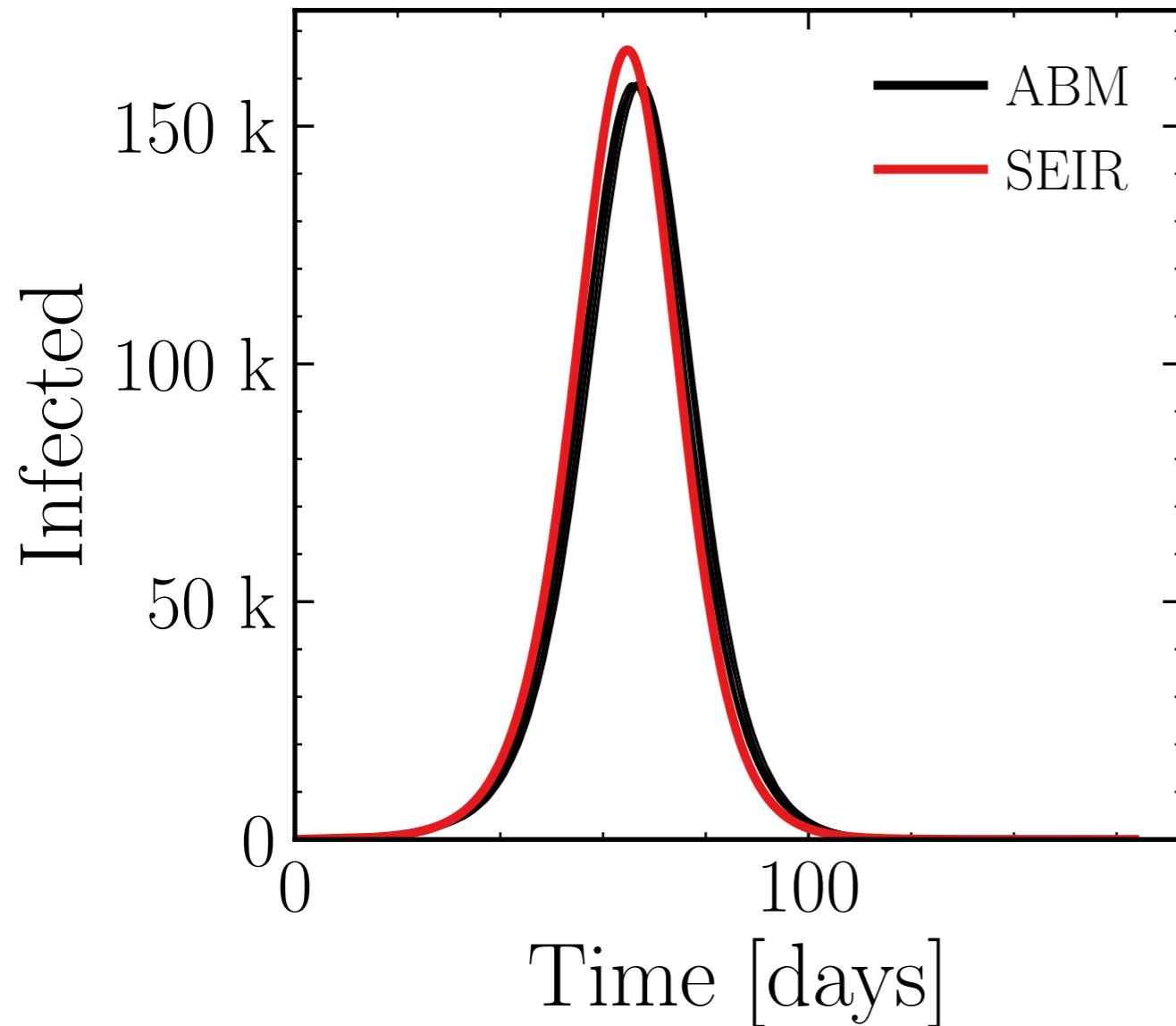
$$I_{\max}^{\text{ABM}} = (16.6 \pm 0.27\%) \cdot 10^3$$

$$R_\infty^{\text{ABM}} = (359.6 \pm 0.089\%) \cdot 10^3$$

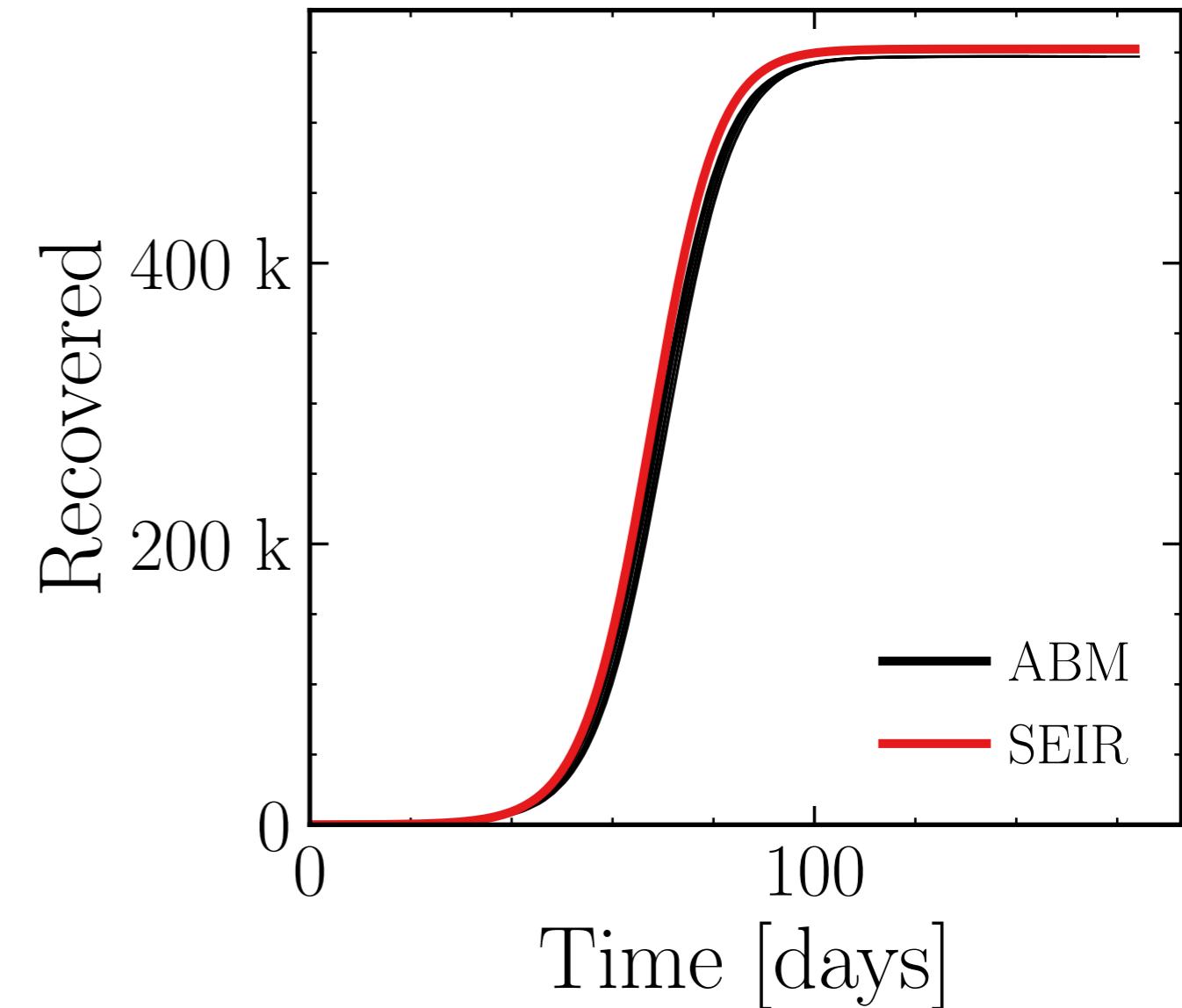


$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 0.5$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (158.99 \pm 0.041\%) \cdot 10^3$$



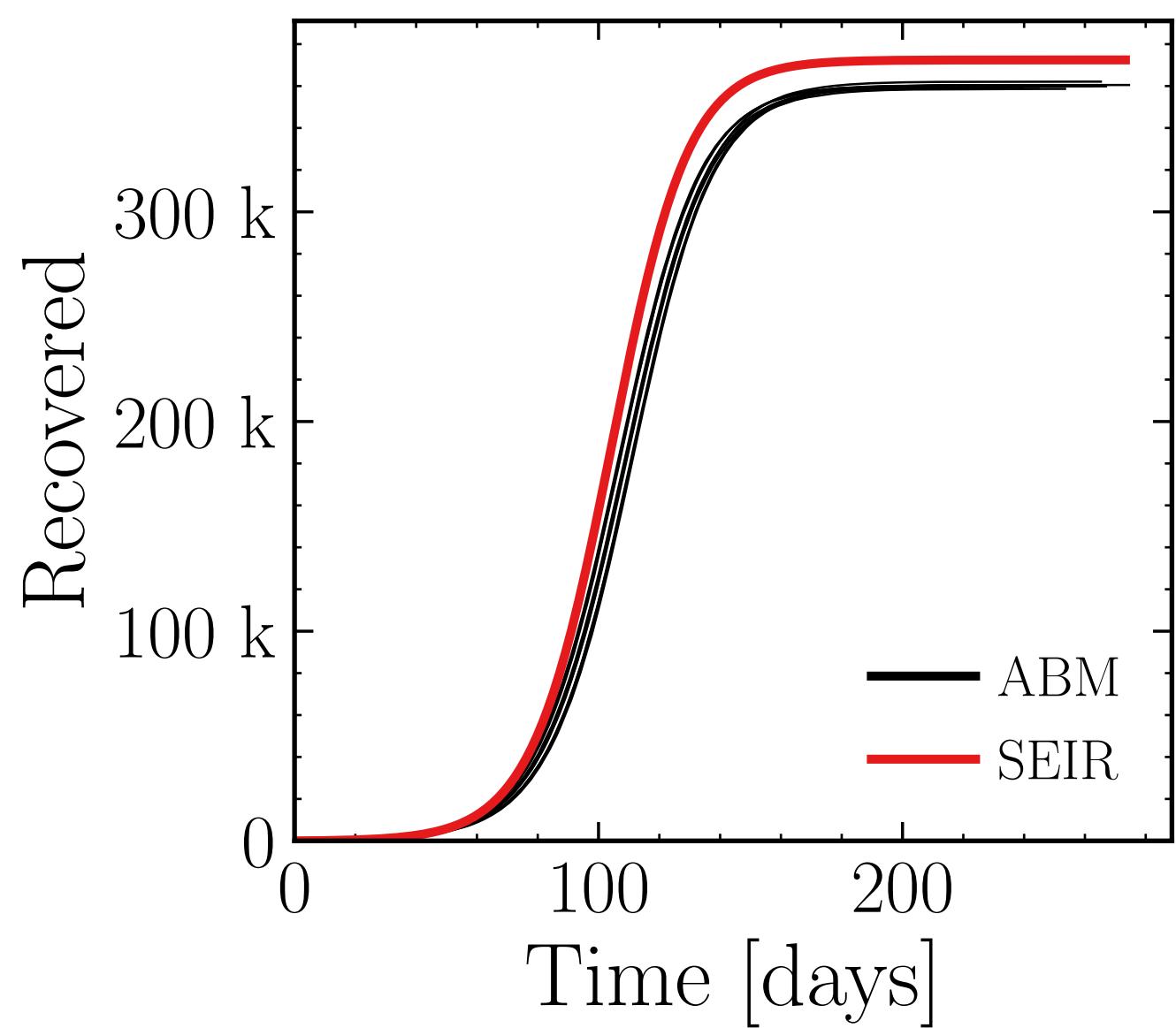
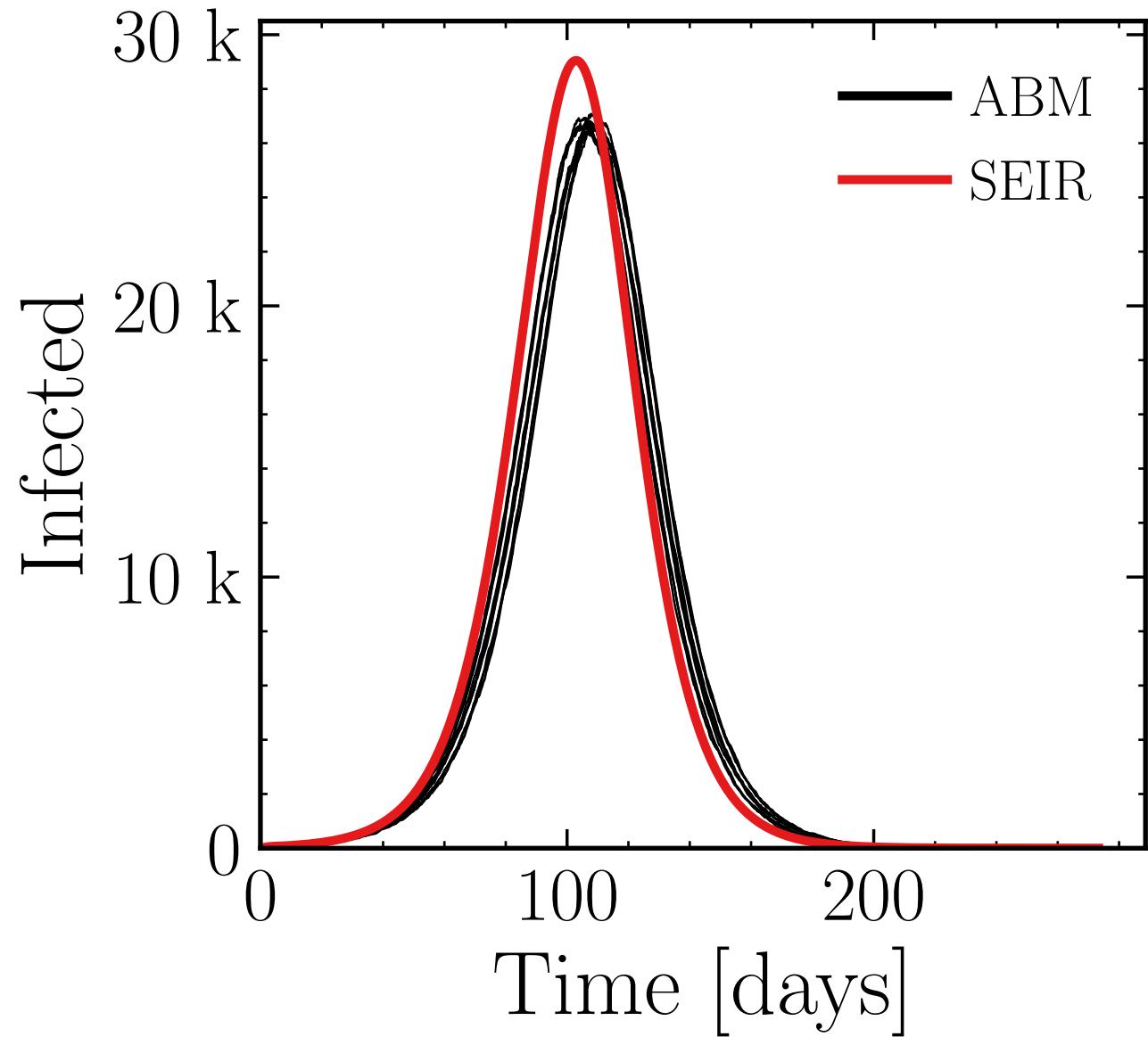
$$R_\infty^{\text{ABM}} = (547.18 \pm 0.0086\%) \cdot 10^3$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

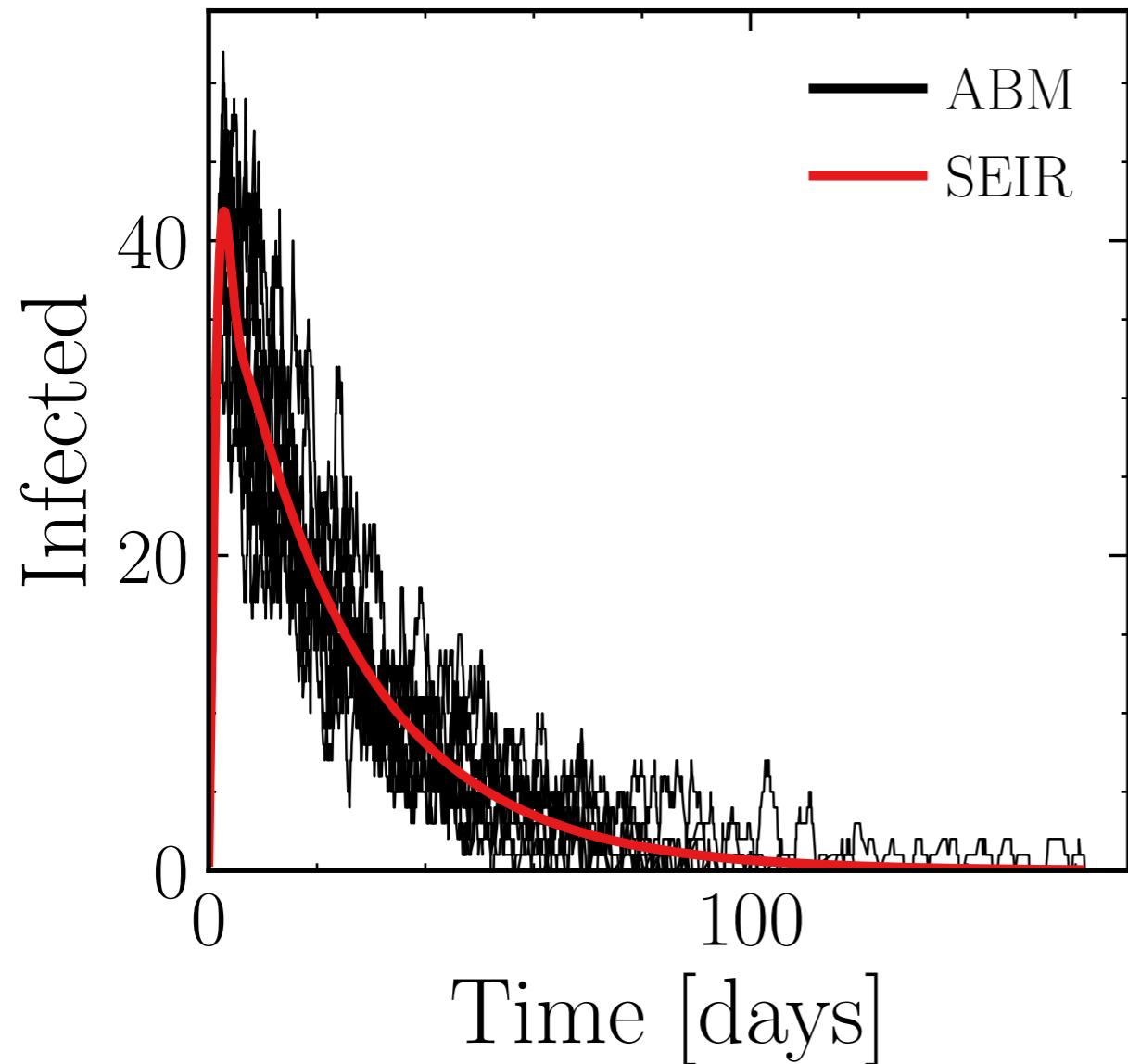
$$I_{\max}^{\text{ABM}} = (26.75 \pm 0.2\%) \cdot 10^3$$

$$R_{\infty}^{\text{ABM}} = (360.1 \pm 0.076\%) \cdot 10^3$$

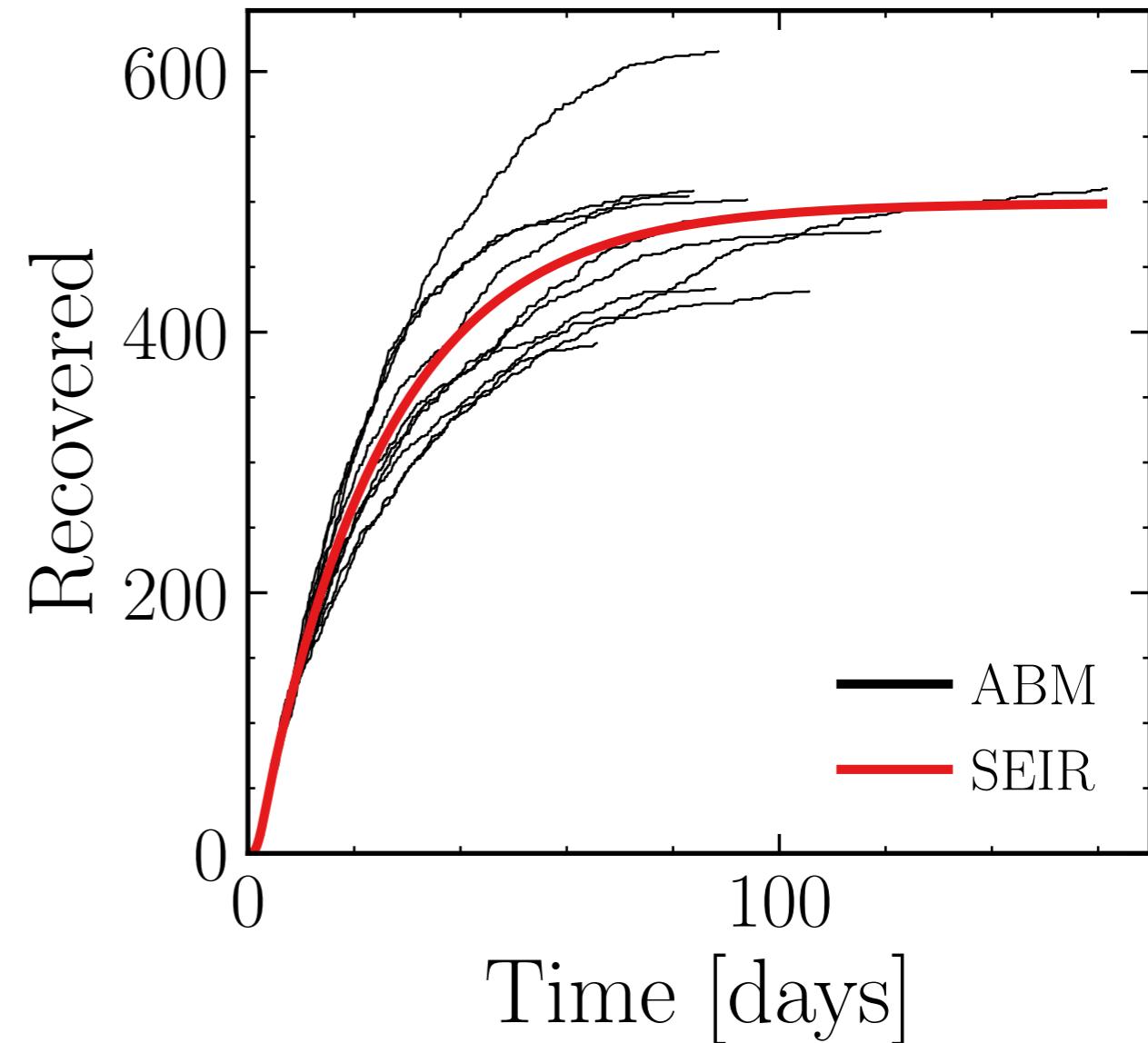


$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 2.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (46 \pm 2.5\%) \cdot$$

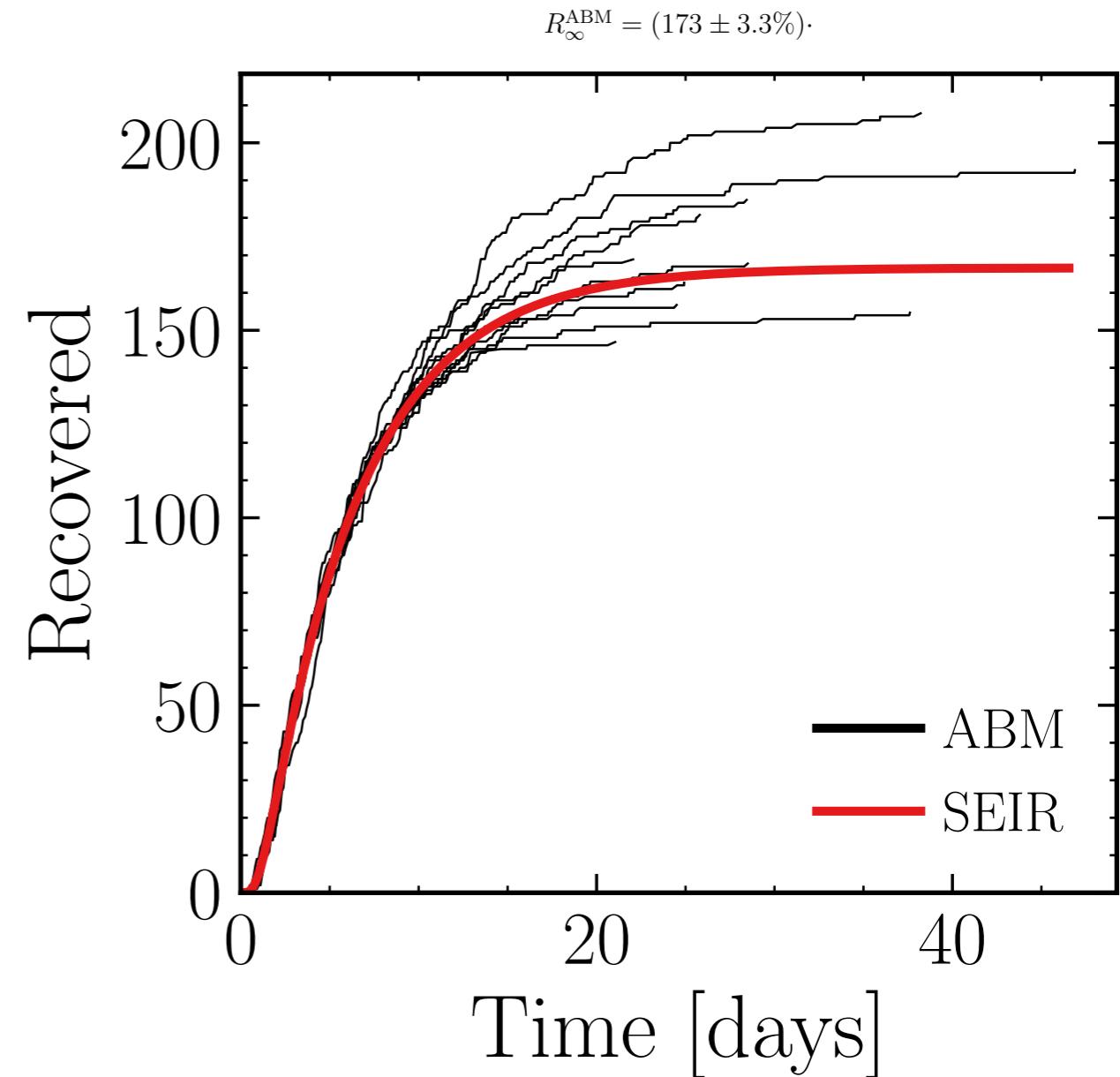
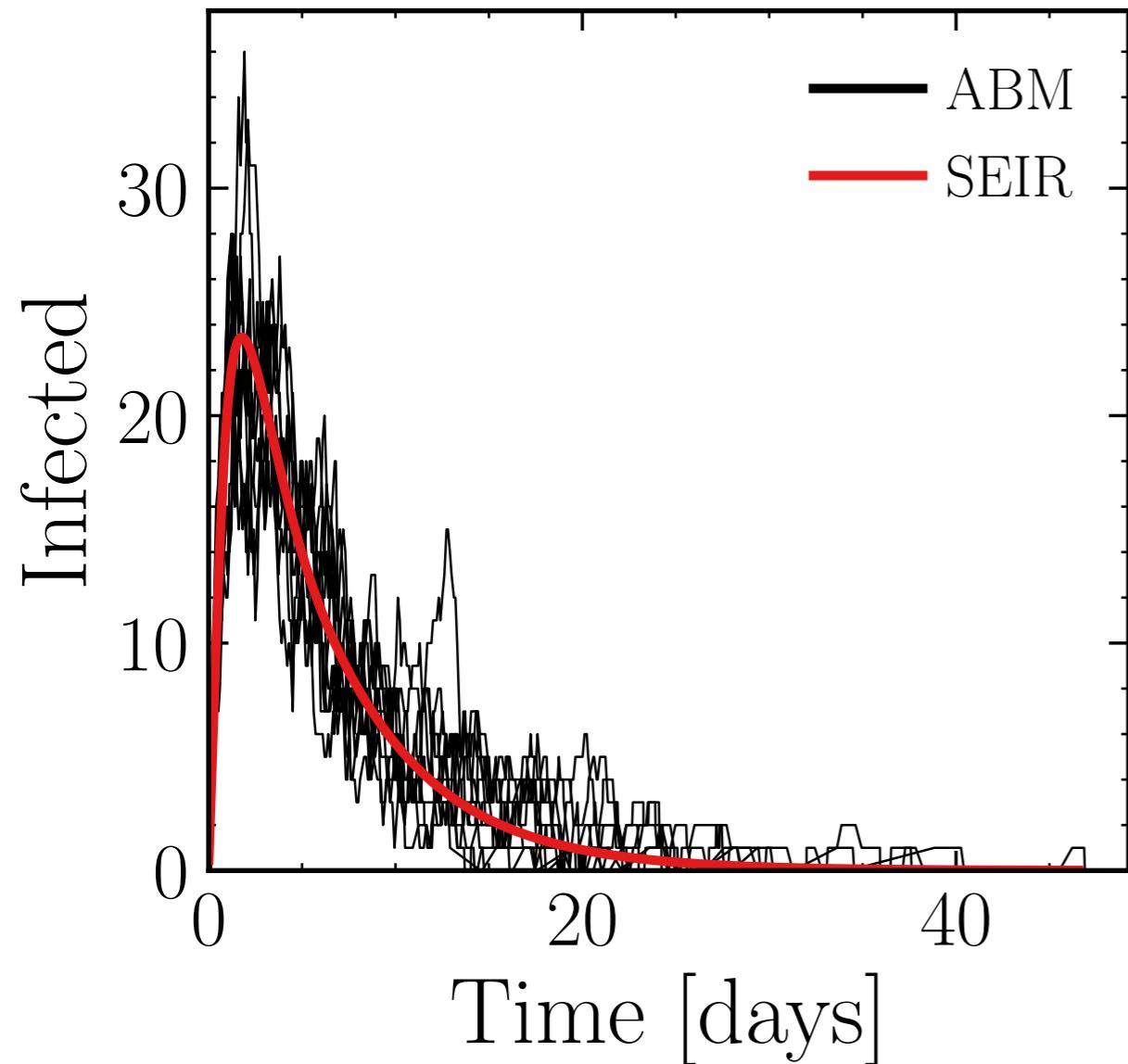


$$R_{\infty}^{\text{ABM}} = (490 \pm 3.7\%) \cdot$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 4.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

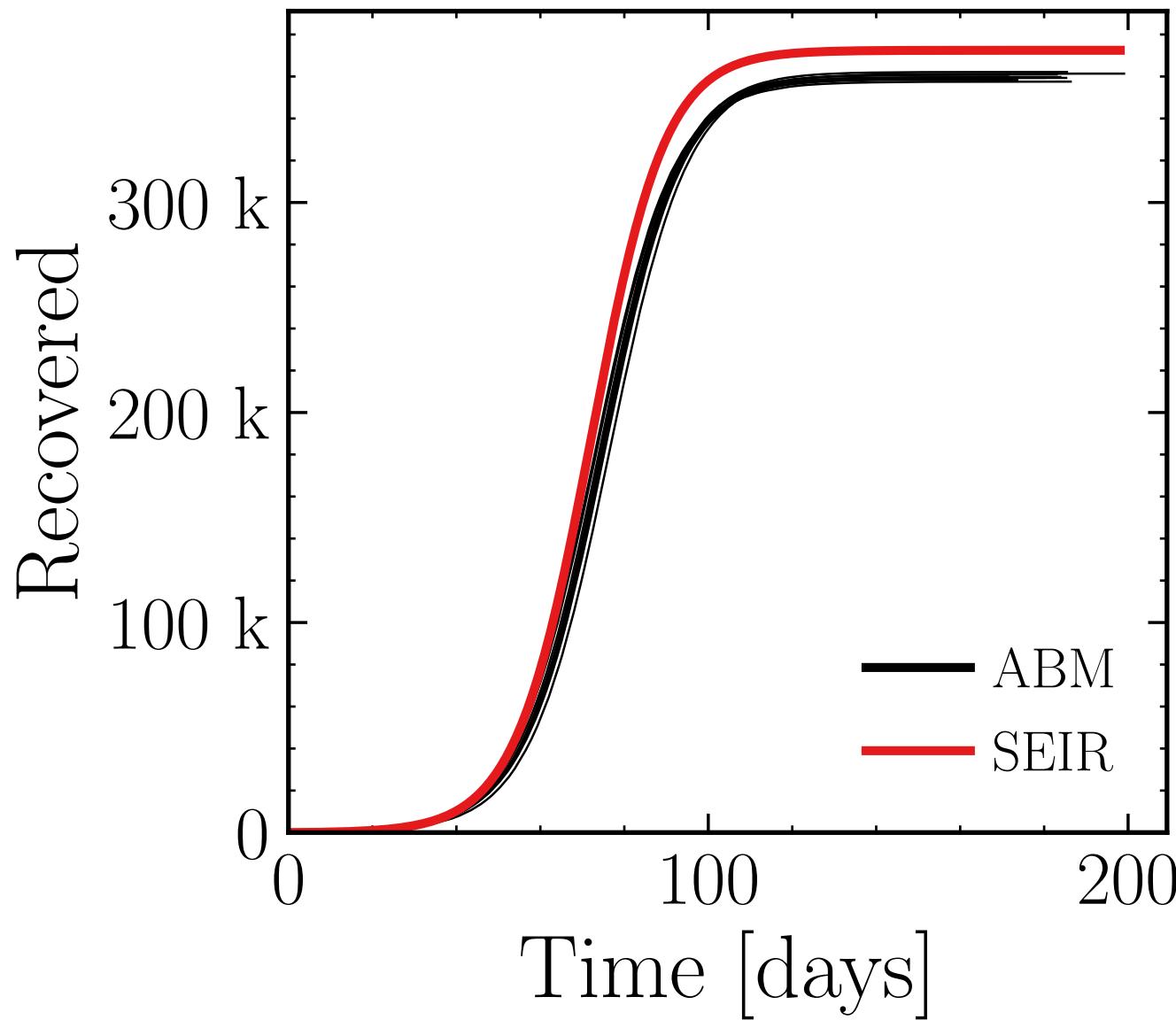
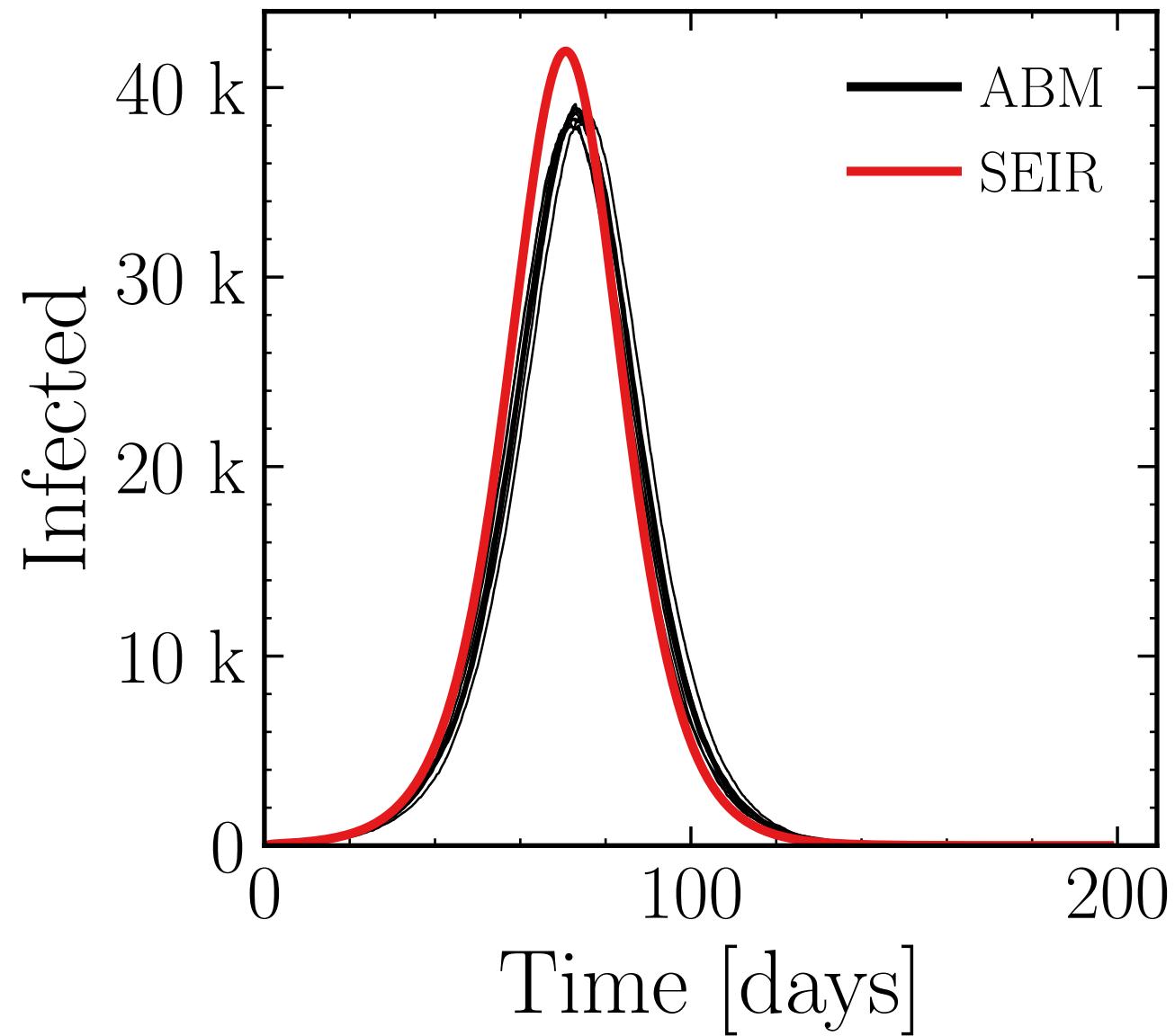
$$I_{\max}^{\text{ABM}} = (28 \pm 3.8\%) \cdot$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 2.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (38.6 \pm 0.29\%) \cdot 10^3$$

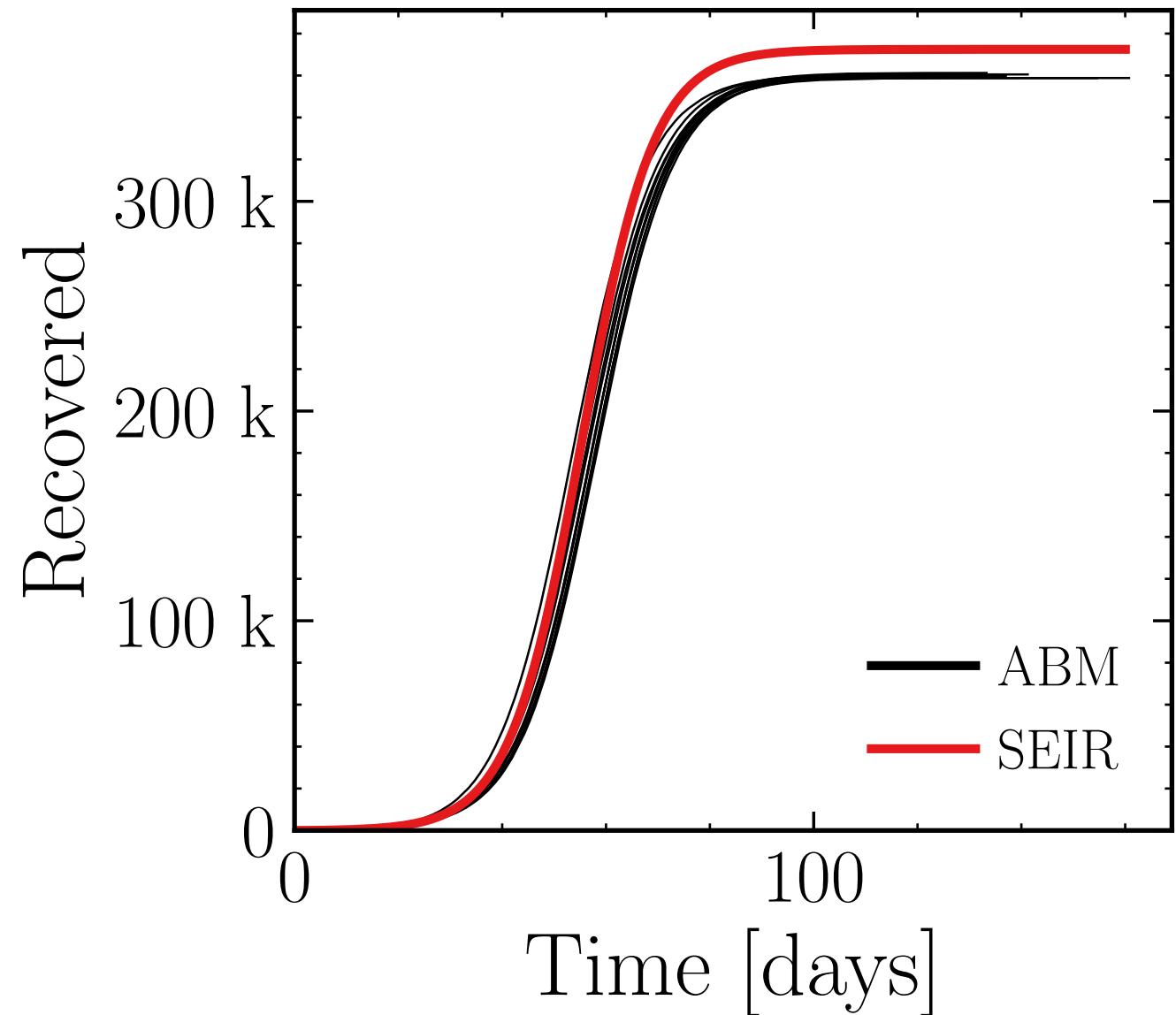
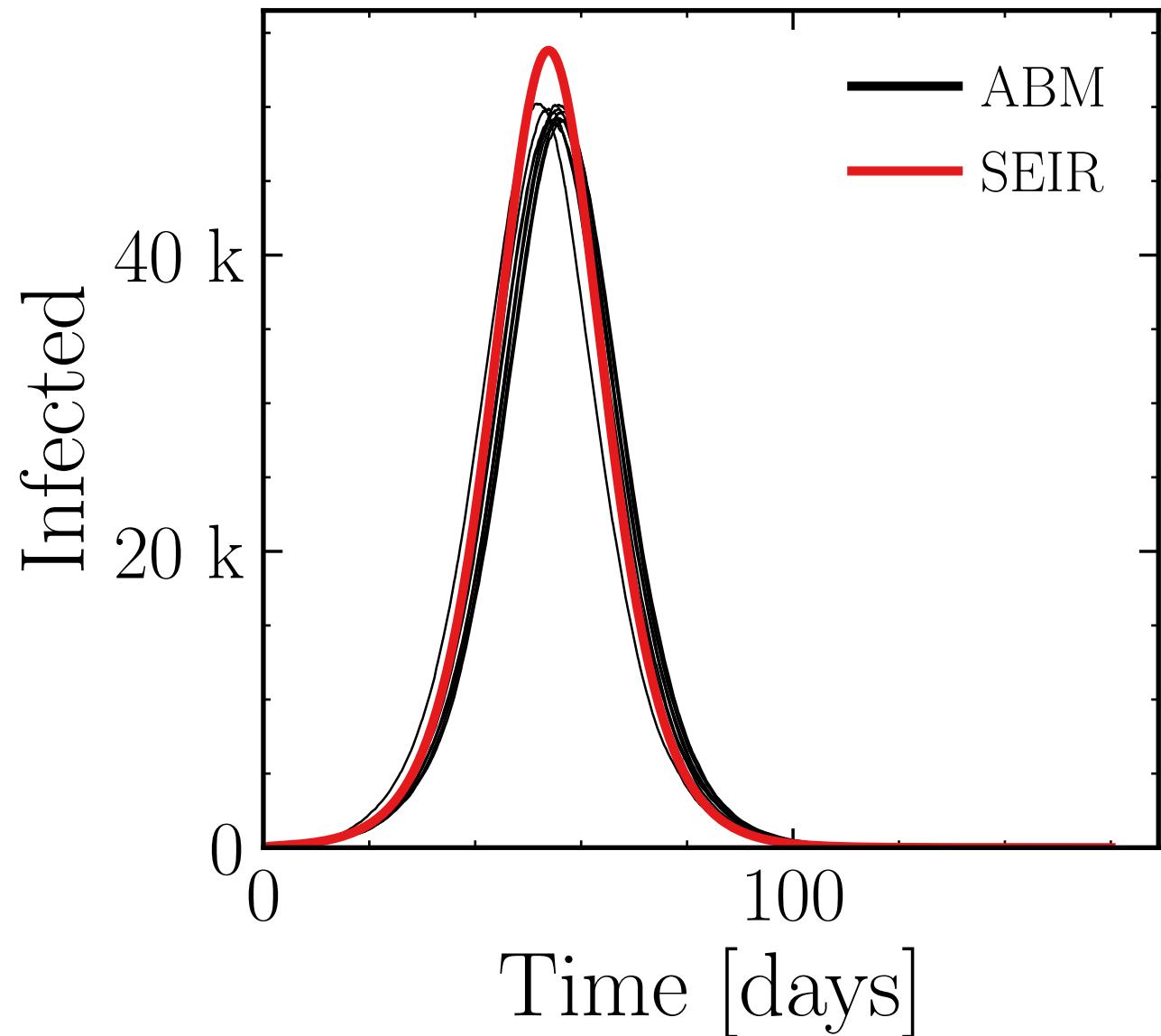
$$R_\infty^{\text{ABM}} = (360 \pm 0.11\%) \cdot 10^3$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 4.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (49.6 \pm 0.28\%) \cdot 10^3$$

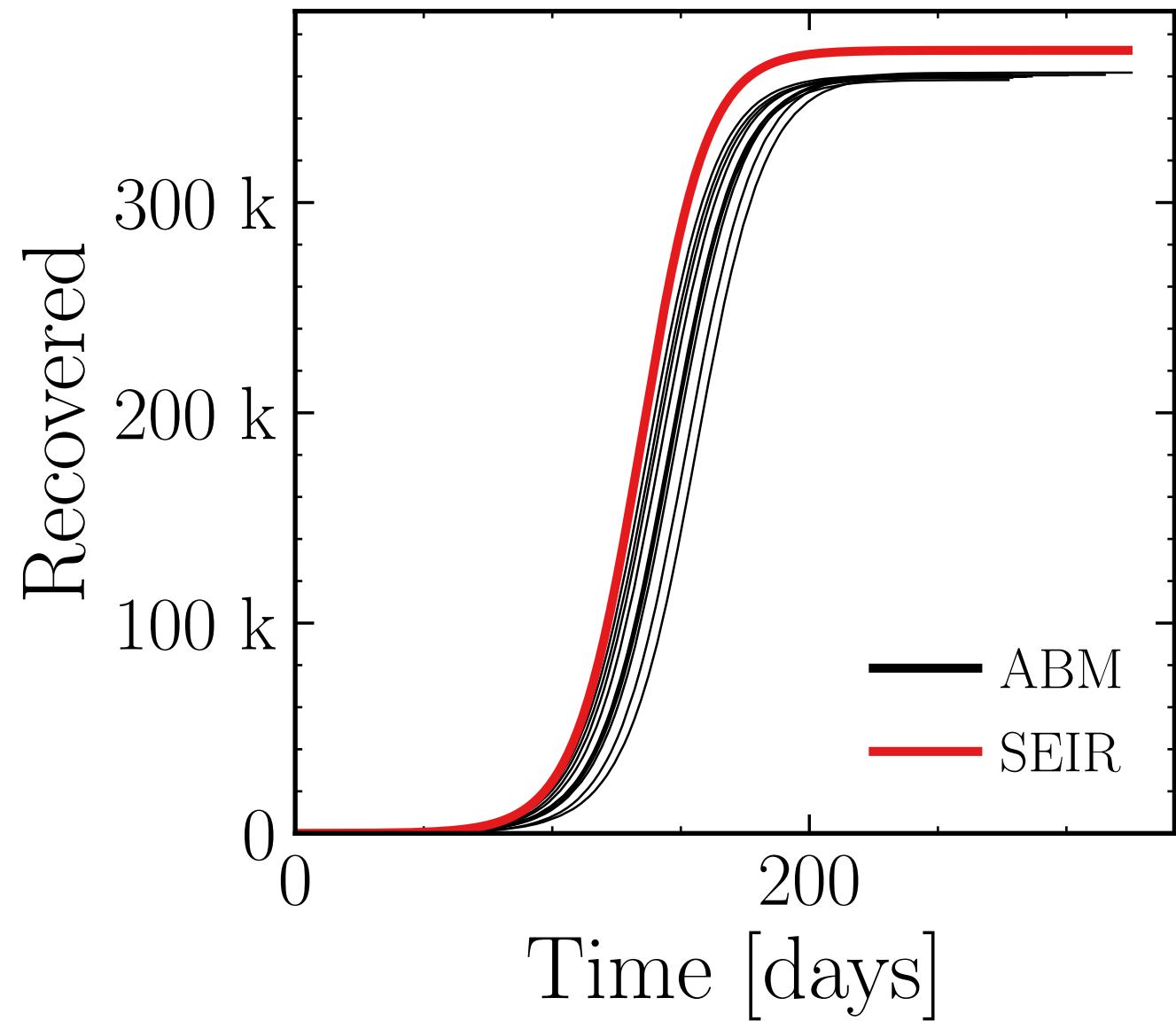
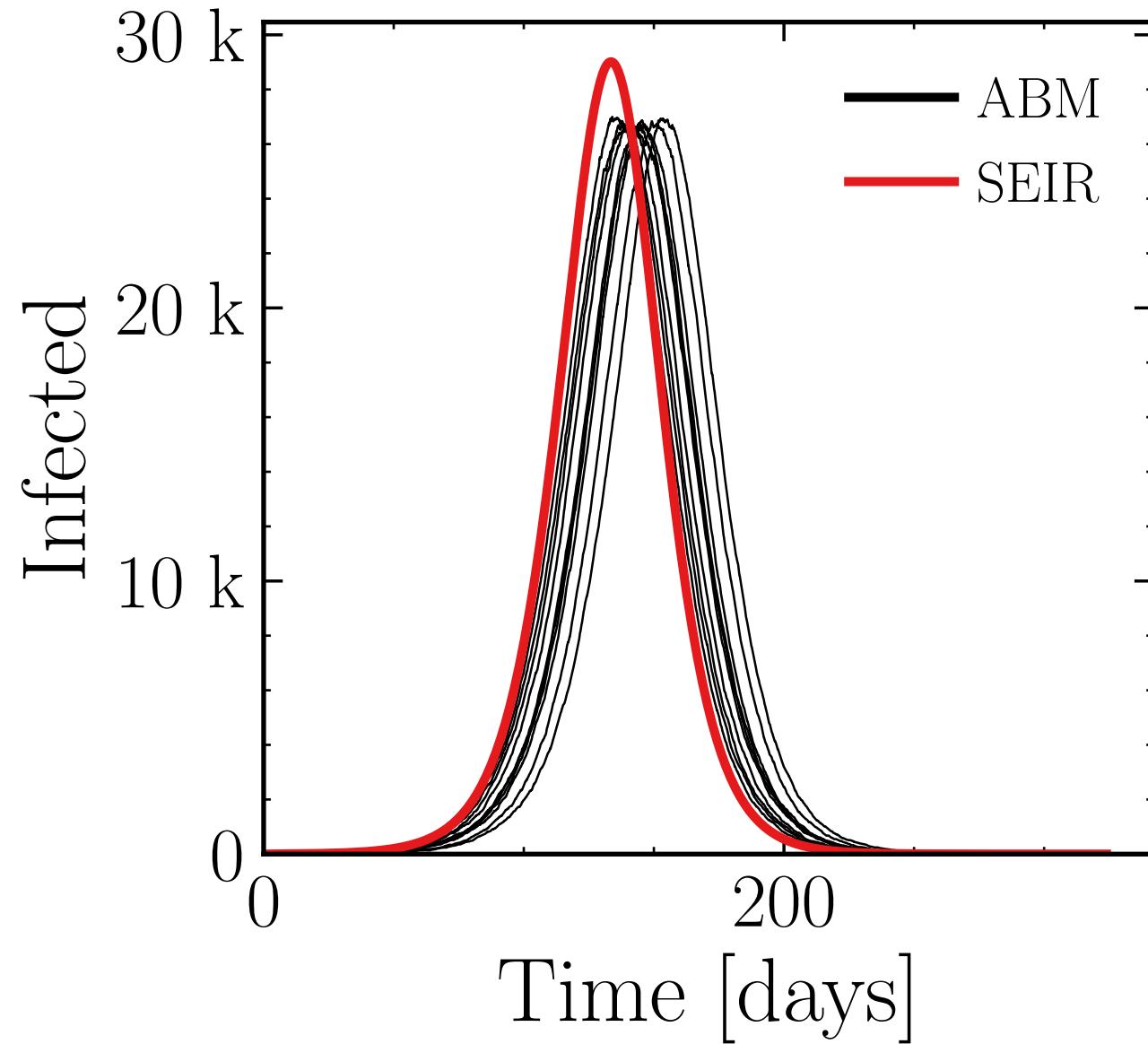
$$R_\infty^{\text{ABM}} = (359.8 \pm 0.068\%) \cdot 10^3$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 10$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (26.74 \pm 0.21\%) \cdot 10^3$$

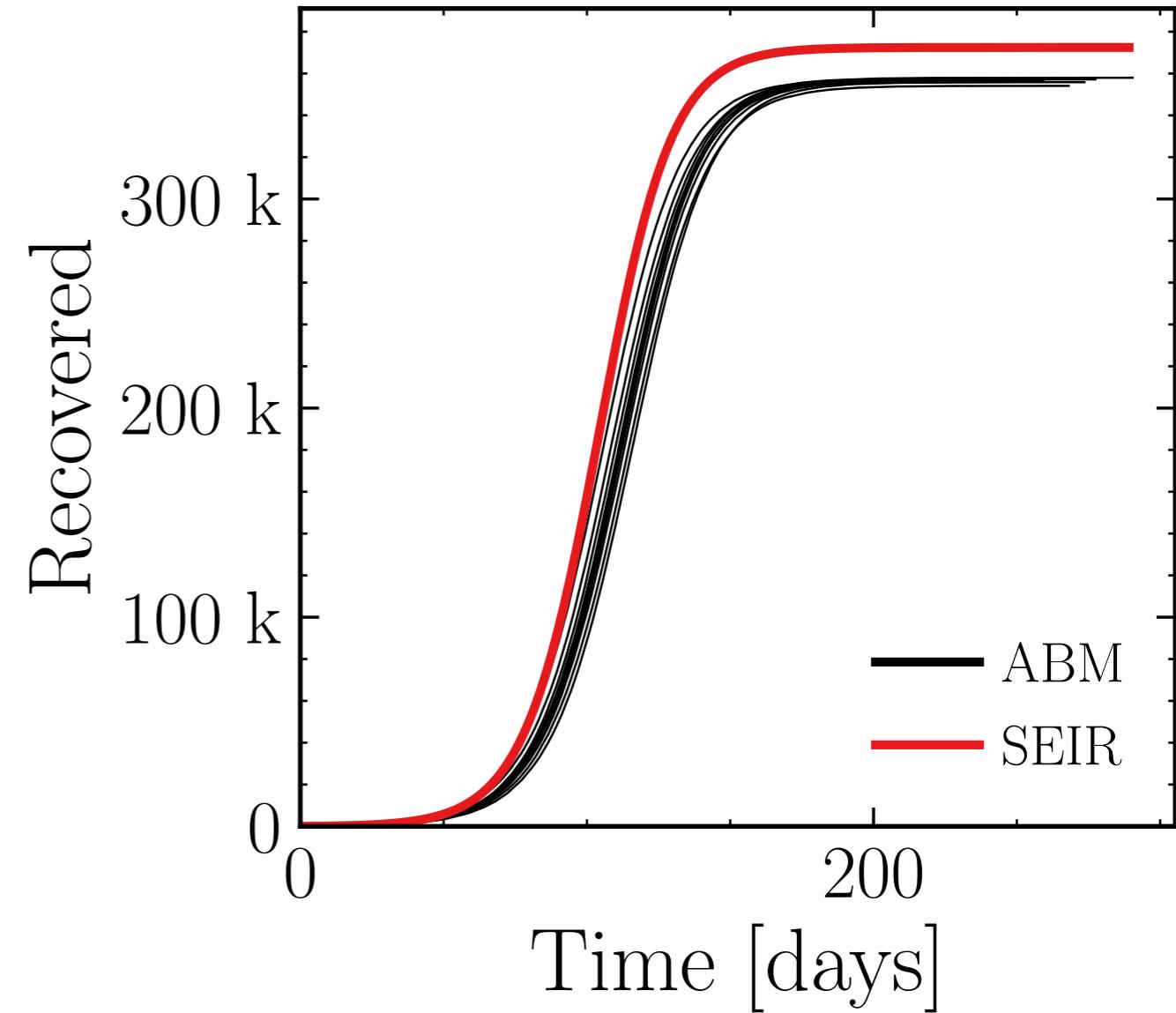
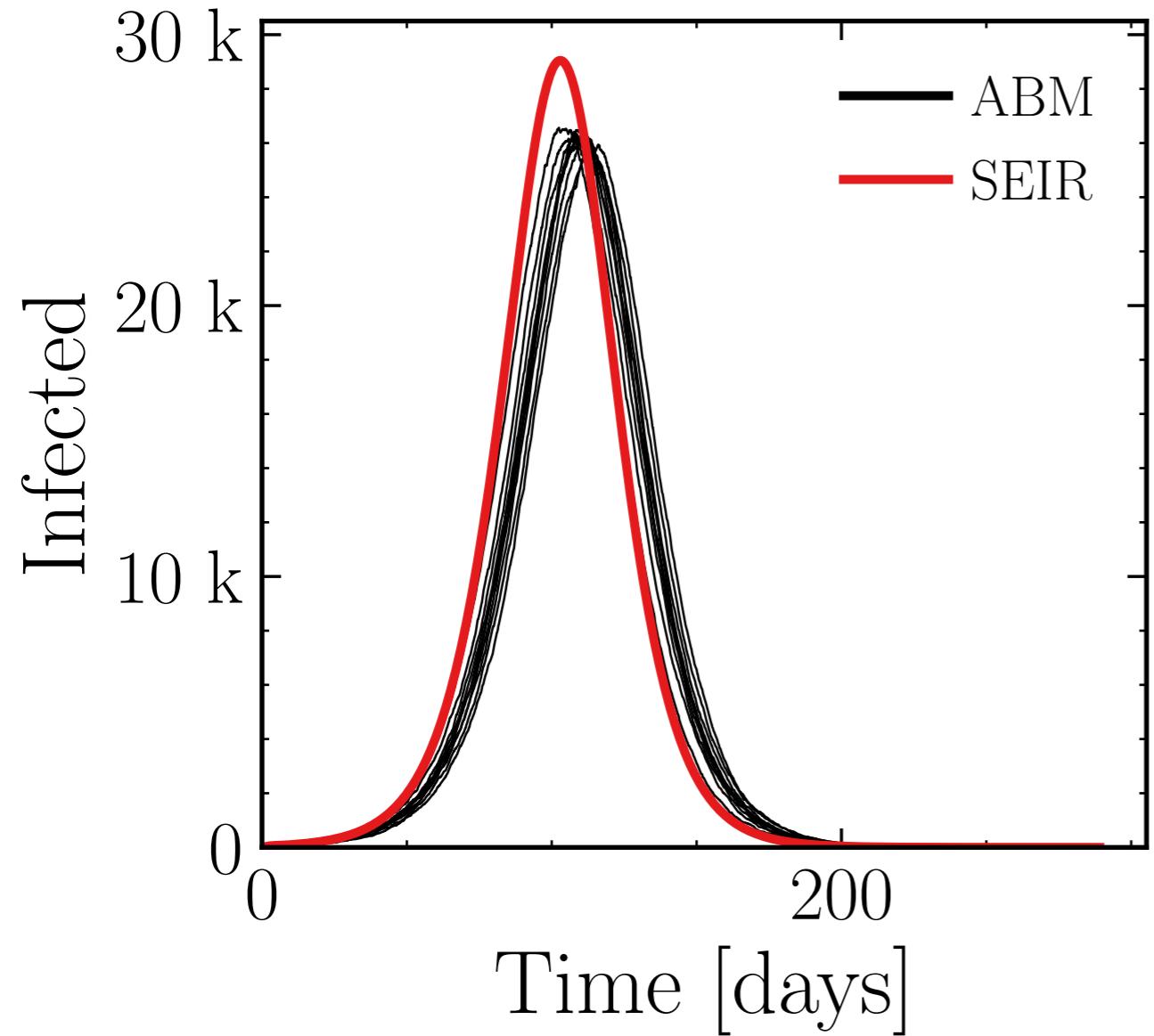
$$R_\infty^{\text{ABM}} = (360.2 \pm 0.079\%) \cdot 10^3$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.25$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (26.21 \pm 0.32\%) \cdot 10^3$$

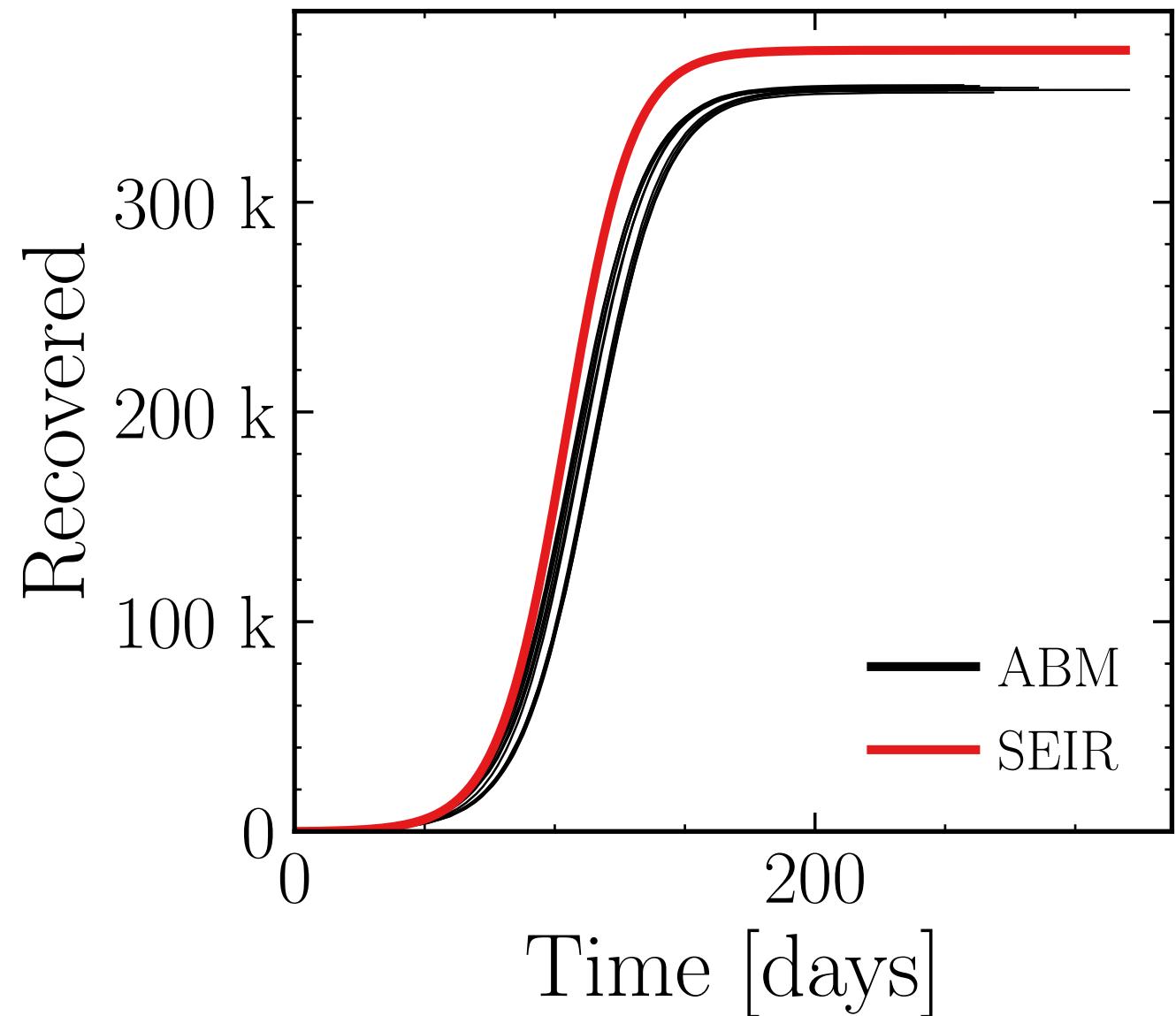
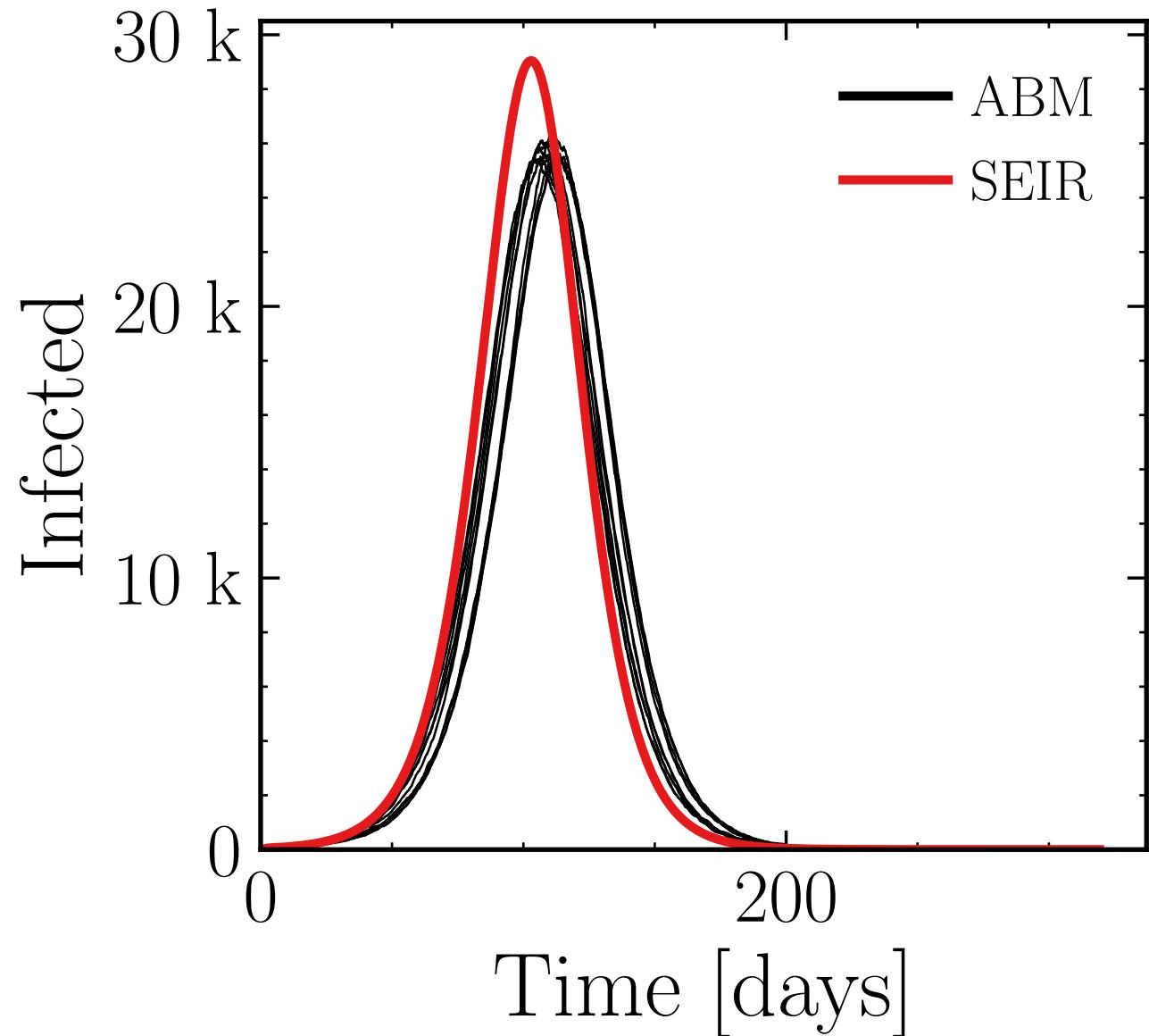
$$R_\infty^{\text{ABM}} = (356.8 \pm 0.096\%) \cdot 10^3$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.5$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (25.72 \pm 0.36\%) \cdot 10^3$$

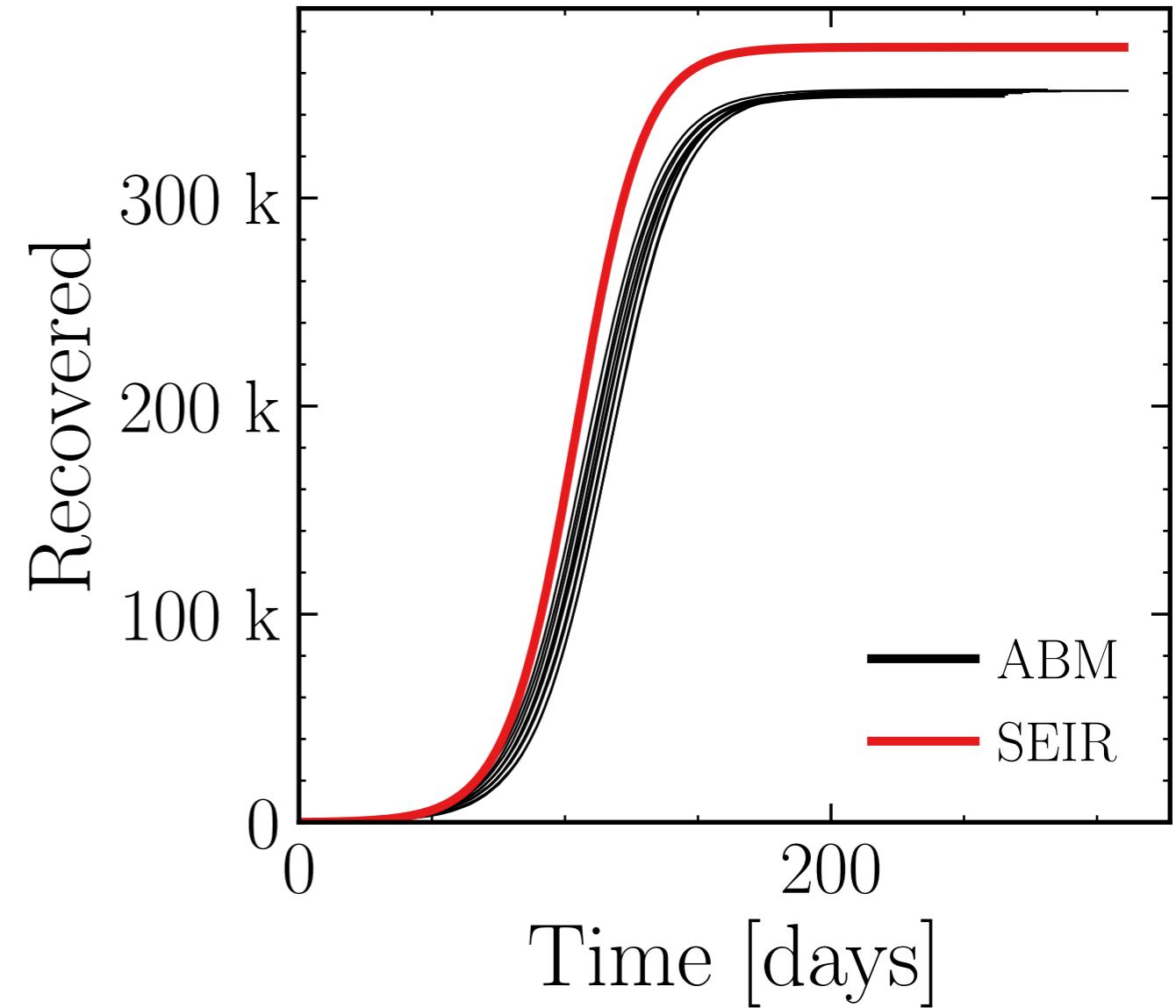
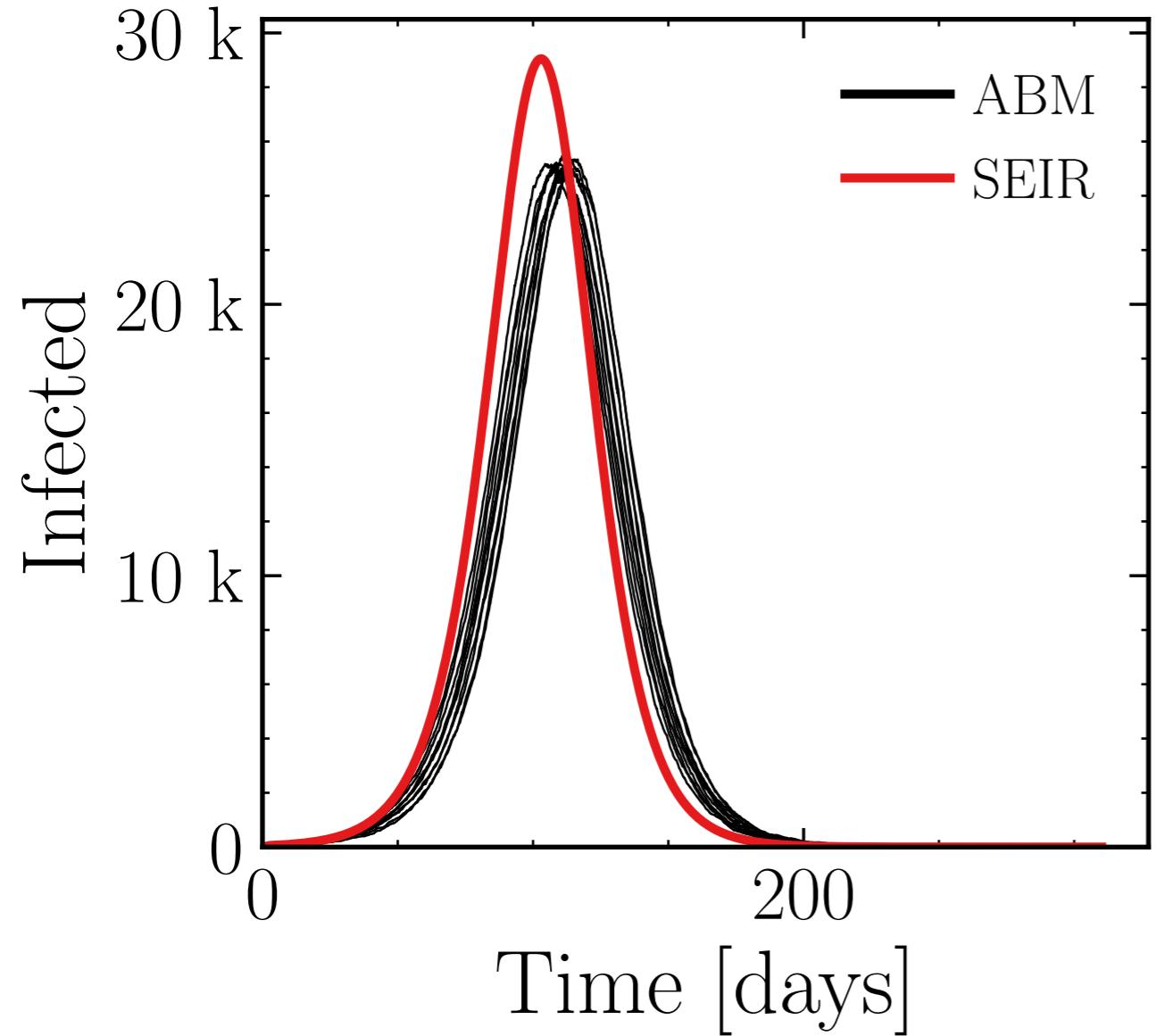
$$R_\infty^{\text{ABM}} = (354.2 \pm 0.085\%) \cdot 10^3$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.75$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (25.1 \pm 0.29\%) \cdot 10^3$$

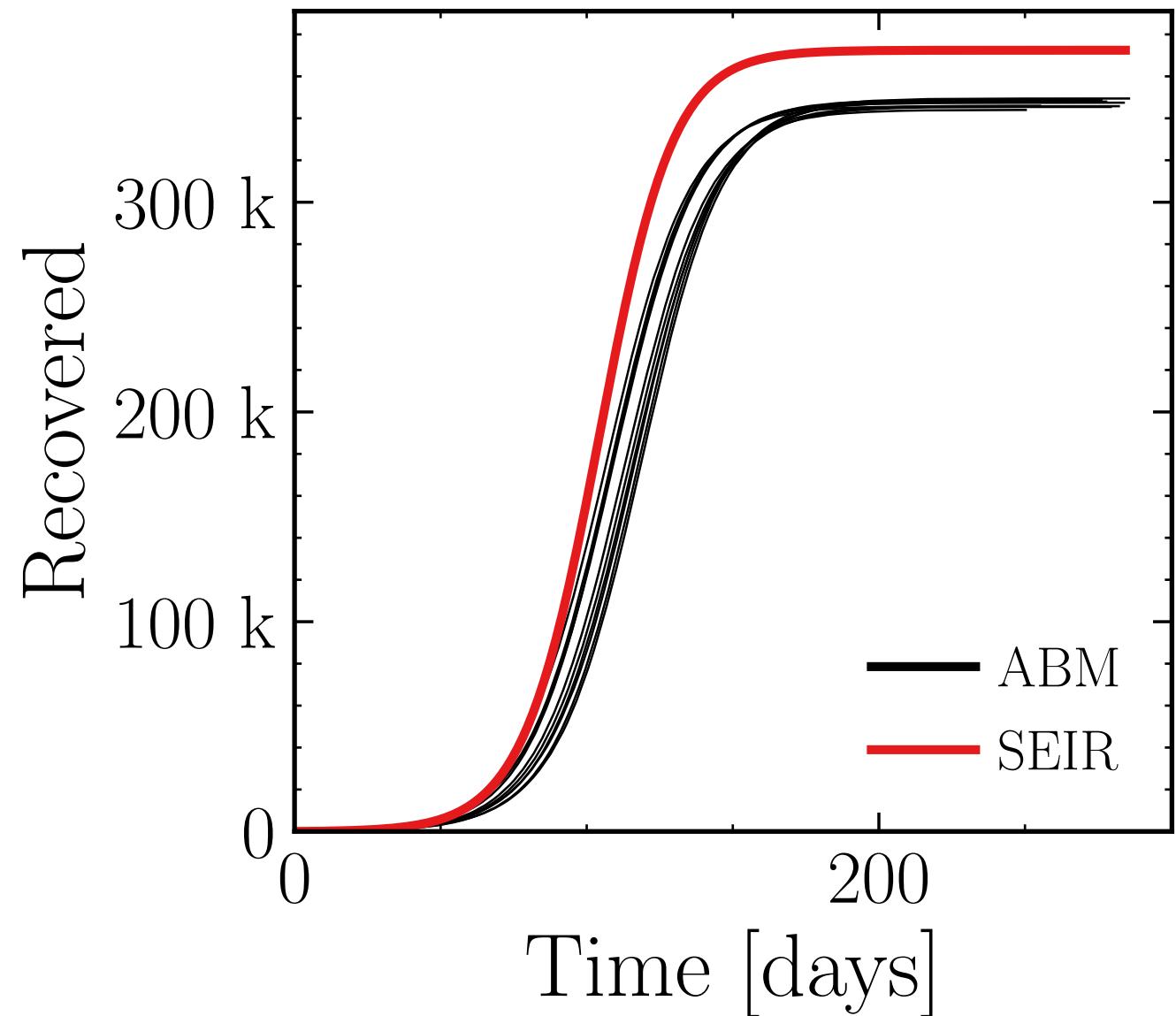
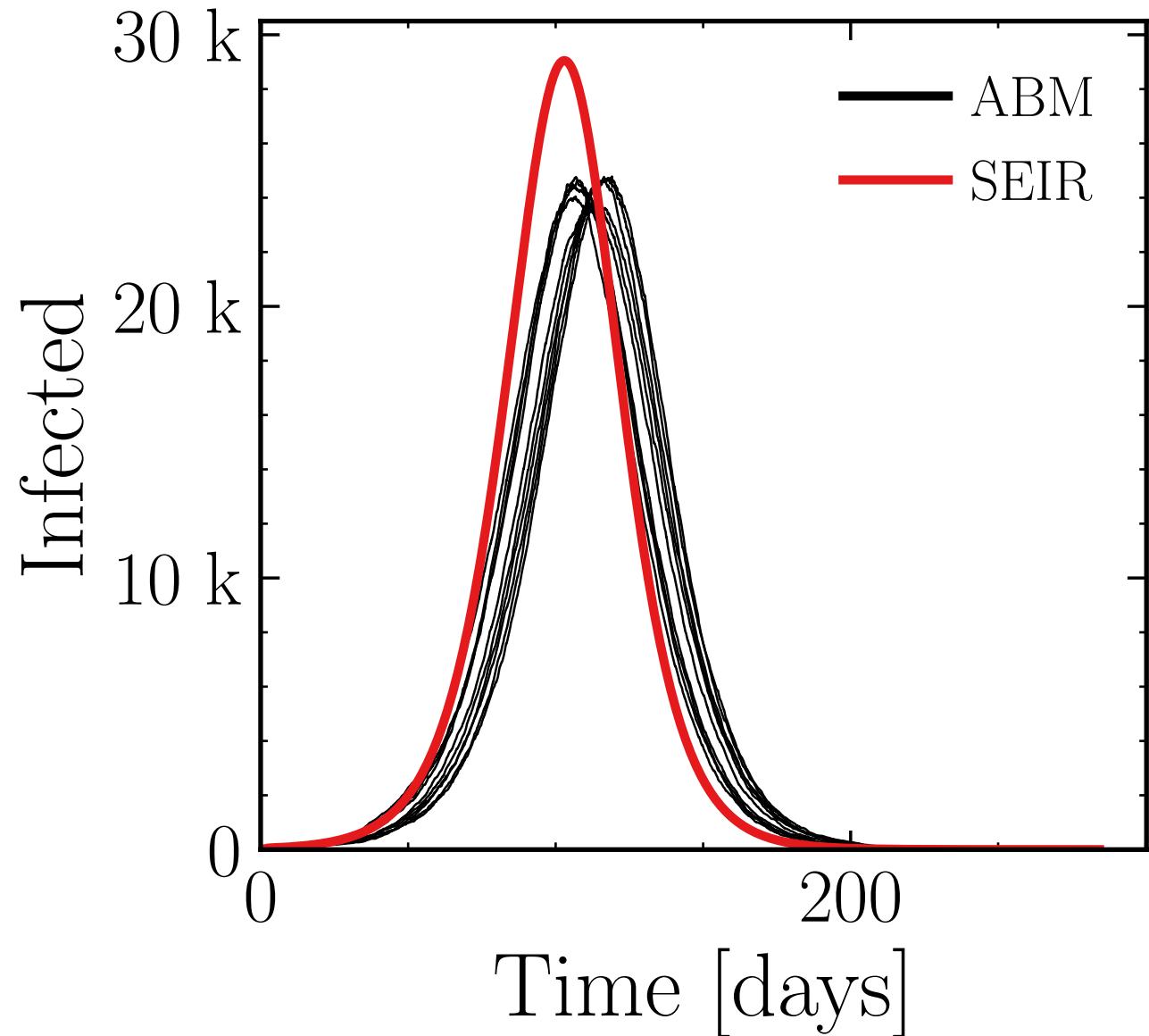
$$R_\infty^{\text{ABM}} = (350.7 \pm 0.085\%) \cdot 10^3$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 1.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

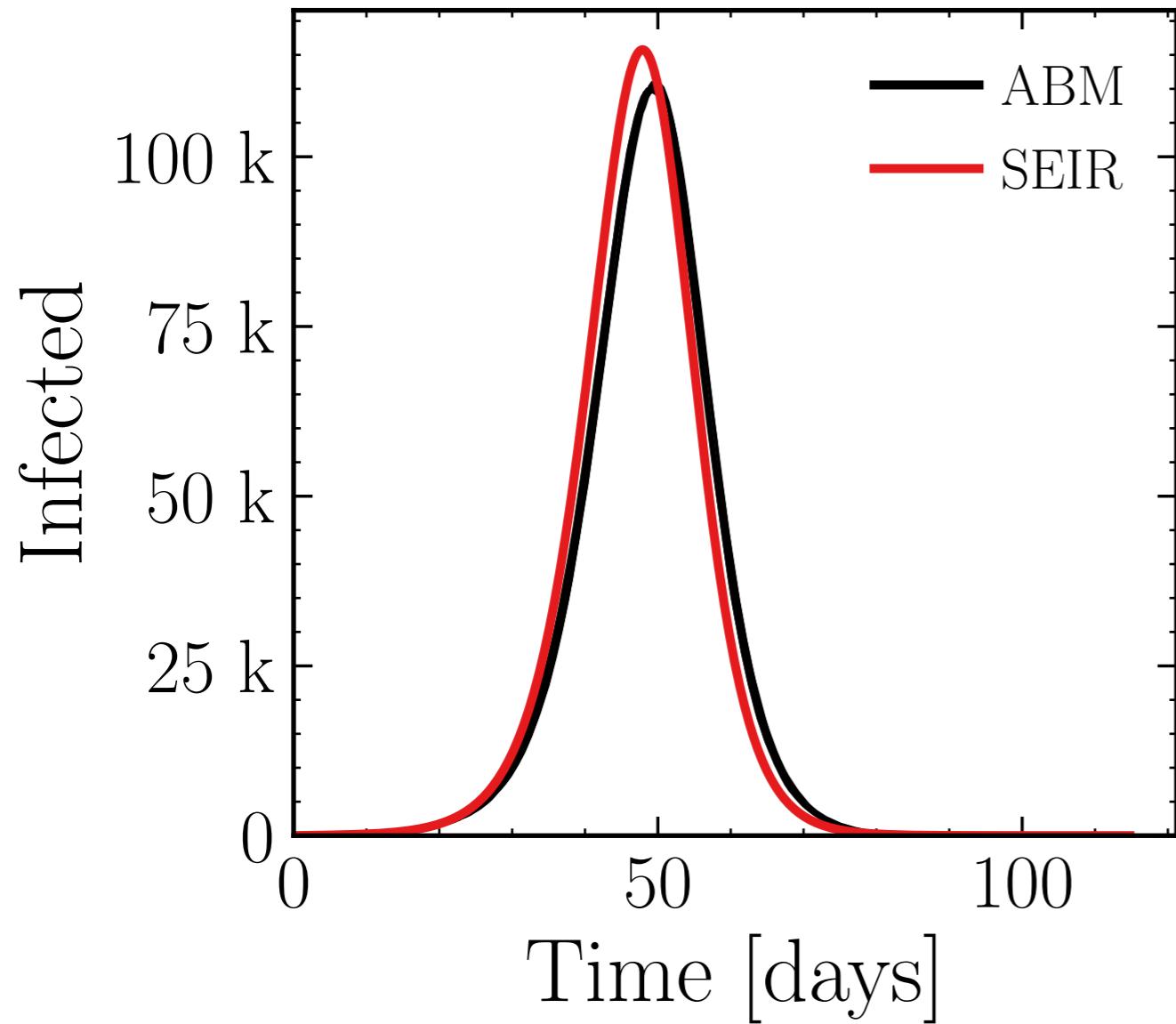
$$I_{\max}^{\text{ABM}} = (24.3 \pm 0.58\%) \cdot 10^3$$

$$R_{\infty}^{\text{ABM}} = (347.1 \pm 0.15\%) \cdot 10^3$$

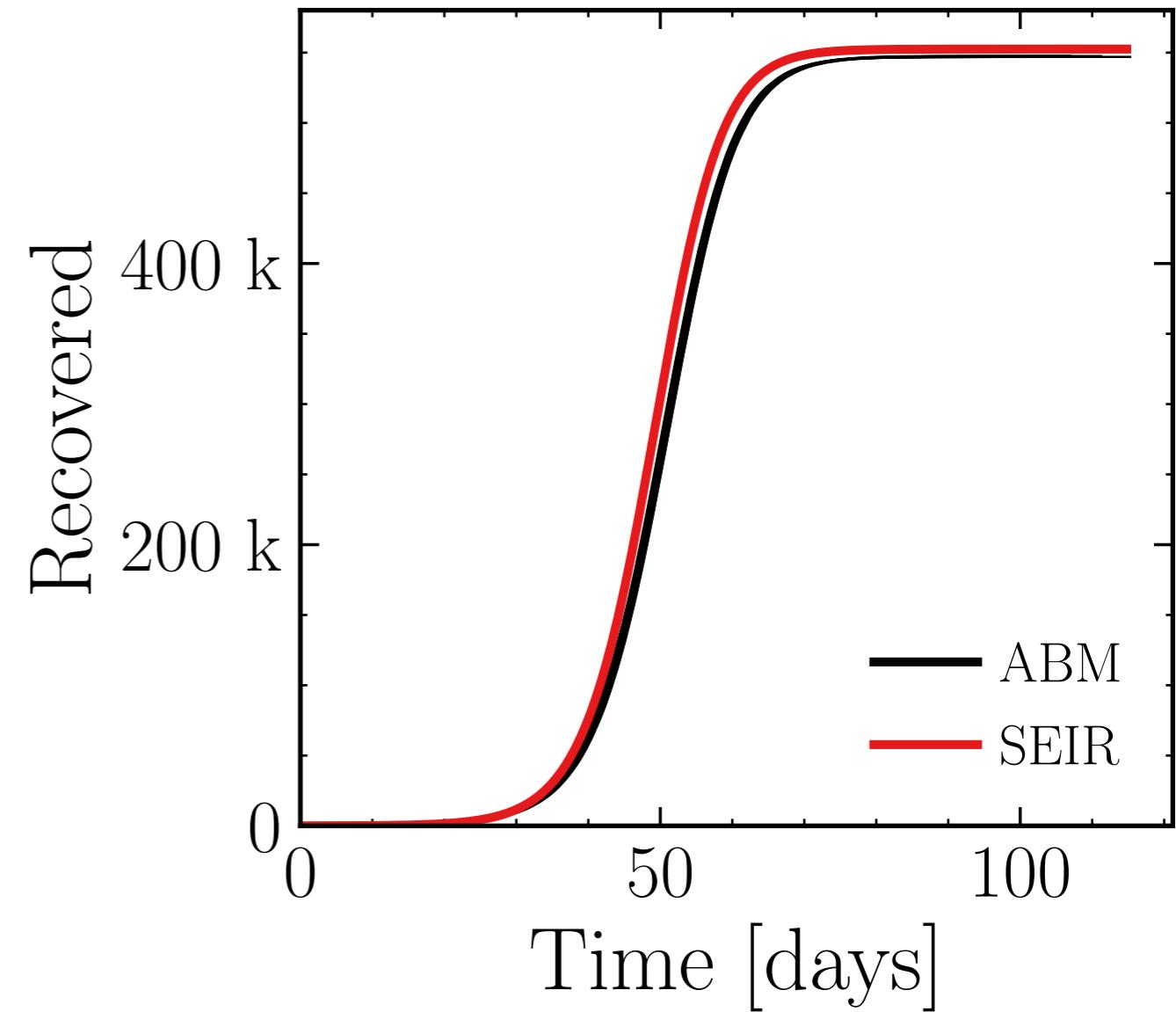


$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.02$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

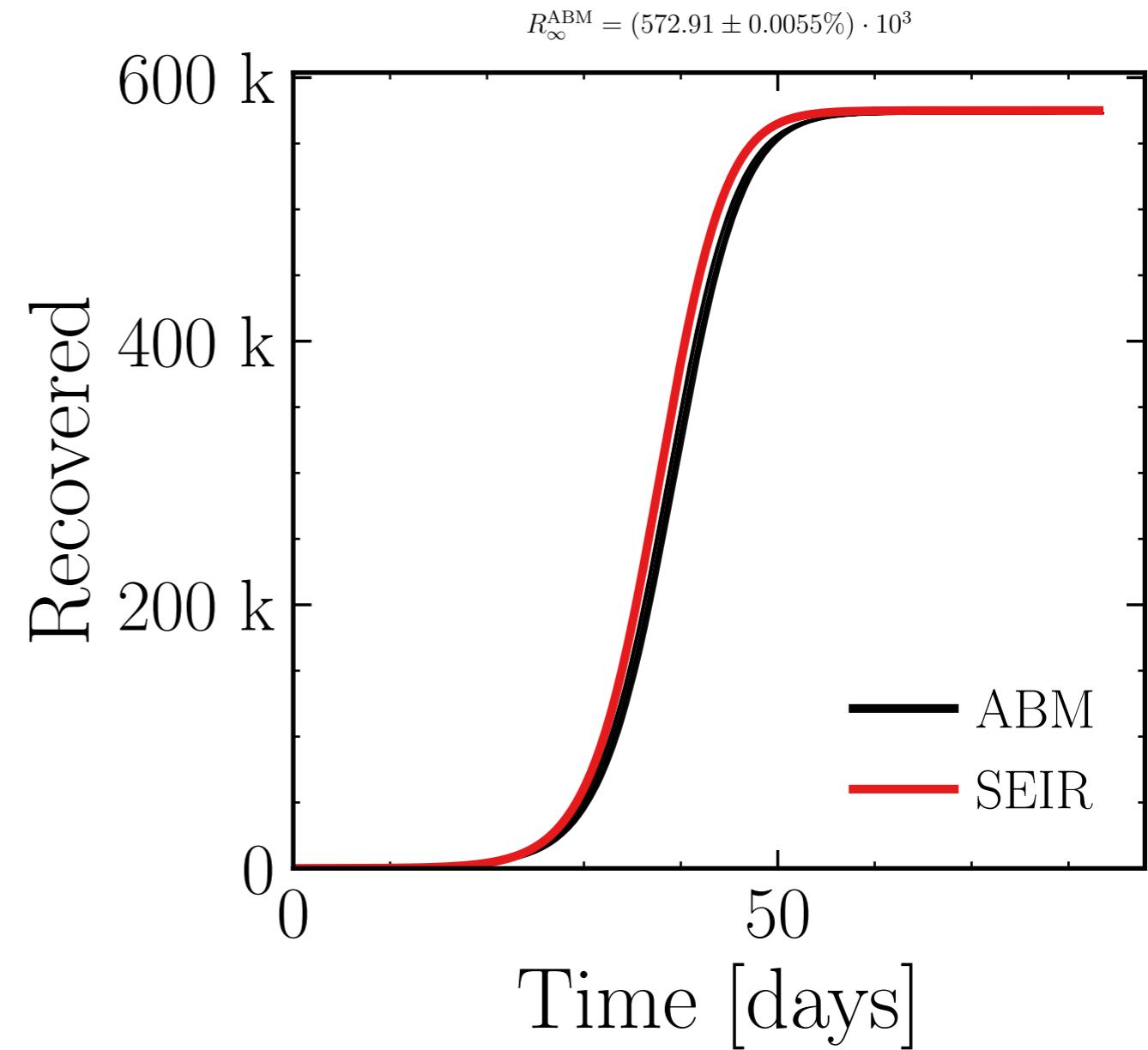
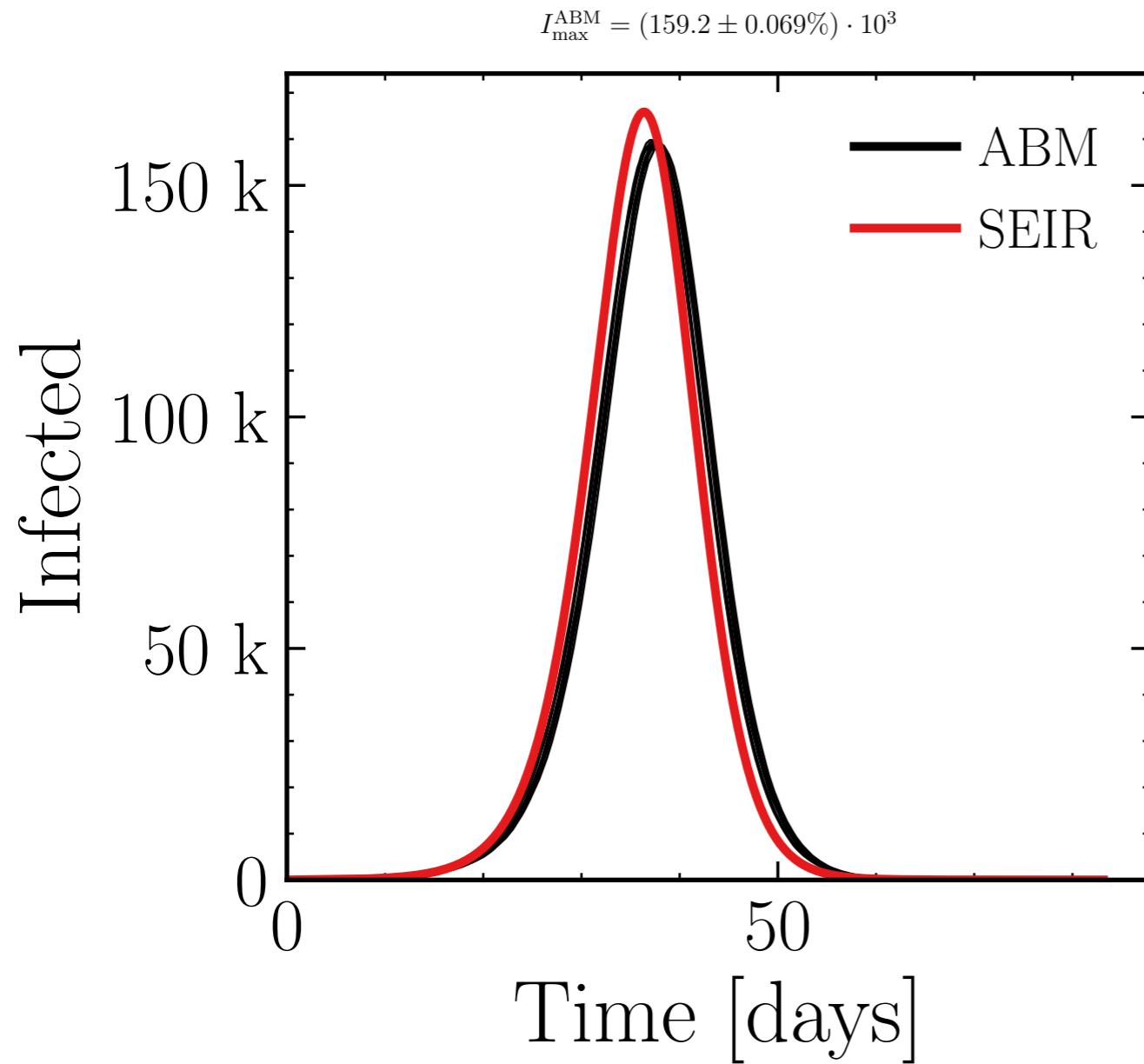
$$I_{\max}^{\text{ABM}} = (110.5 \pm 0.13\%) \cdot 10^3$$



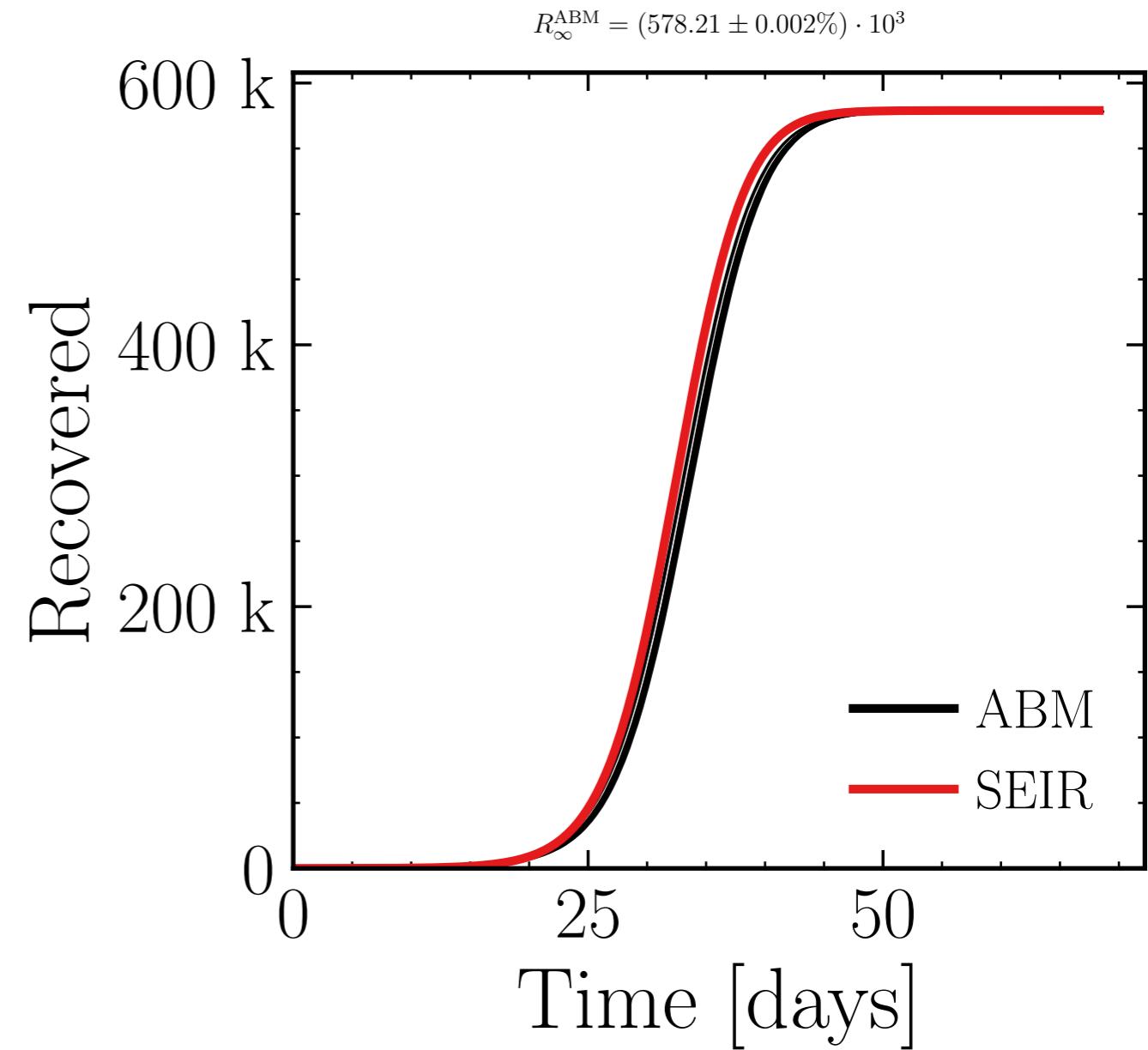
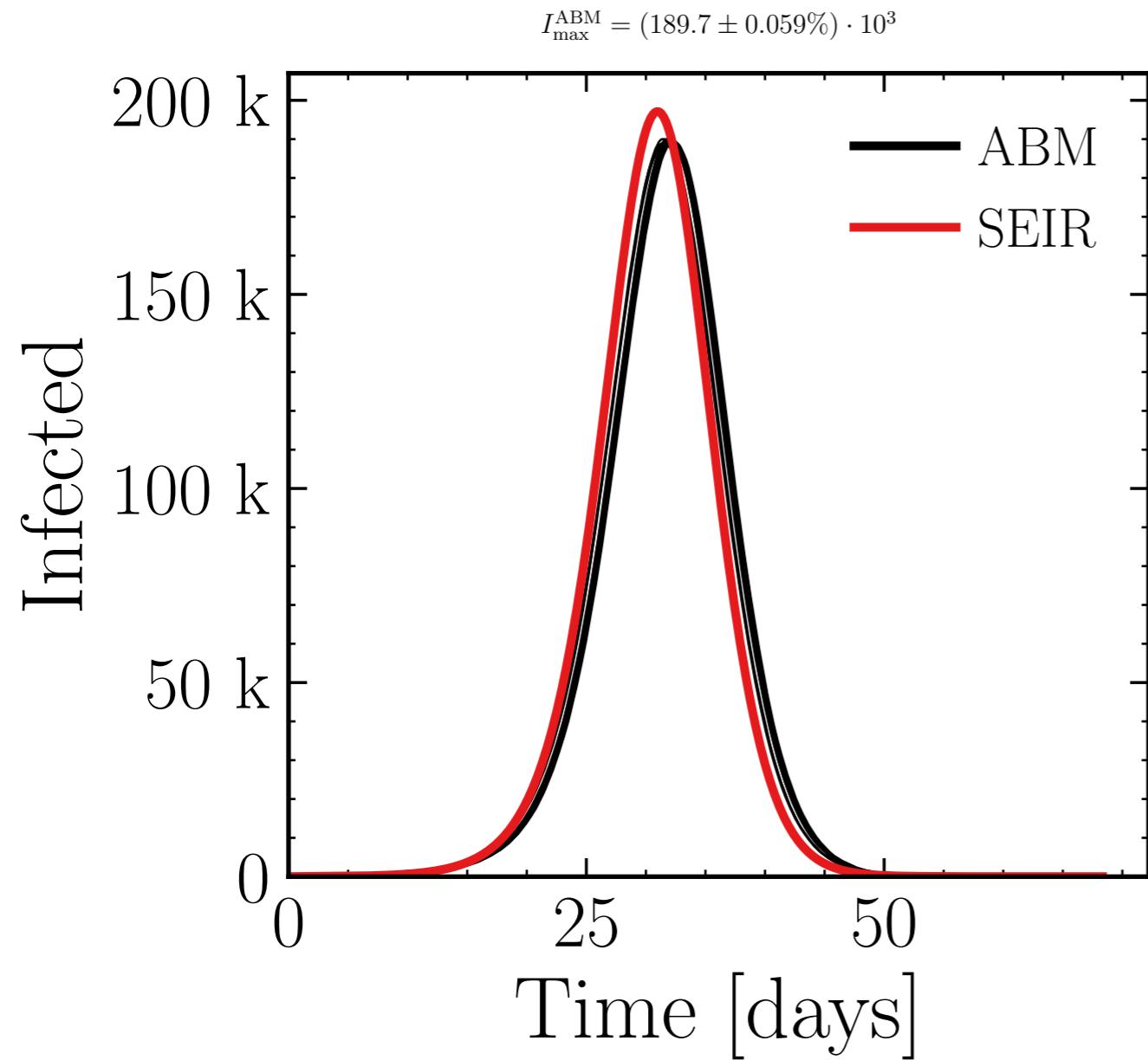
$$R_\infty^{\text{ABM}} = (547.24 \pm 0.013\%) \cdot 10^3$$



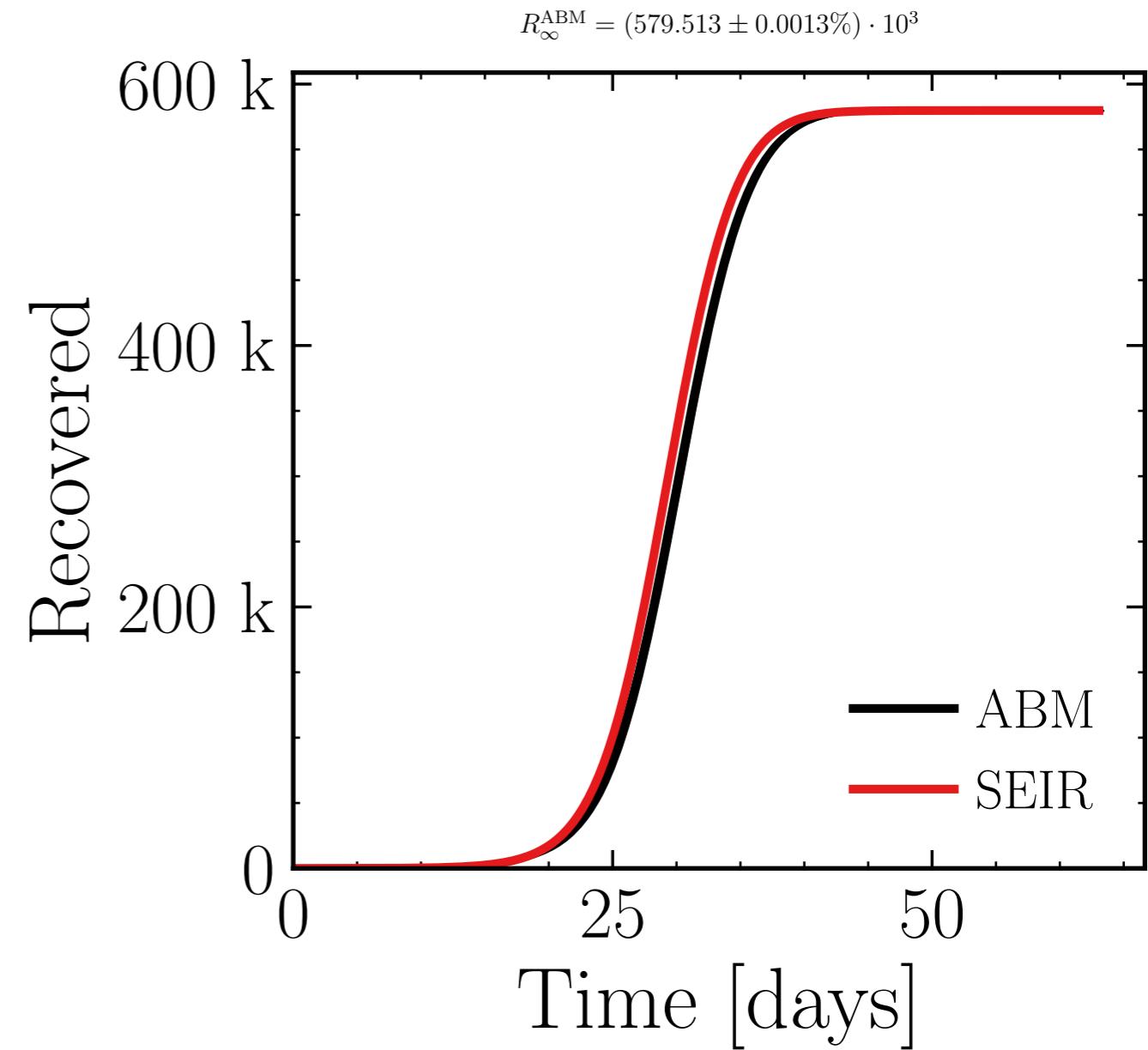
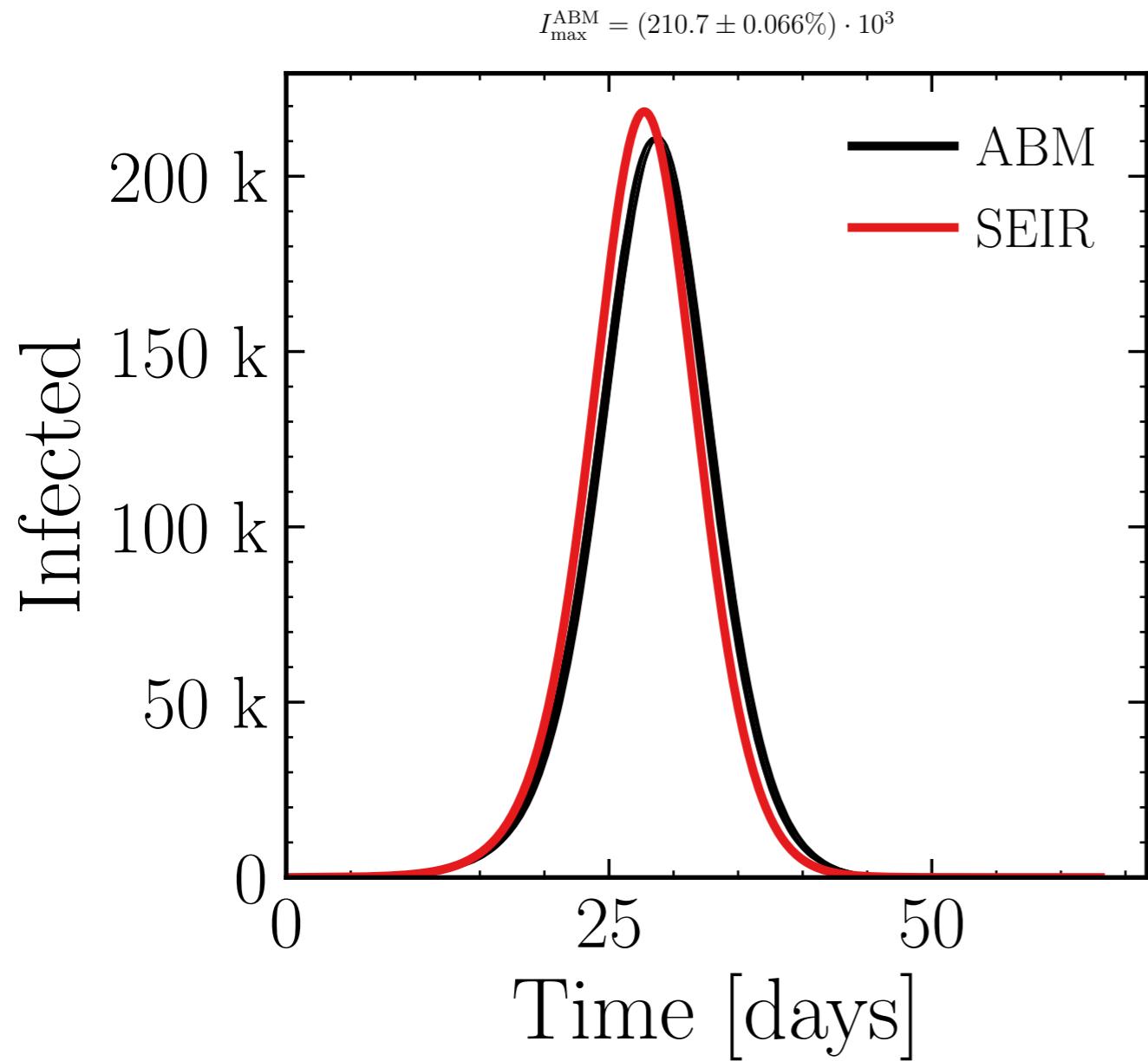
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.03$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10



$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.04$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10



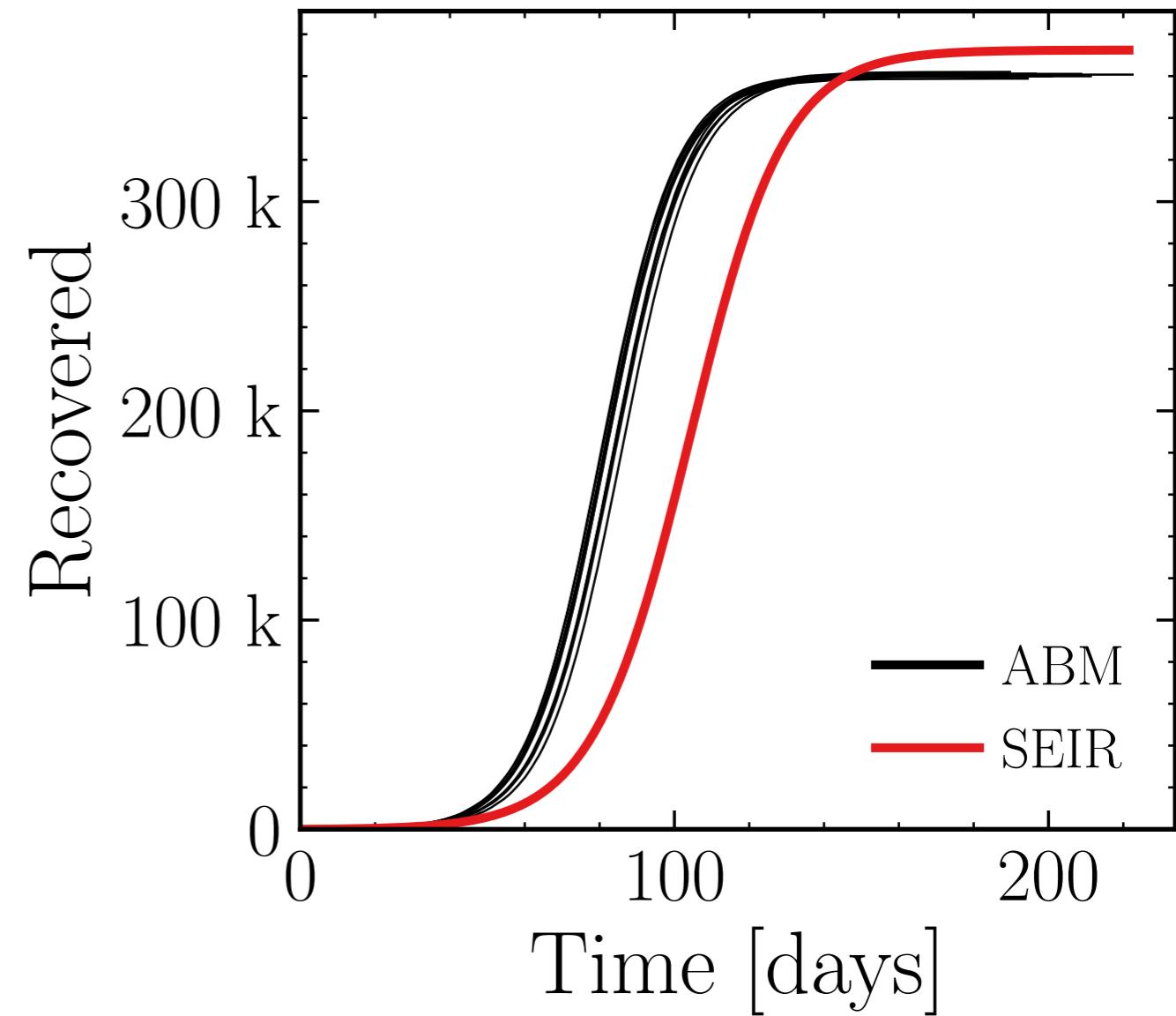
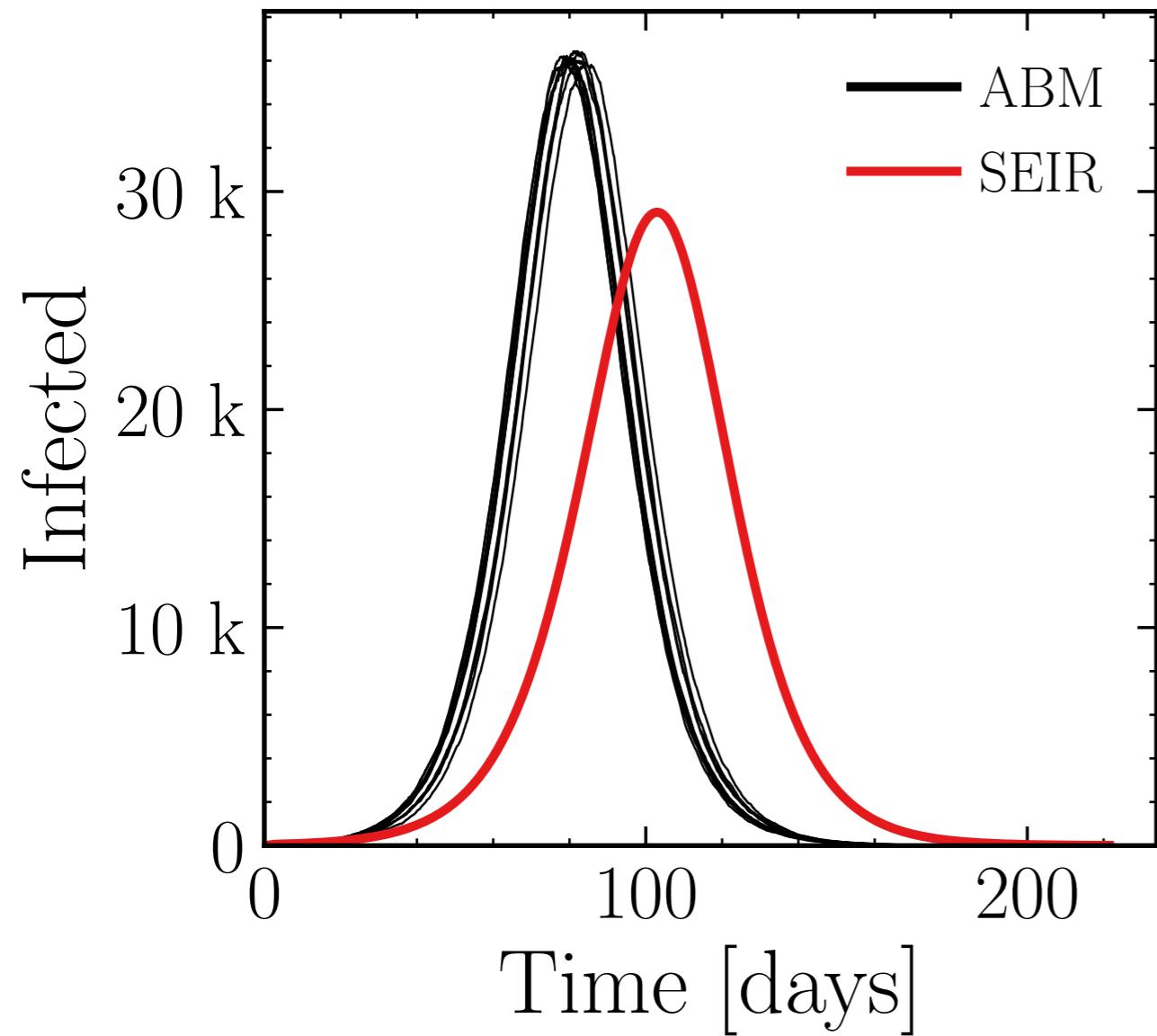
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.05$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10



$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.25$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

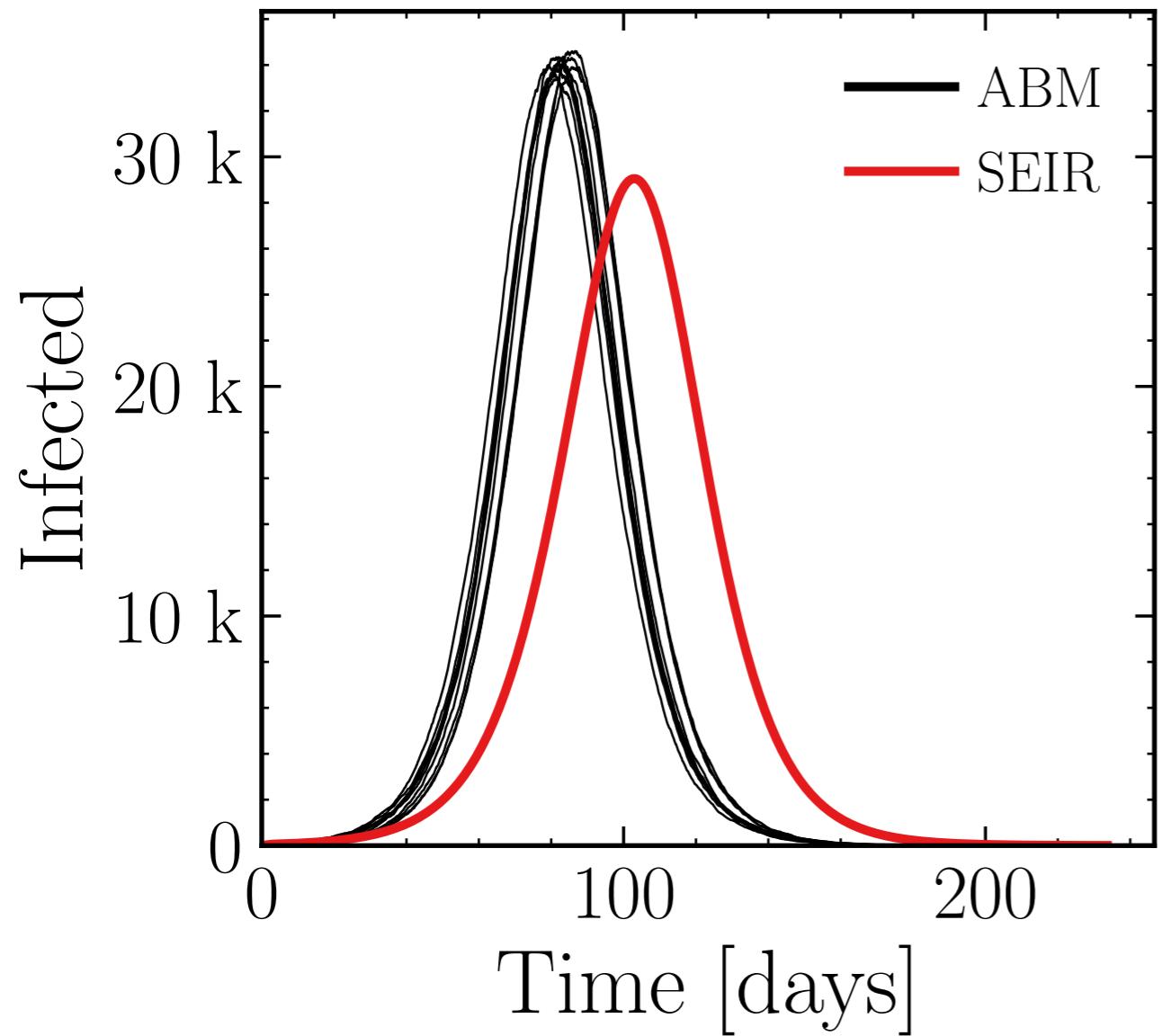
$$I_{\max}^{\text{ABM}} = (36.12 \pm 0.17\%) \cdot 10^3$$

$$R_\infty^{\text{ABM}} = (360.5 \pm 0.073\%) \cdot 10^3$$

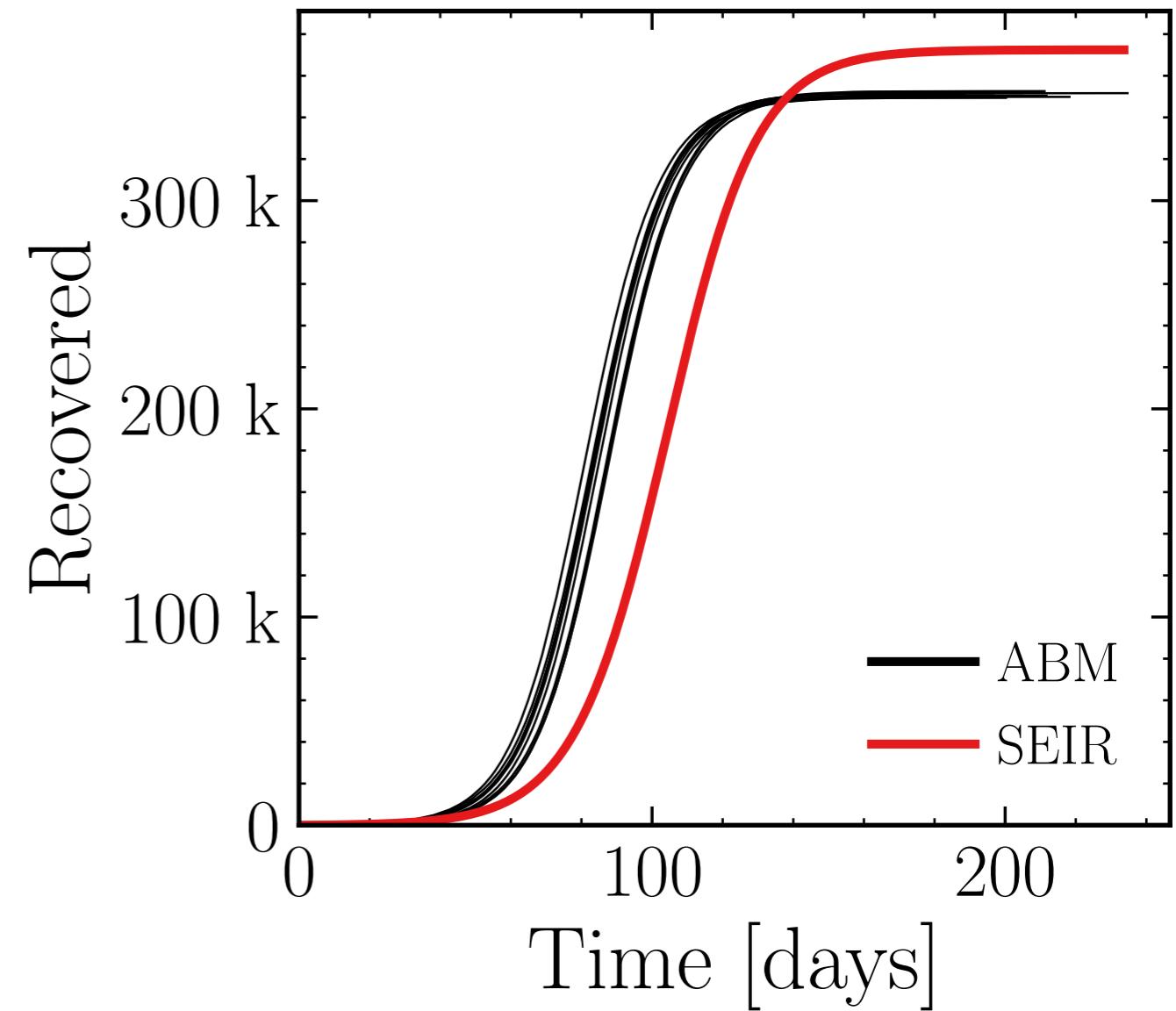


$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.25$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 1.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (34.1 \pm 0.3\%) \cdot 10^3$$



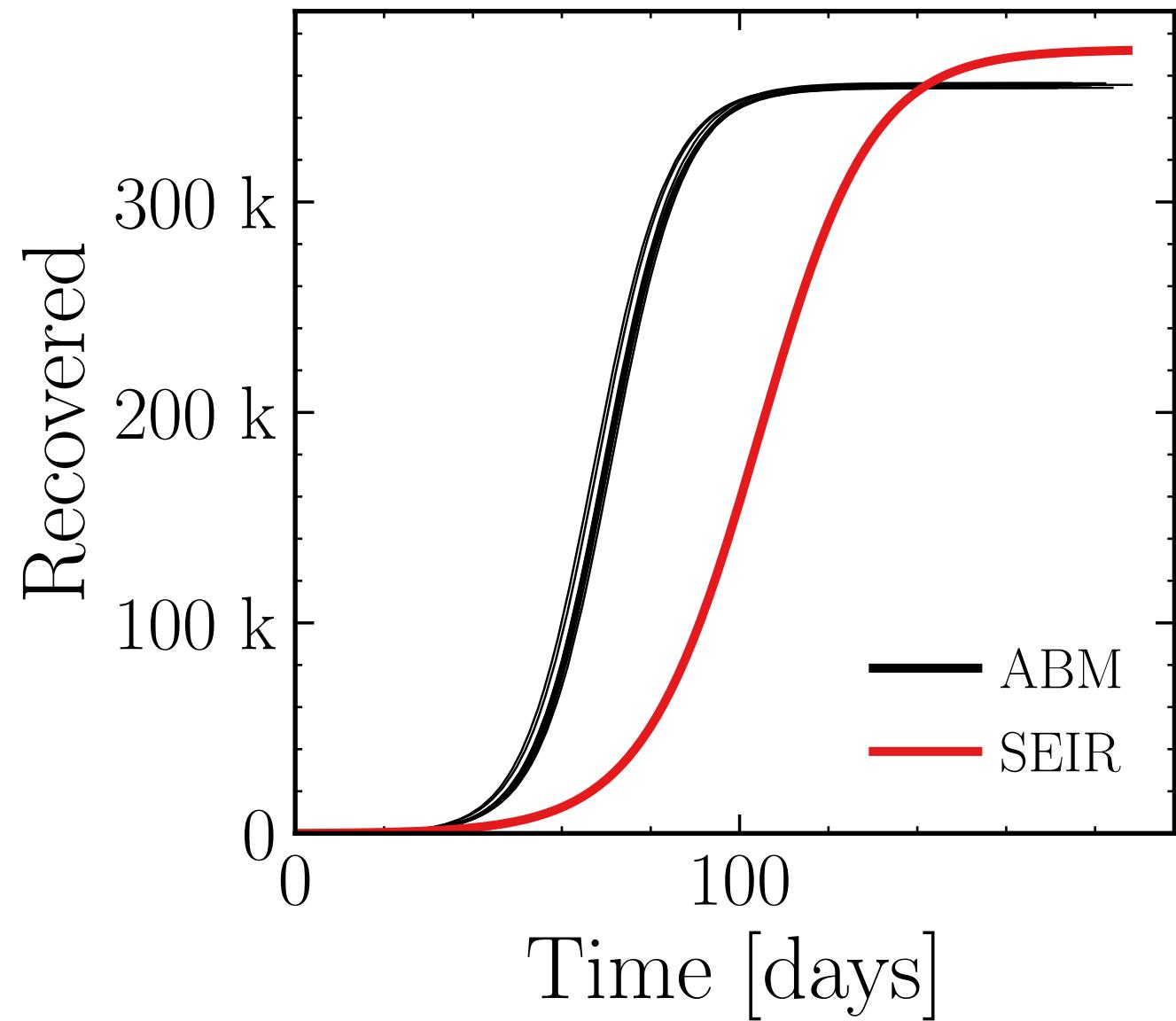
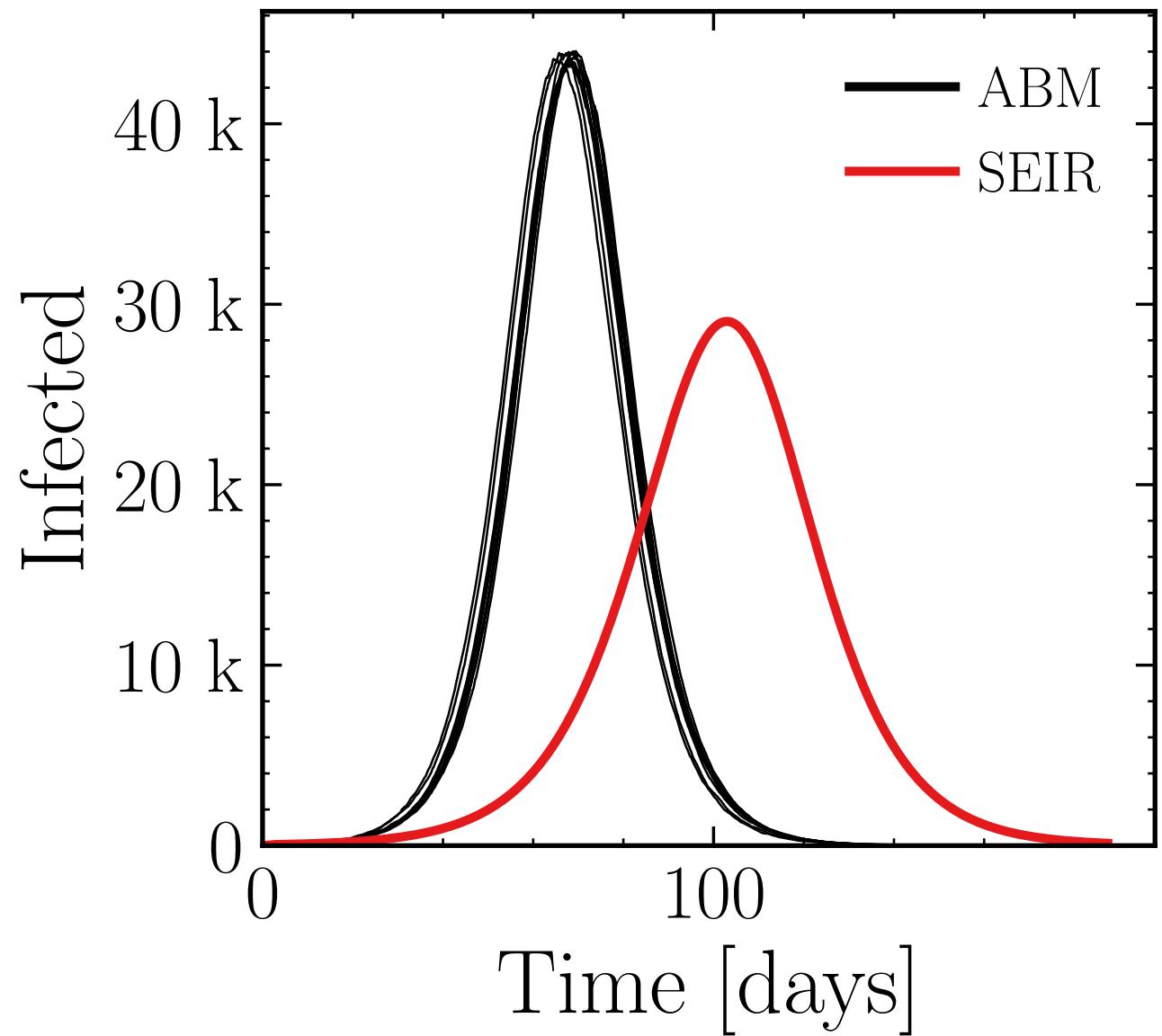
$$R_{\infty}^{\text{ABM}} = (351.1 \pm 0.09\%) \cdot 10^3$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.5$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (43.67 \pm 0.21\%) \cdot 10^3$$

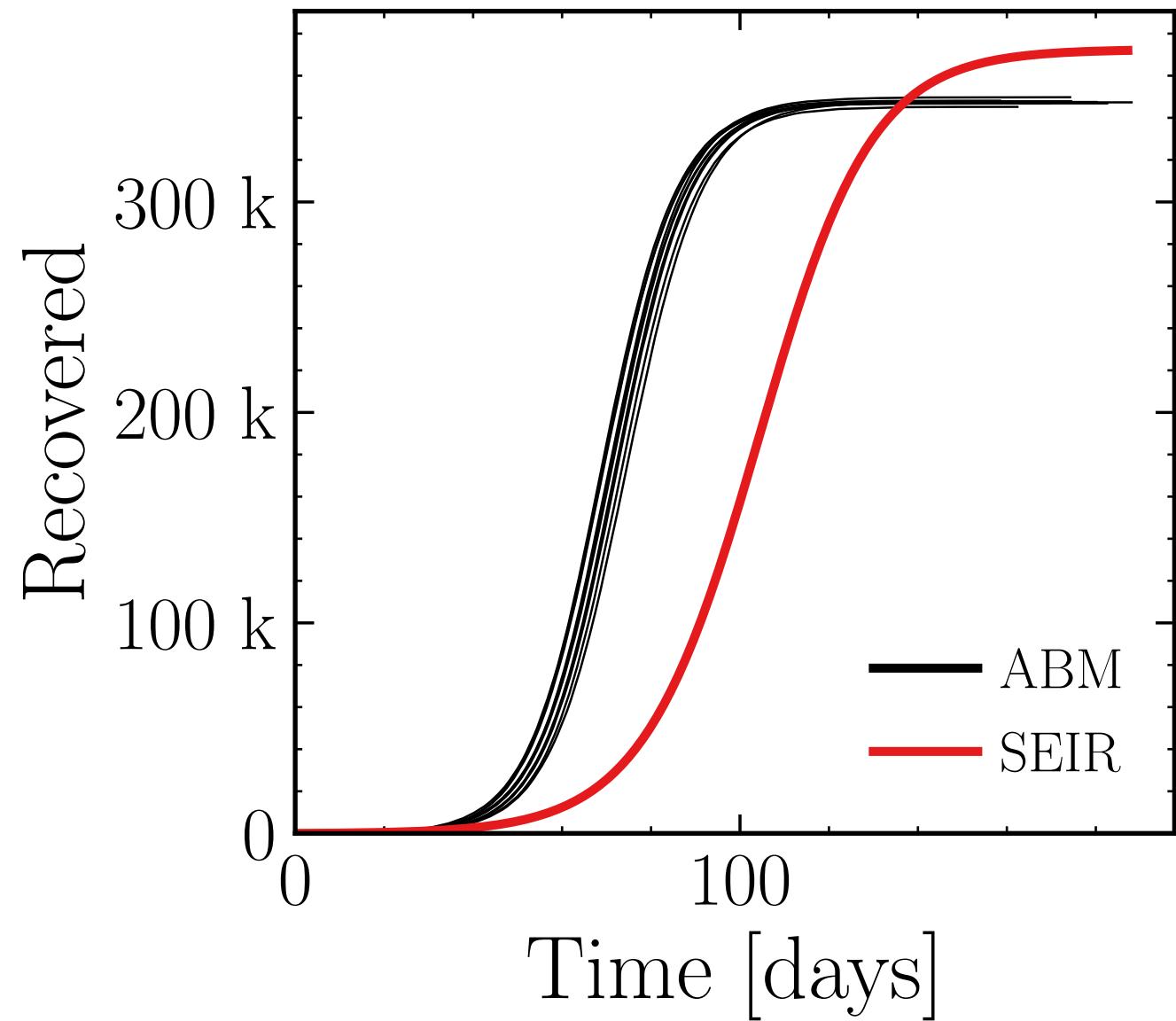
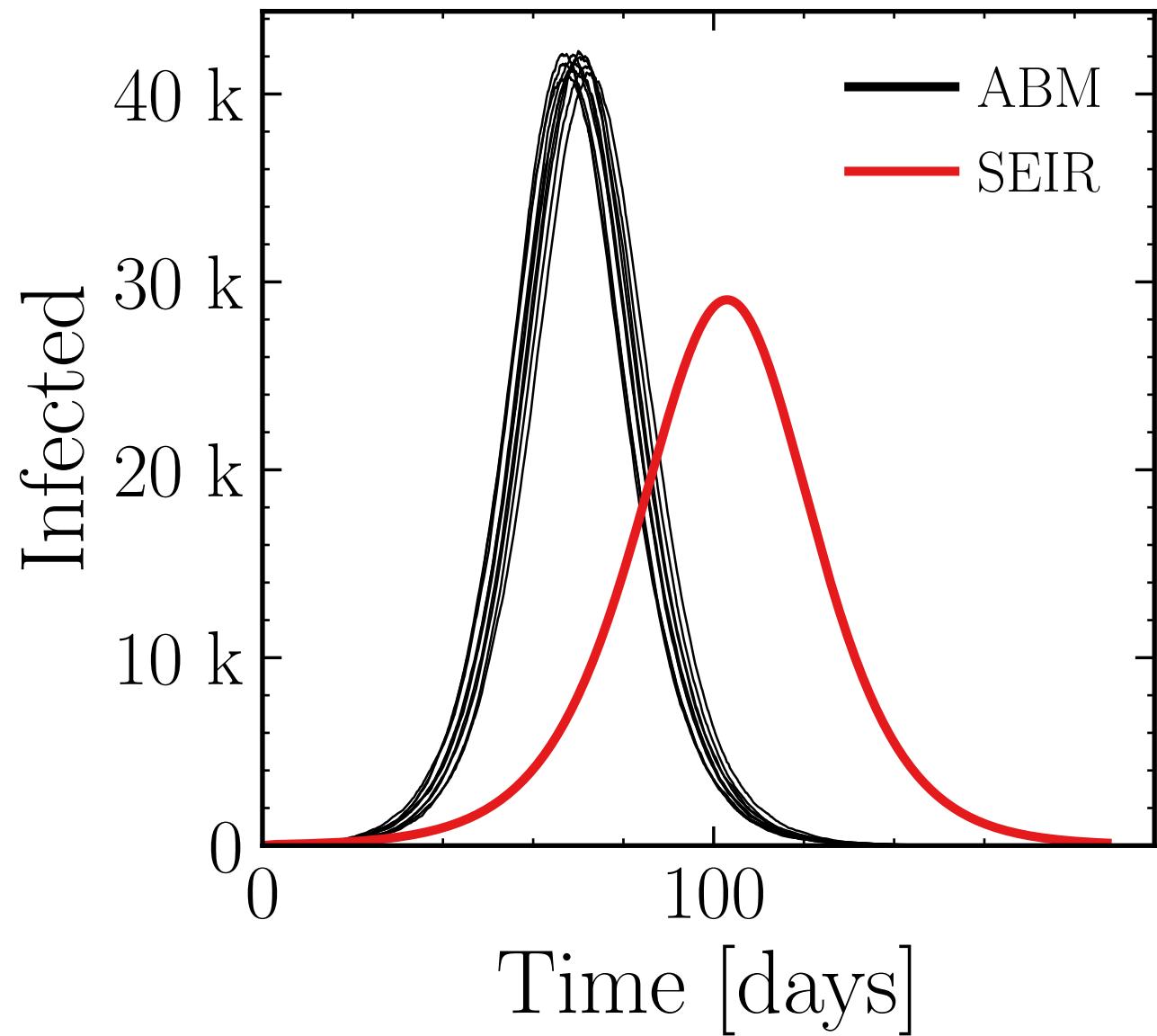
$$R_\infty^{\text{ABM}} = (355.2 \pm 0.07\%) \cdot 10^3$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.5$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 1.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (41.7 \pm 0.33\%) \cdot 10^3$$

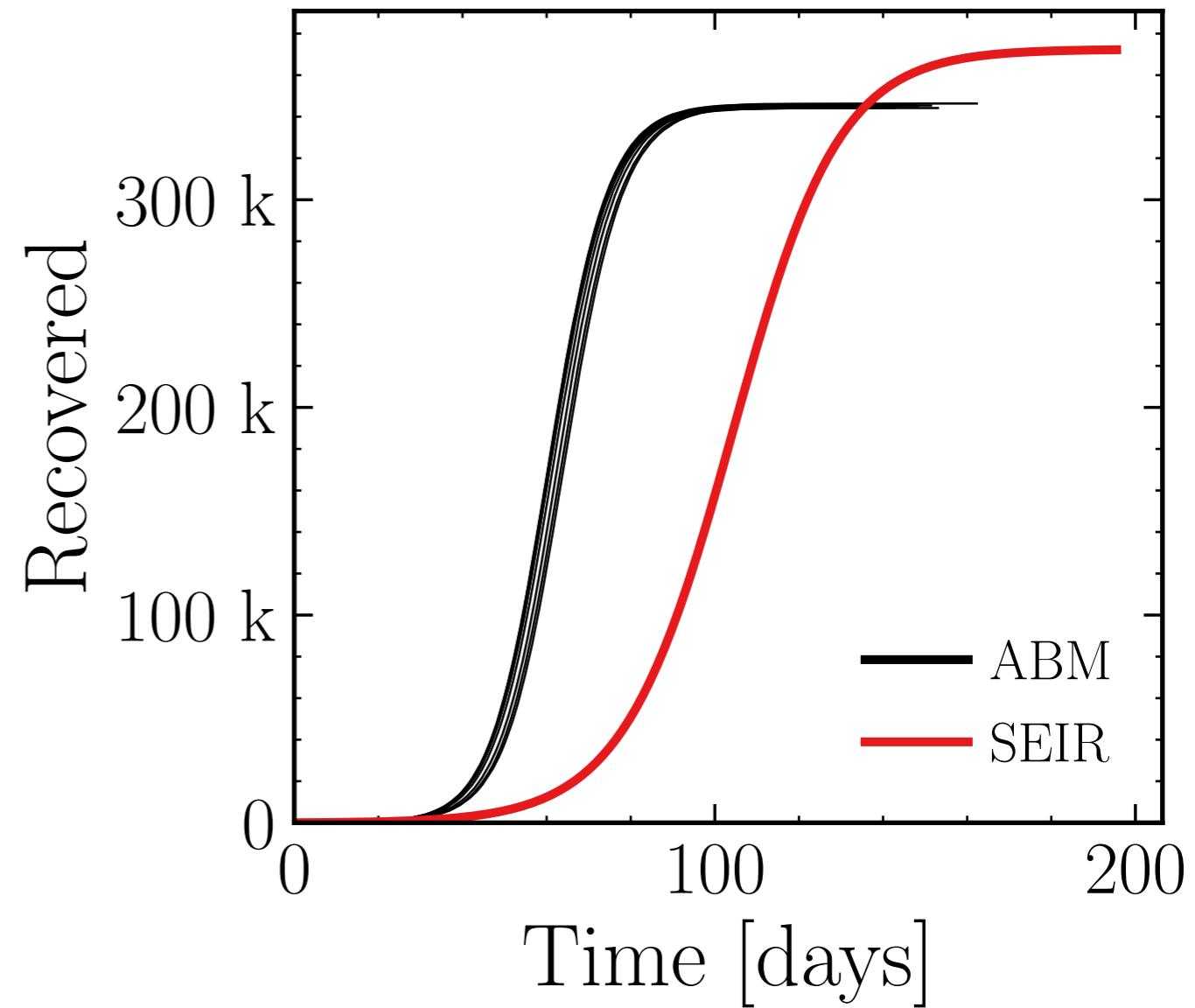
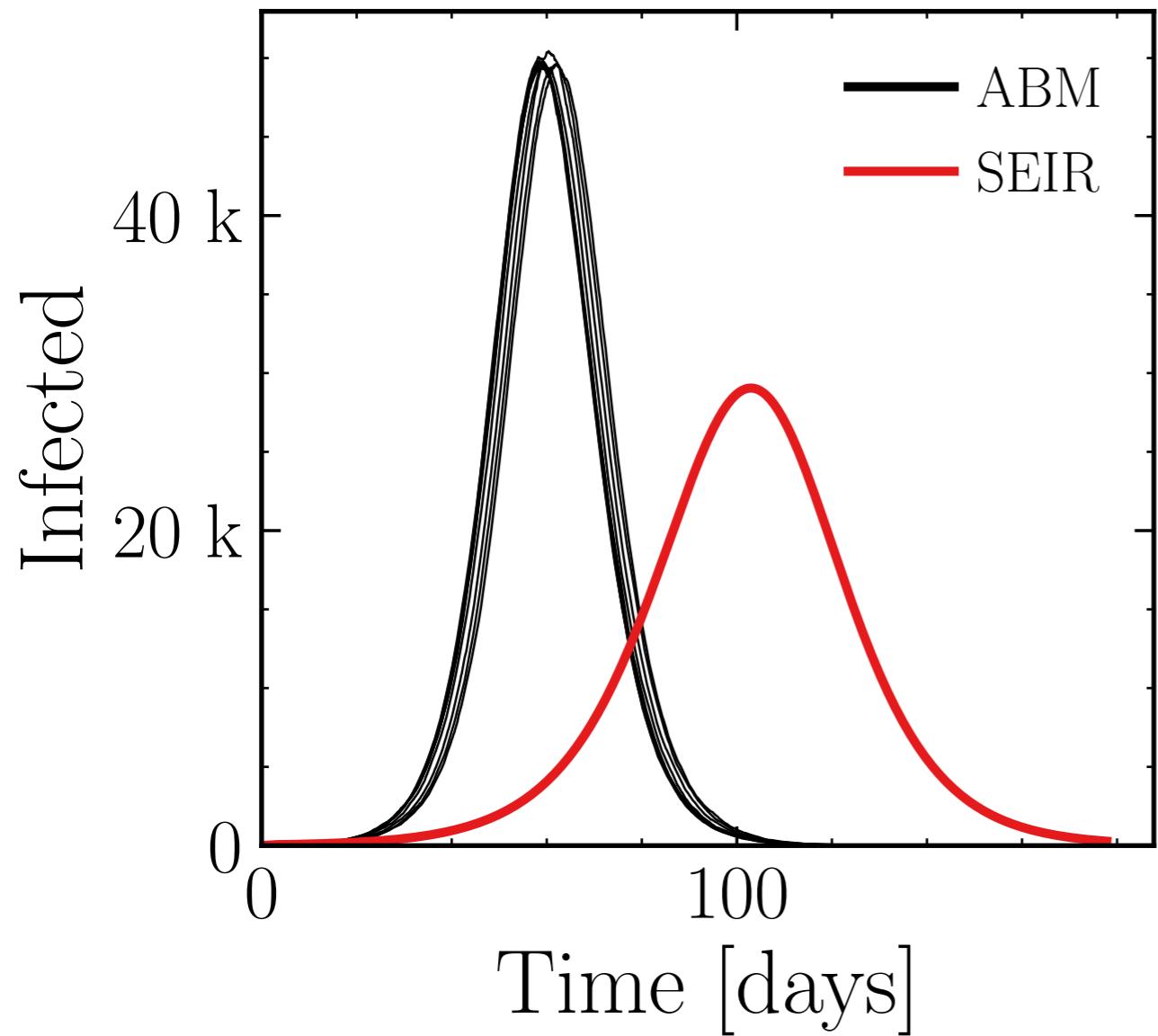
$$R_\infty^{\text{ABM}} = (347.4 \pm 0.099\%) \cdot 10^3$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.75$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (49.77 \pm 0.18\%) \cdot 10^3$$

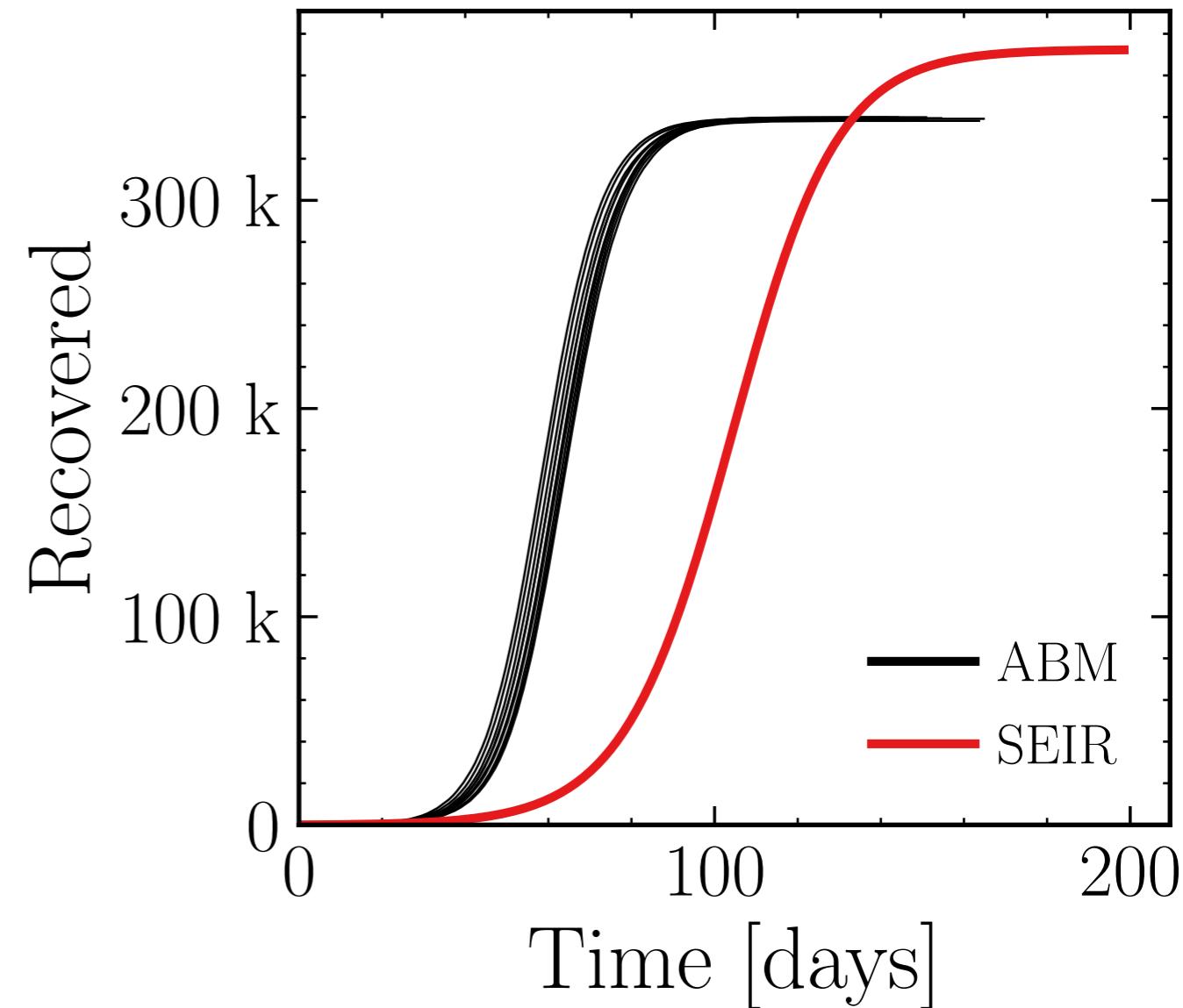
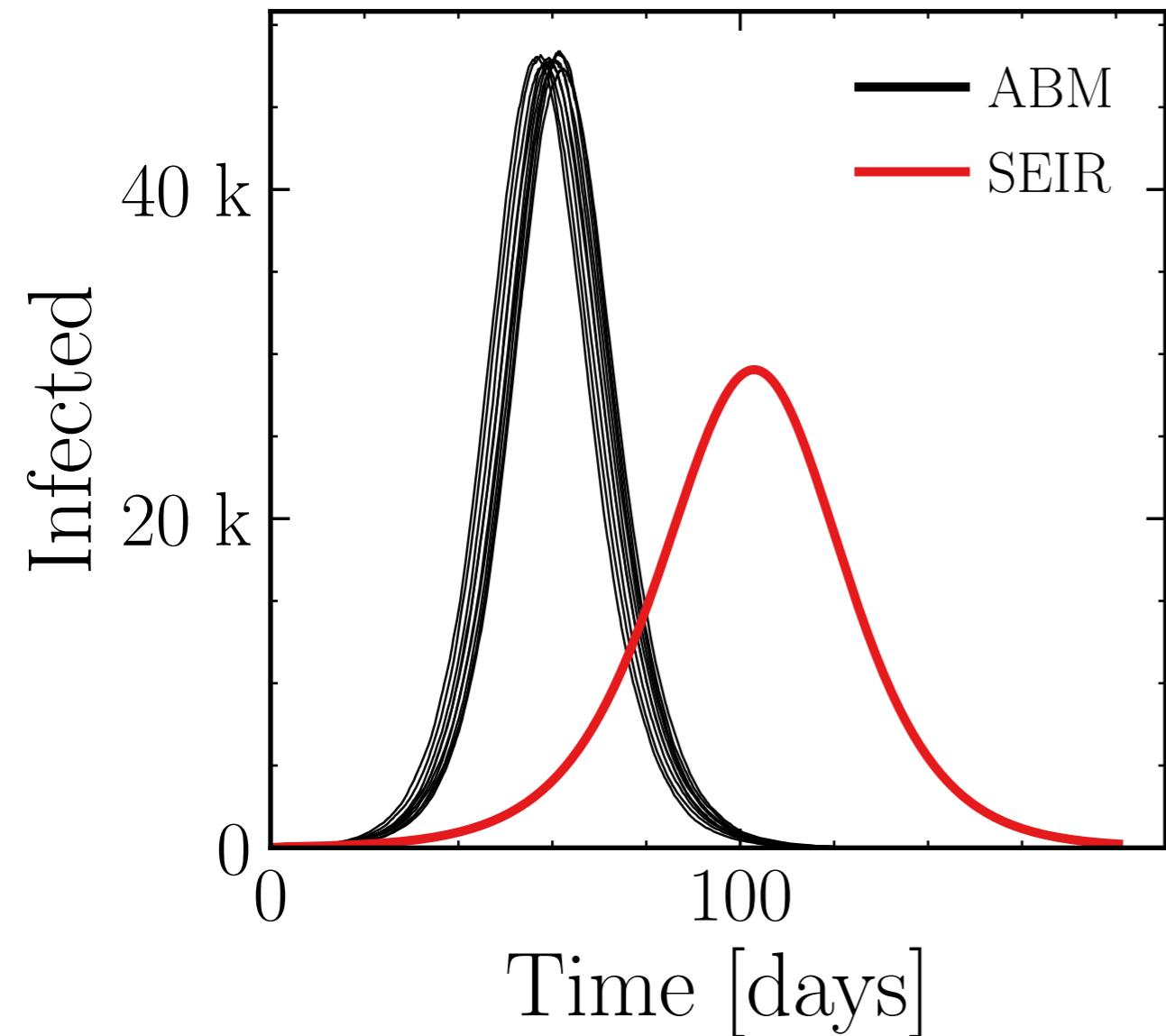
$$R_\infty^{\text{ABM}} = (345.3 \pm 0.063\%) \cdot 10^3$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.75$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 1.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

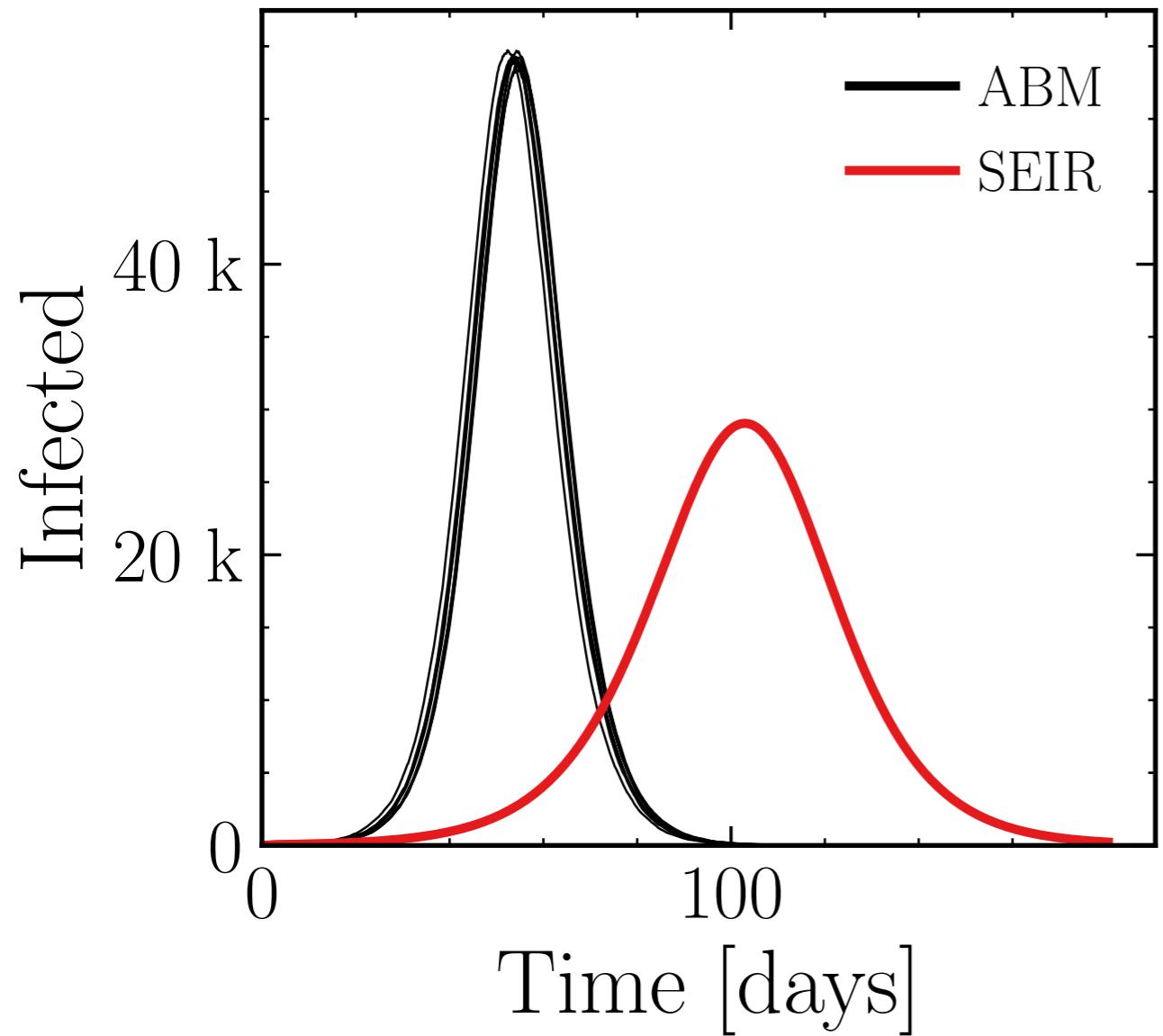
$$I_{\max}^{\text{ABM}} = (47.95 \pm 0.19\%) \cdot 10^3$$

$$R_\infty^{\text{ABM}} = (339.3 \pm 0.05\%) \cdot 10^3$$

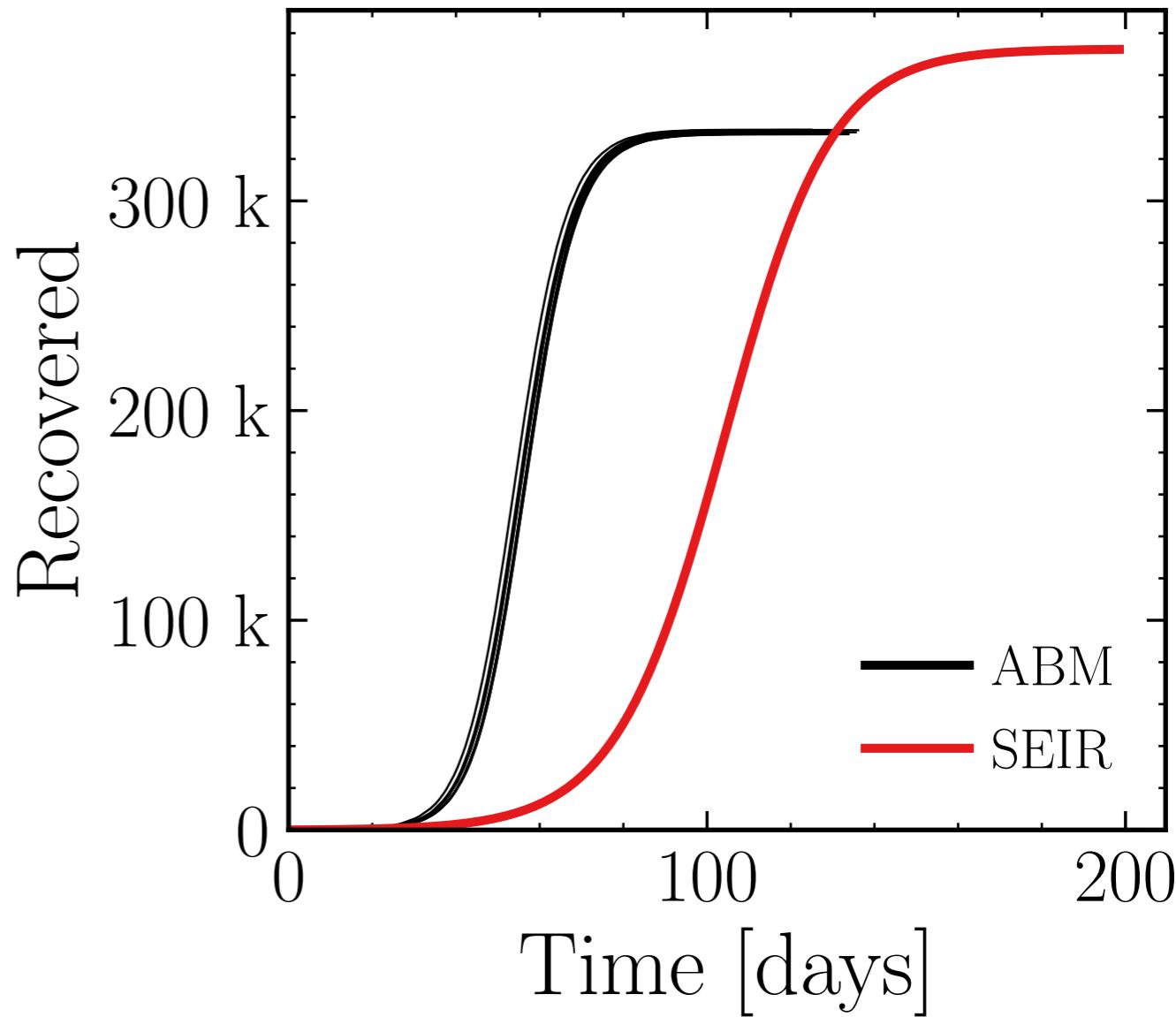


$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (54.2 \pm 0.22\%) \cdot 10^3$$



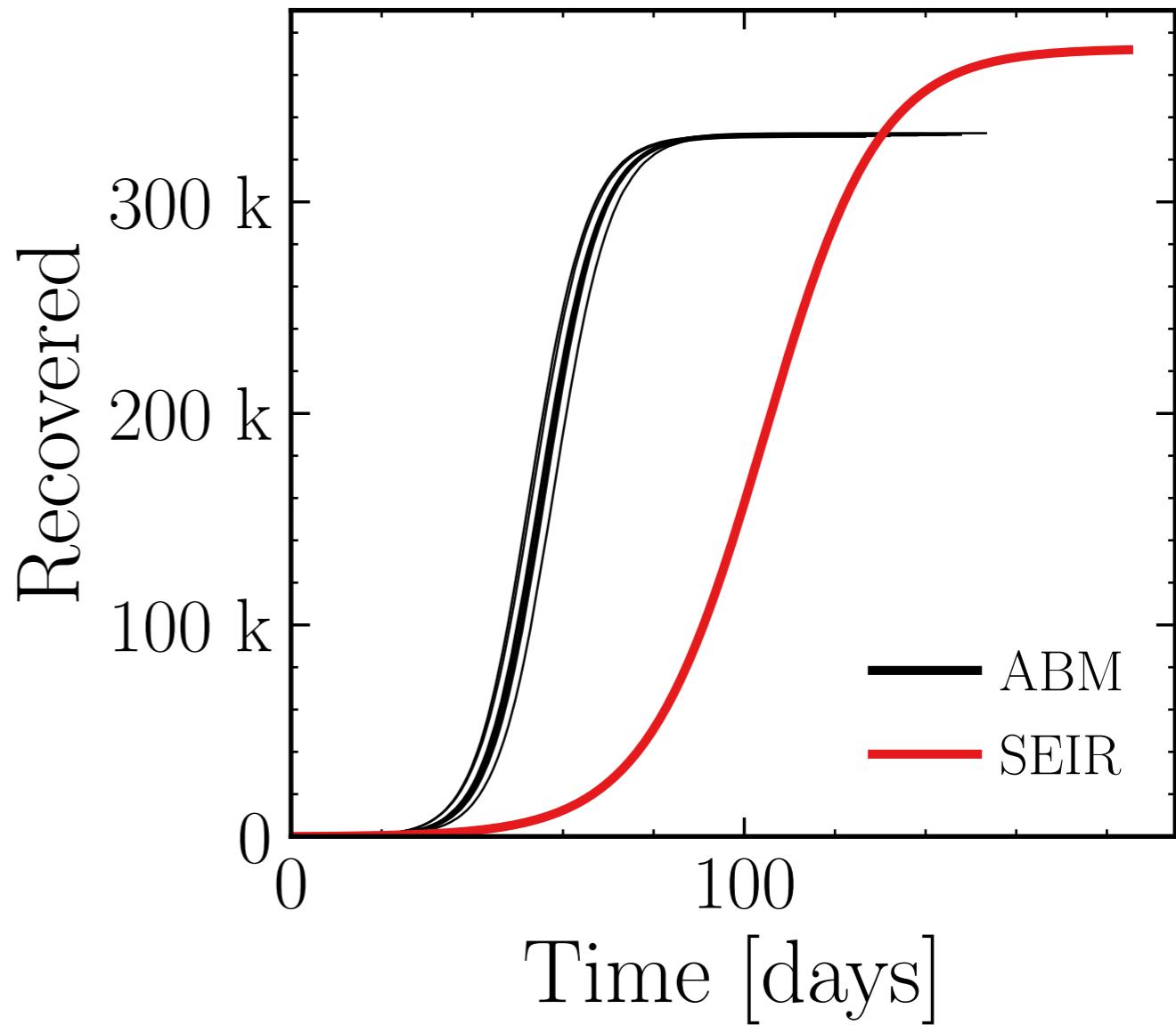
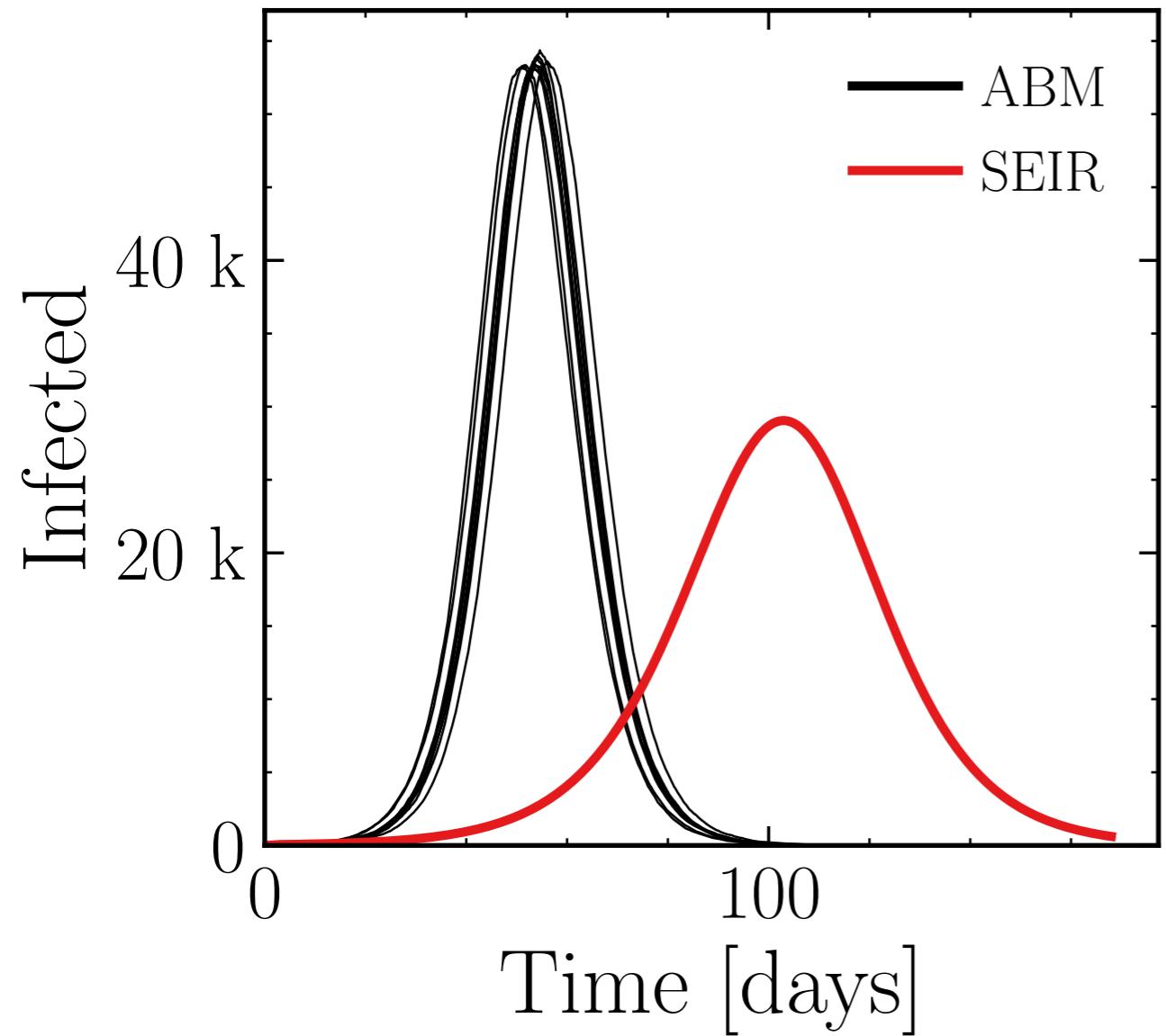
$$R_\infty^{\text{ABM}} = (333.1 \pm 0.069\%) \cdot 10^3$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.25$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

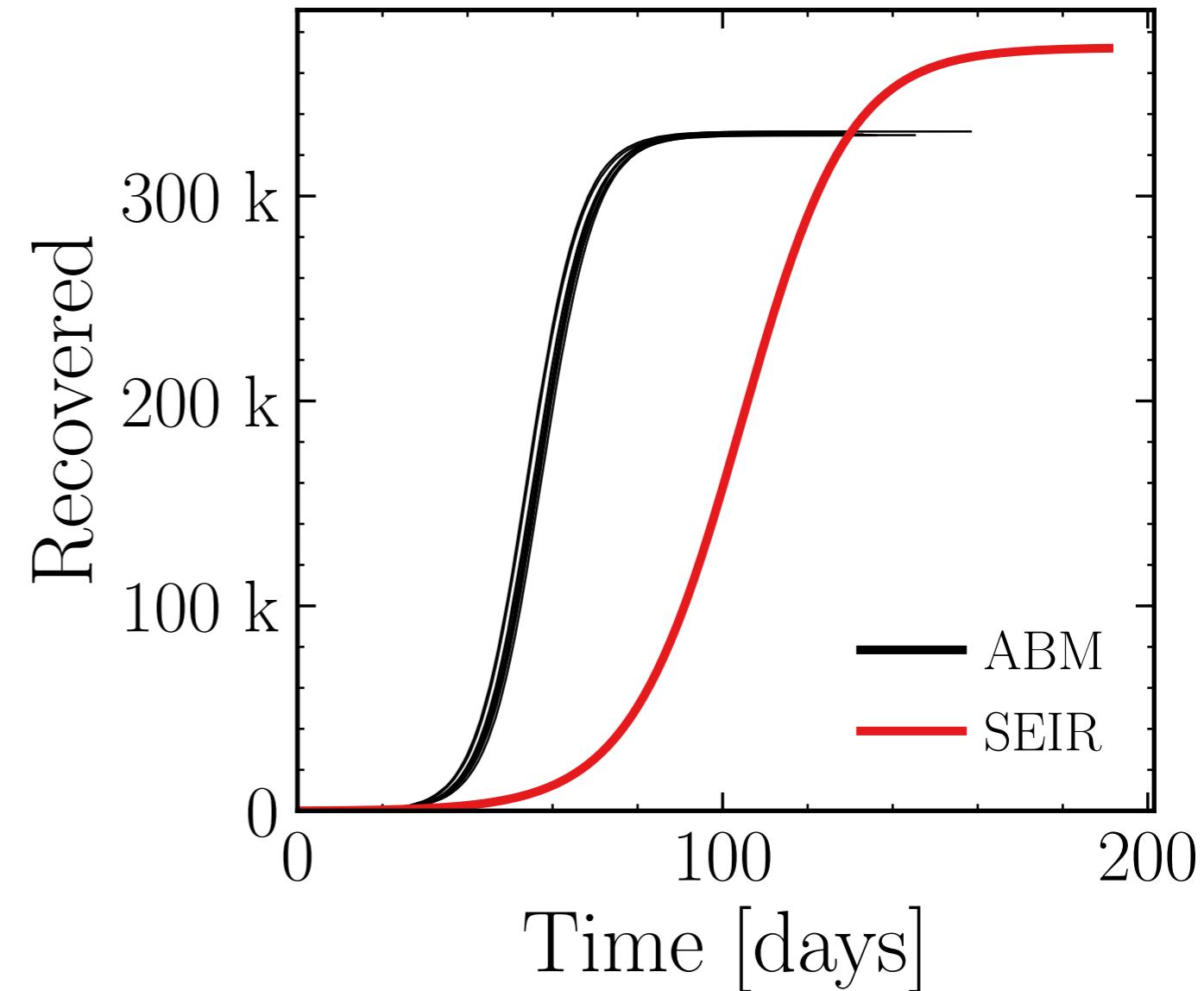
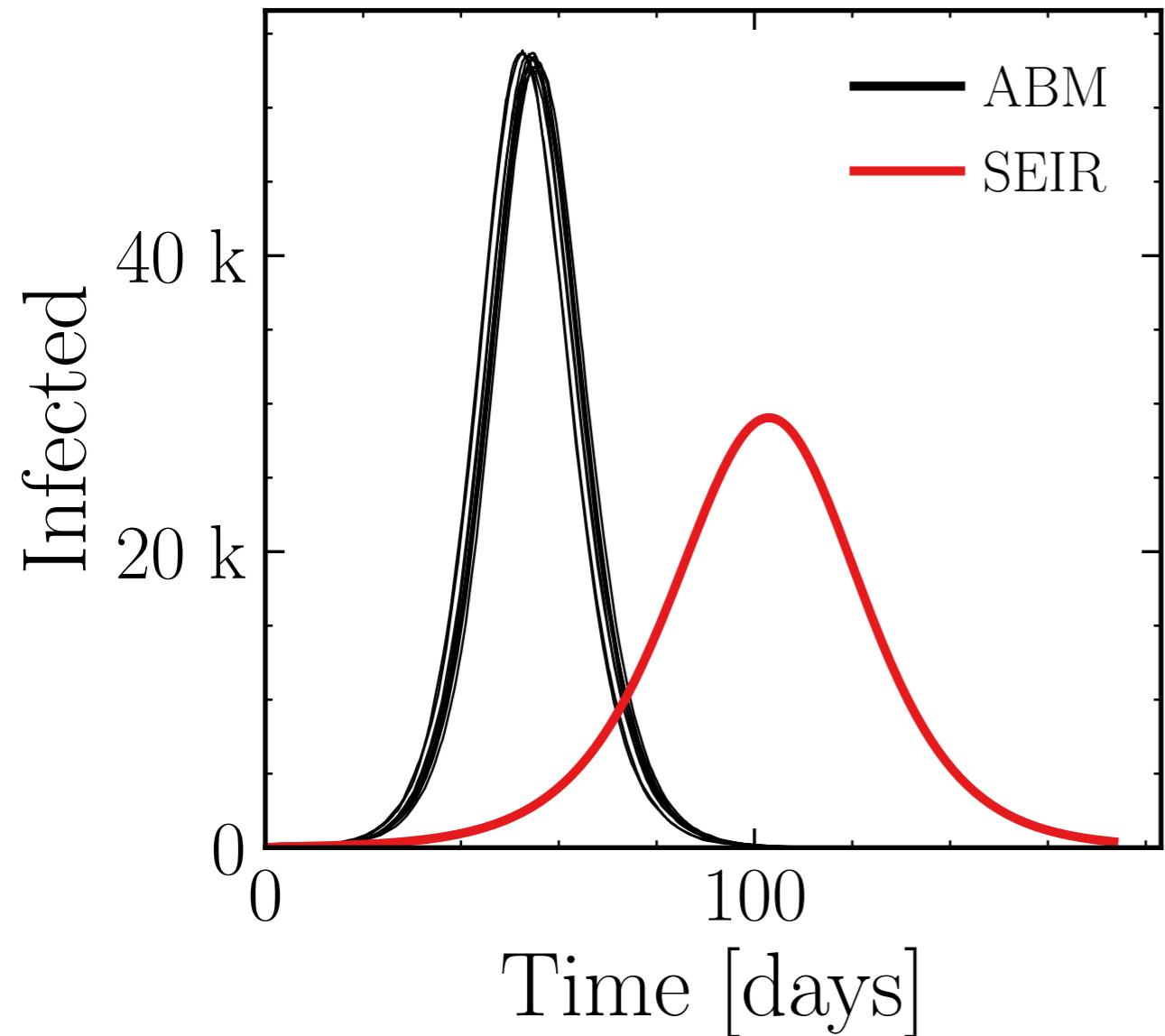
$$I_{\max}^{\text{ABM}} = (53.5 \pm 0.23\%) \cdot 10^3$$

$$R_\infty^{\text{ABM}} = (331.7 \pm 0.046\%) \cdot 10^3$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.5$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (53.3 \pm 0.26\%) \cdot 10^3$$

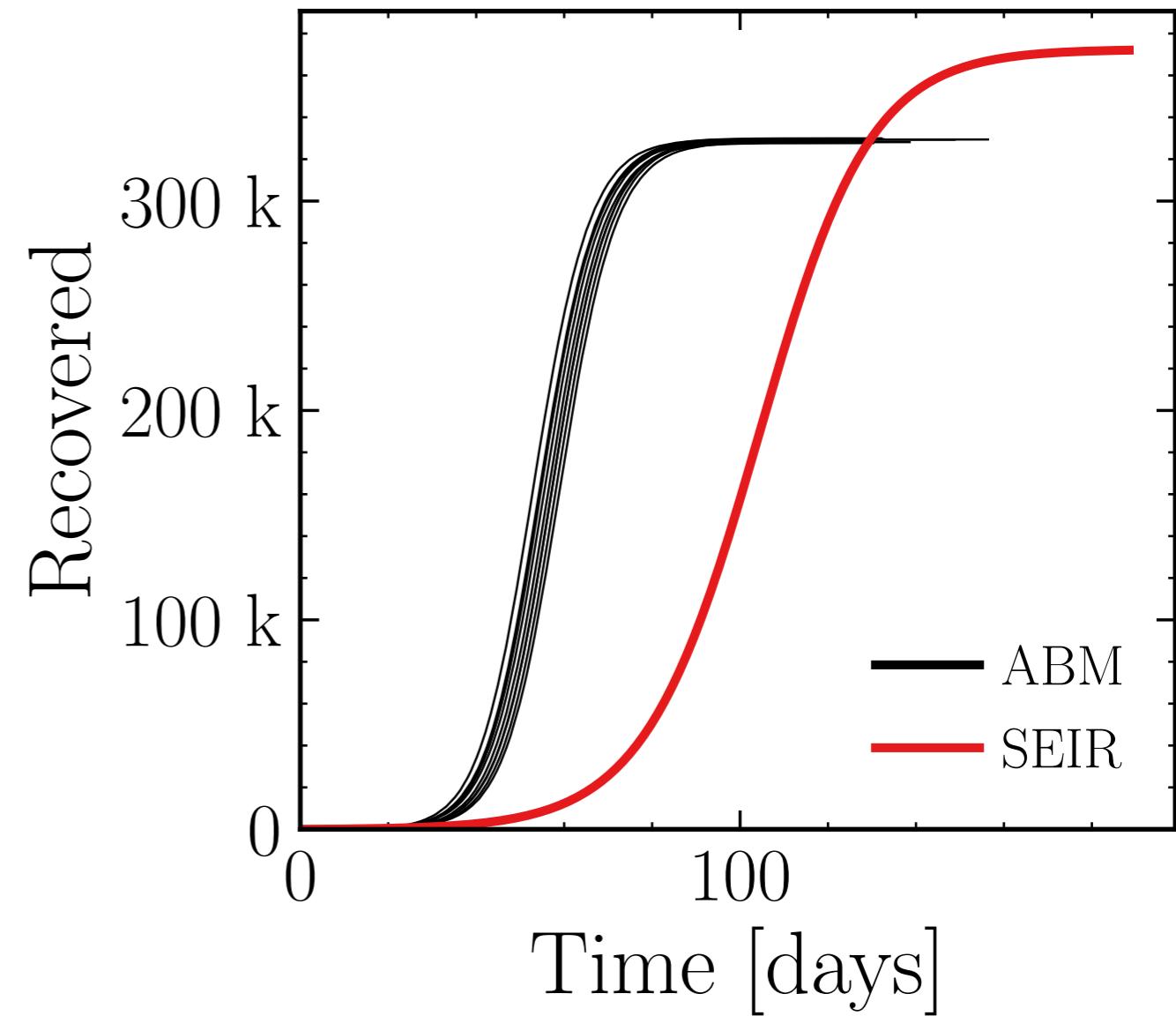
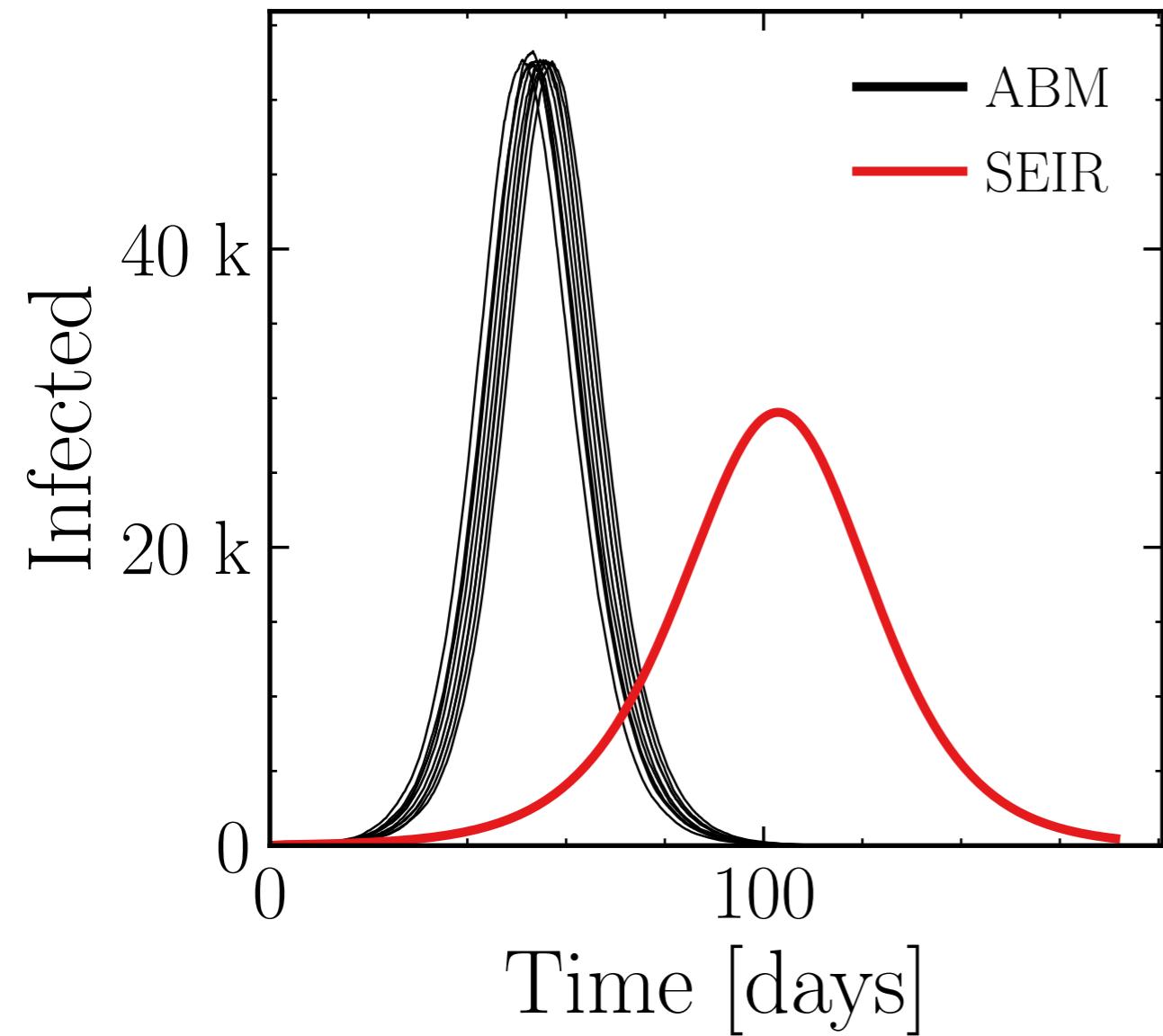


$$R_{\infty}^{\text{ABM}} = (330.4 \pm 0.061\%) \cdot 10^3$$

$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.75$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (52.64 \pm 0.14\%) \cdot 10^3$$

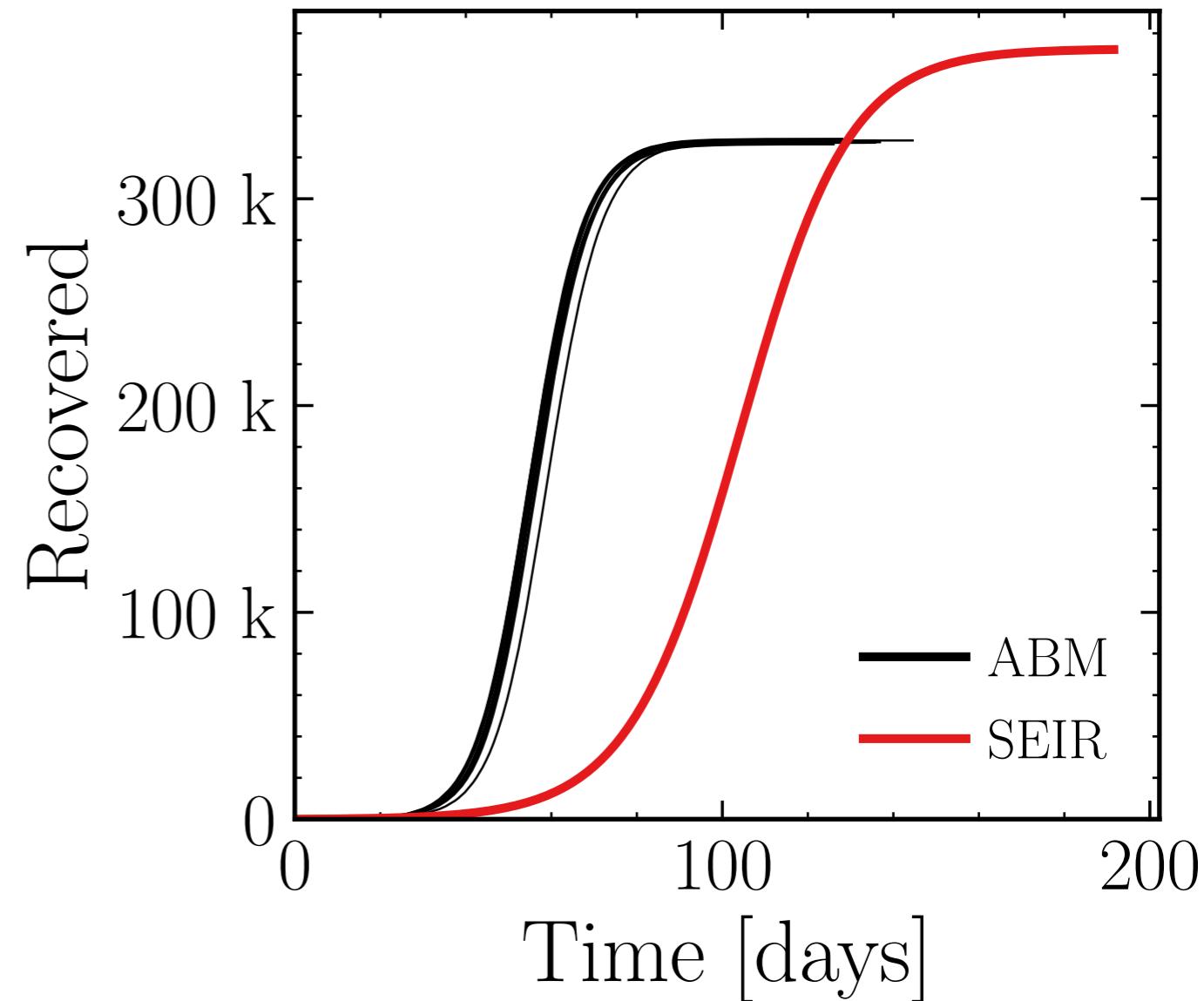
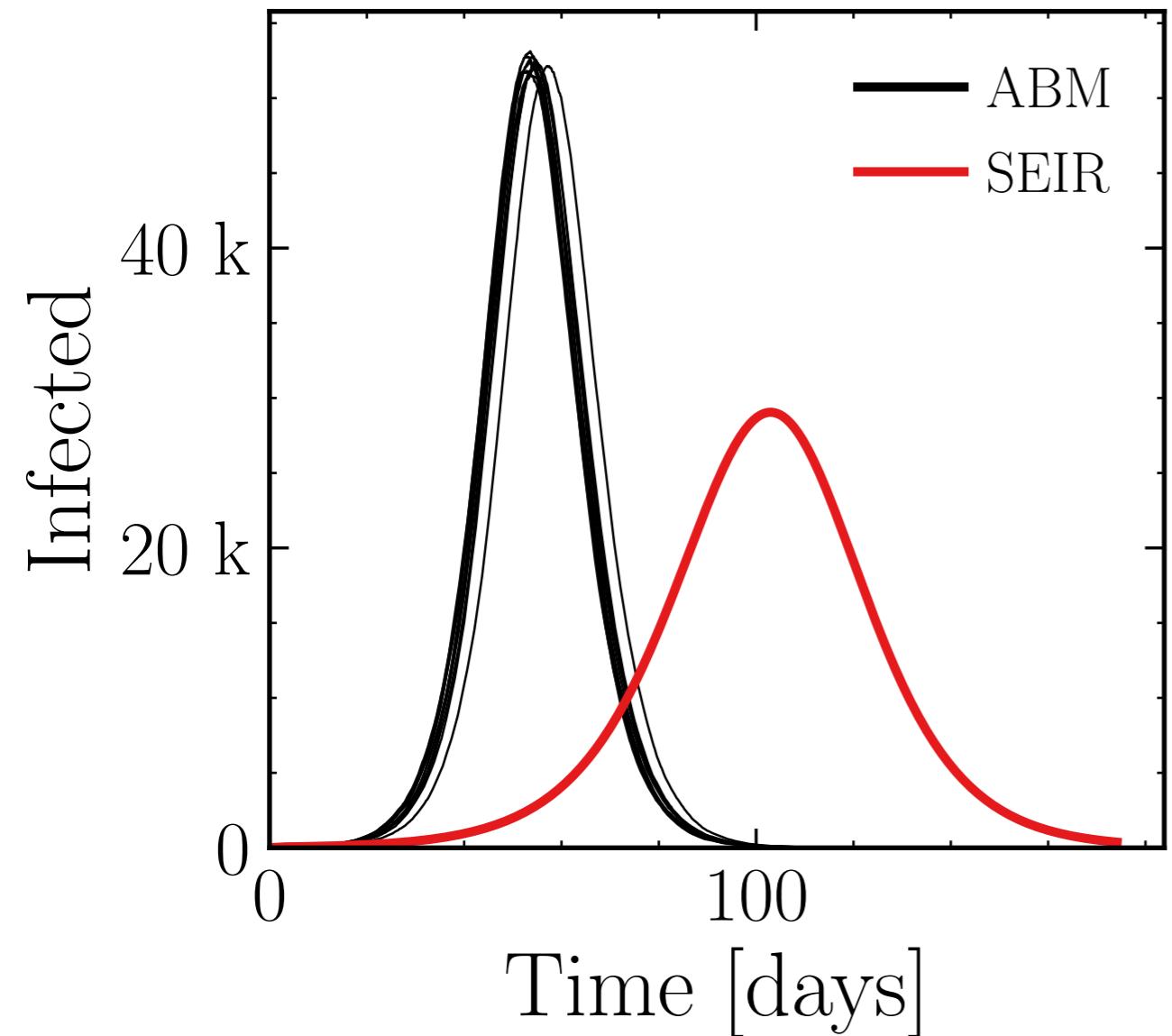
$$R_\infty^{\text{ABM}} = (328.9 \pm 0.063\%) \cdot 10^3$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 1.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (52.3 \pm 0.28\%) \cdot 10^3$$

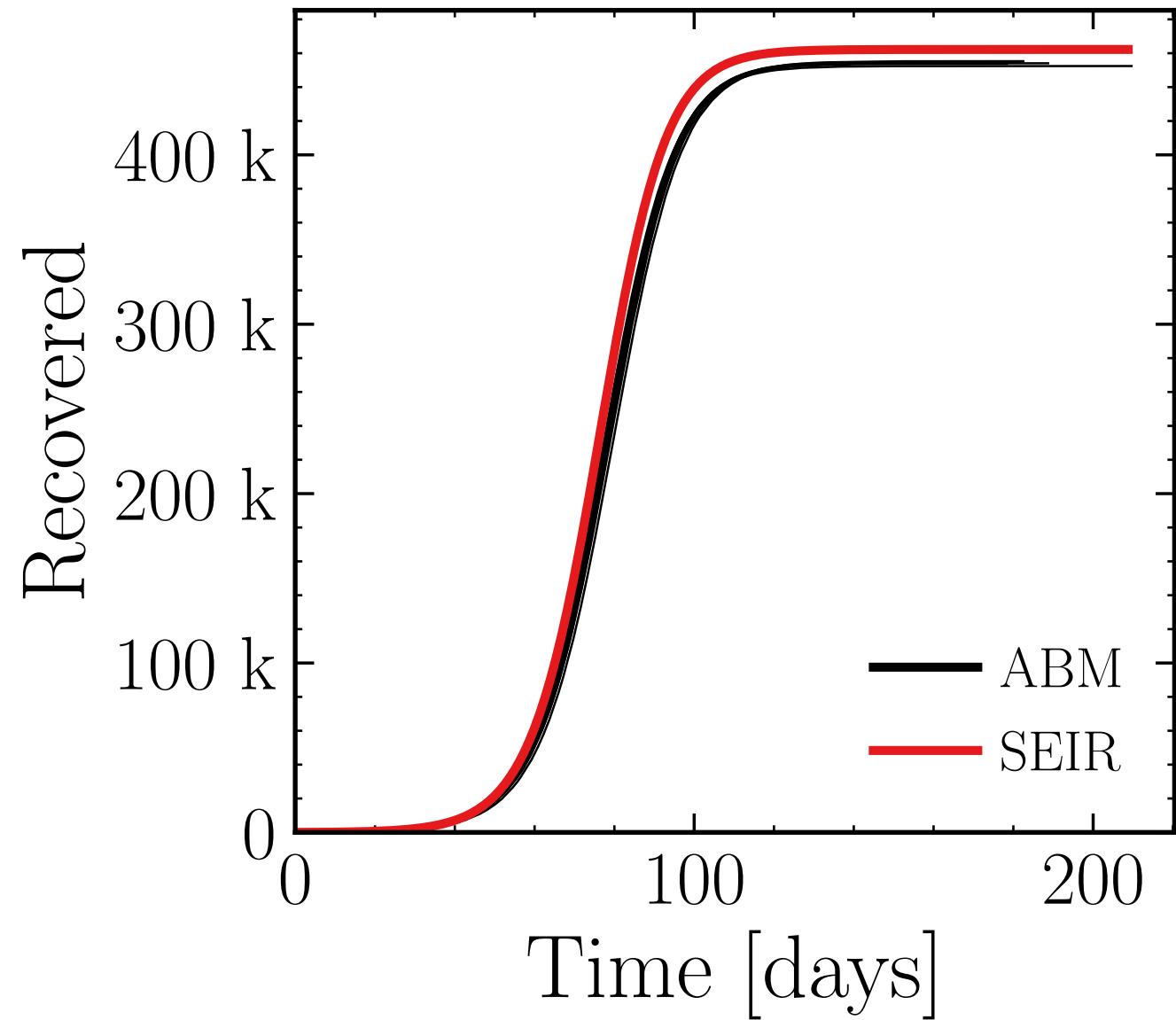
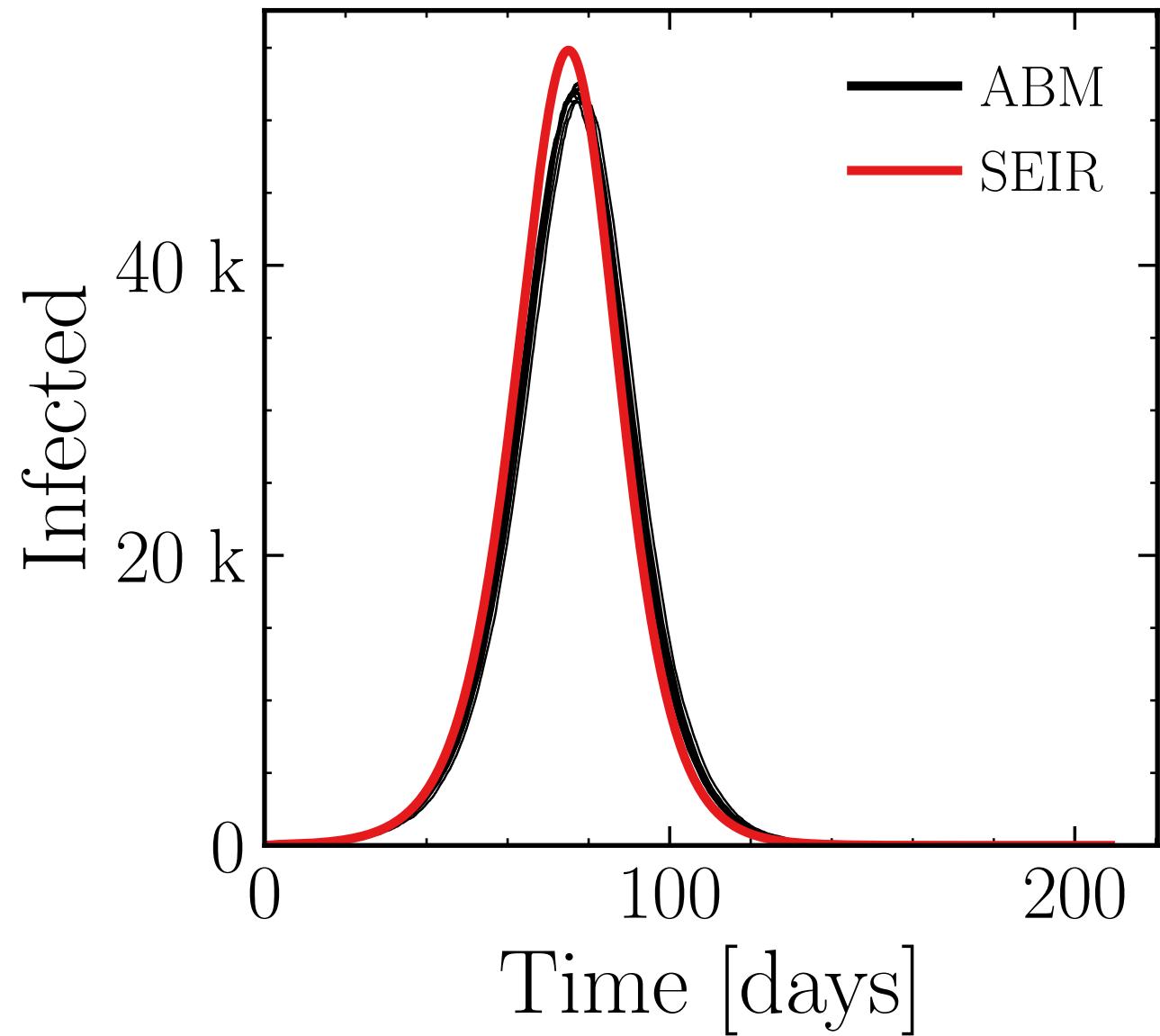
$$R_\infty^{\text{ABM}} = (327.6 \pm 0.068\%) \cdot 10^3$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 50.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

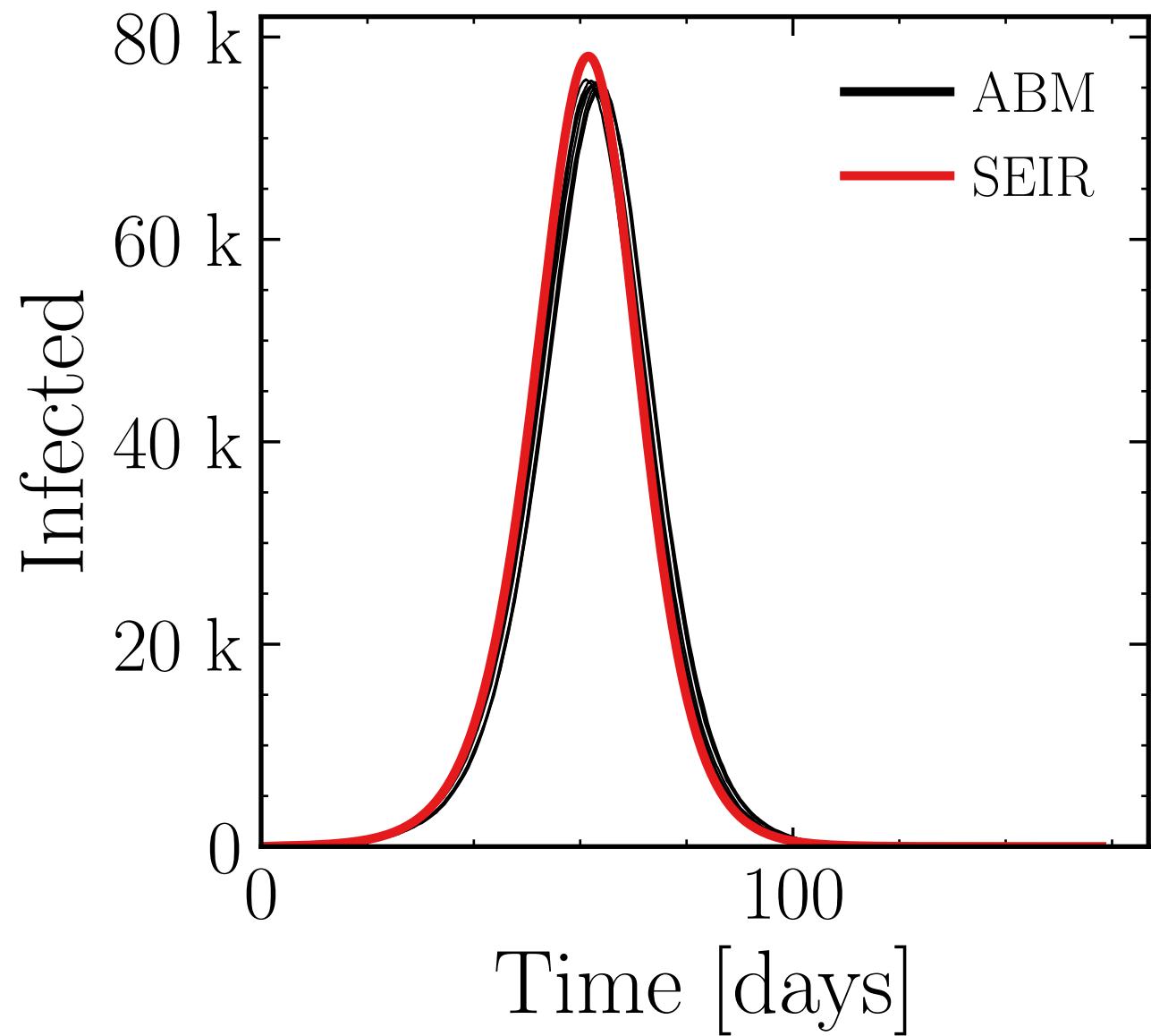
$$I_{\max}^{\text{ABM}} = (52 \pm 0.24\%) \cdot 10^3$$

$$R_{\infty}^{\text{ABM}} = (454.3 \pm 0.052\%) \cdot 10^3$$

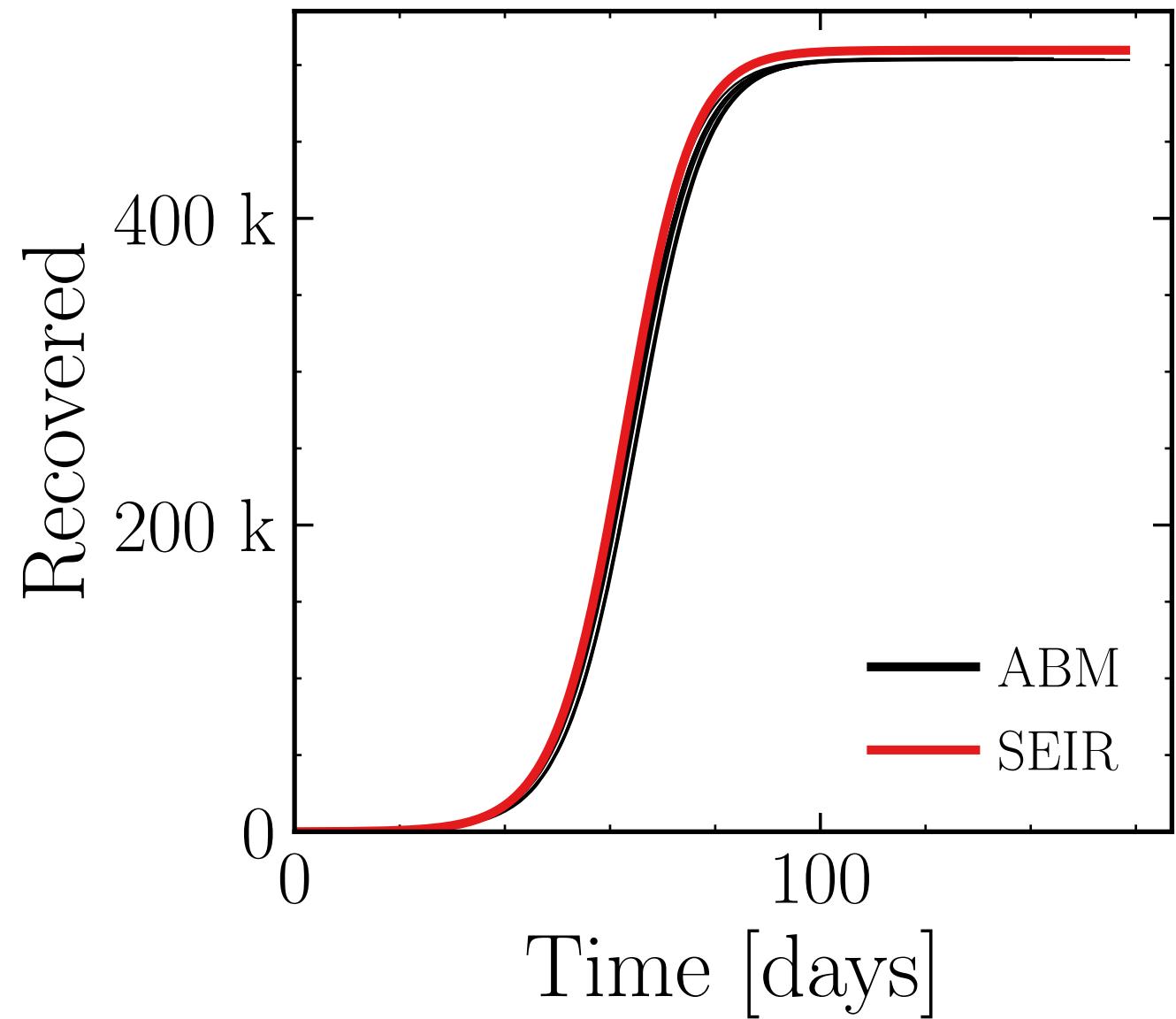


$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 60.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (75.3 \pm 0.14\%) \cdot 10^3$$



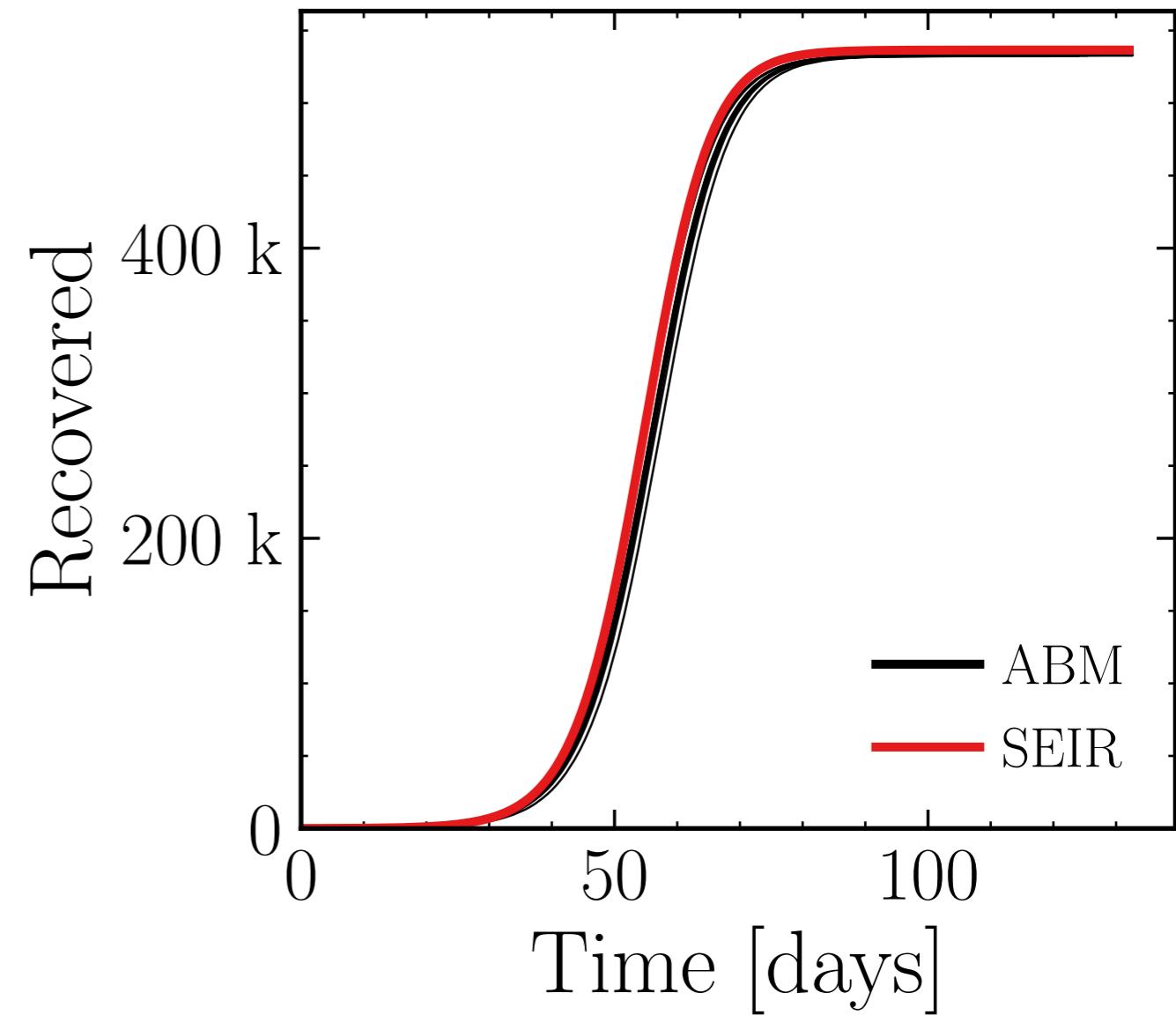
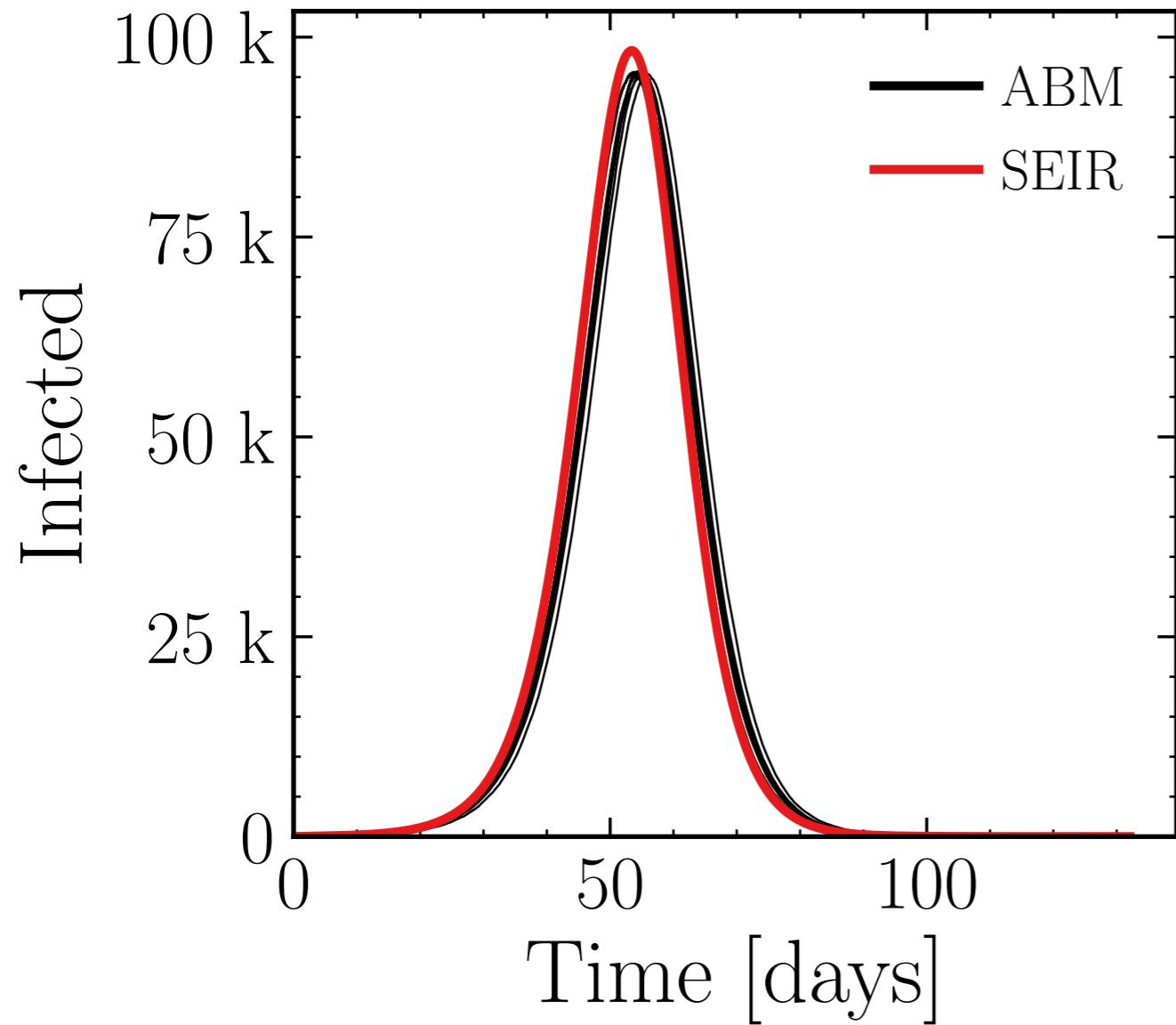
$$R_\infty^{\text{ABM}} = (503.9 \pm 0.024\%) \cdot 10^3$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 70.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

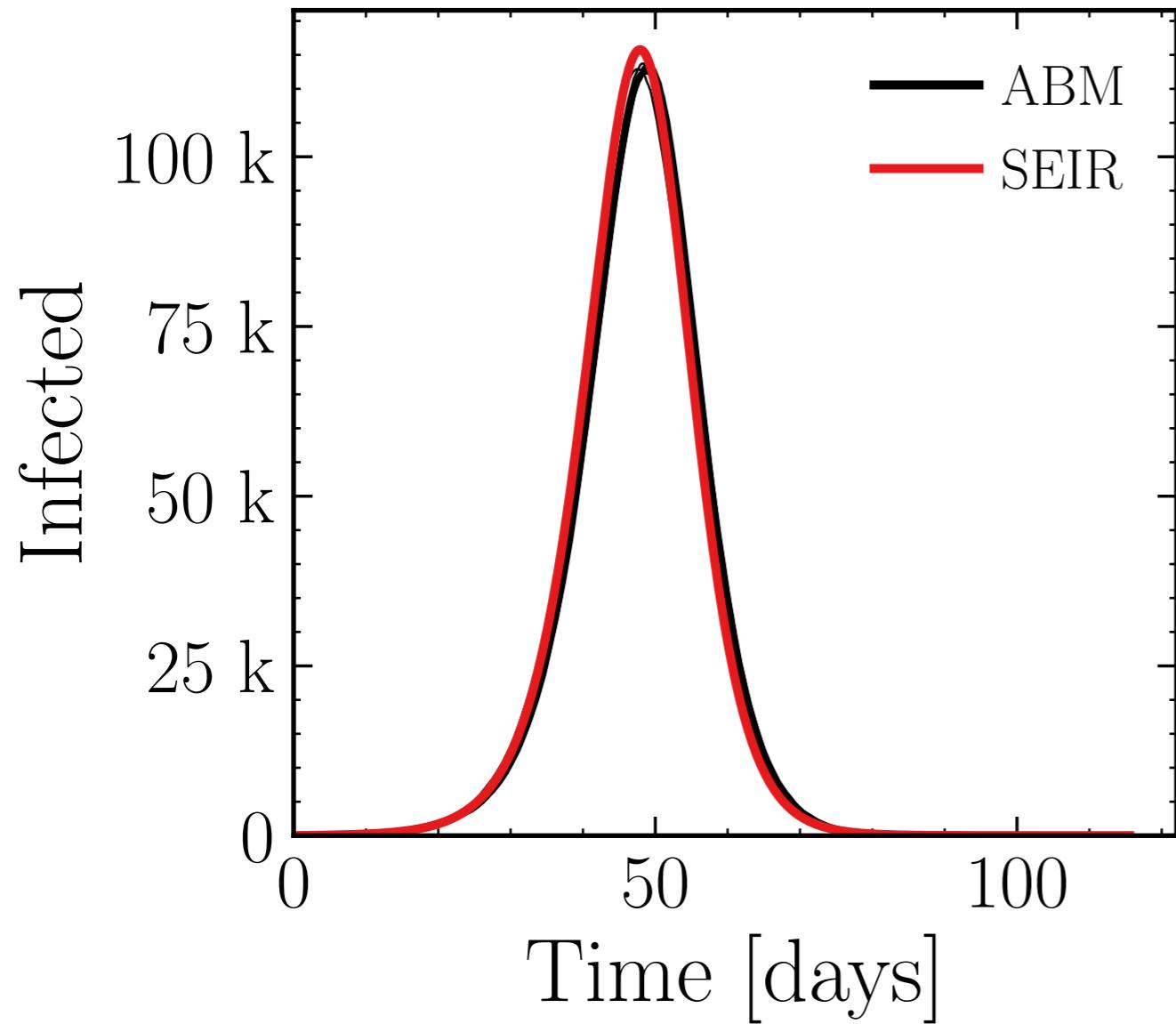
$$I_{\max}^{\text{ABM}} = (95.48 \pm 0.052\%) \cdot 10^3$$

$$R_\infty^{\text{ABM}} = (532.72 \pm 0.015\%) \cdot 10^3$$

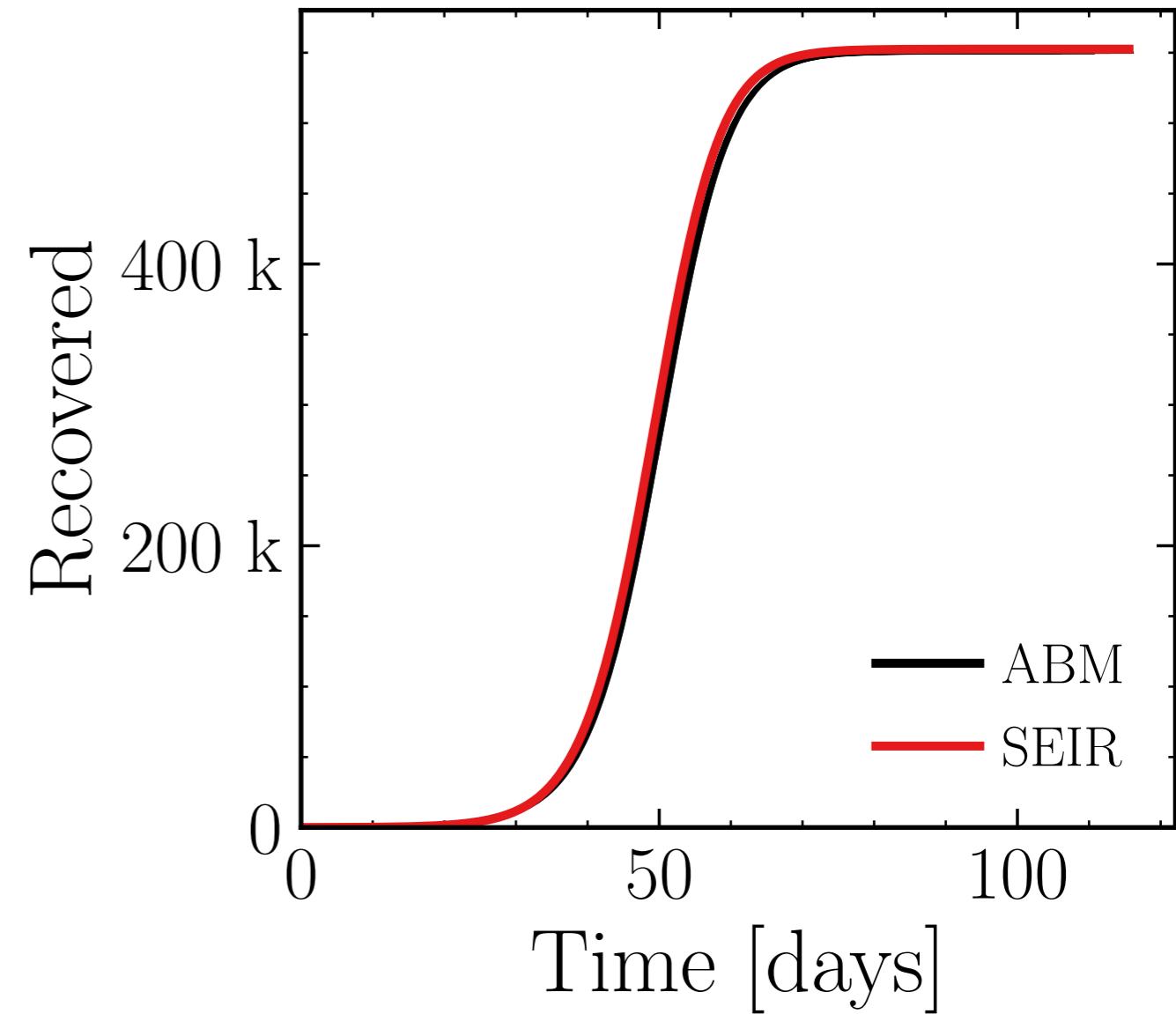


$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 80.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (113.1 \pm 0.12\%) \cdot 10^3$$

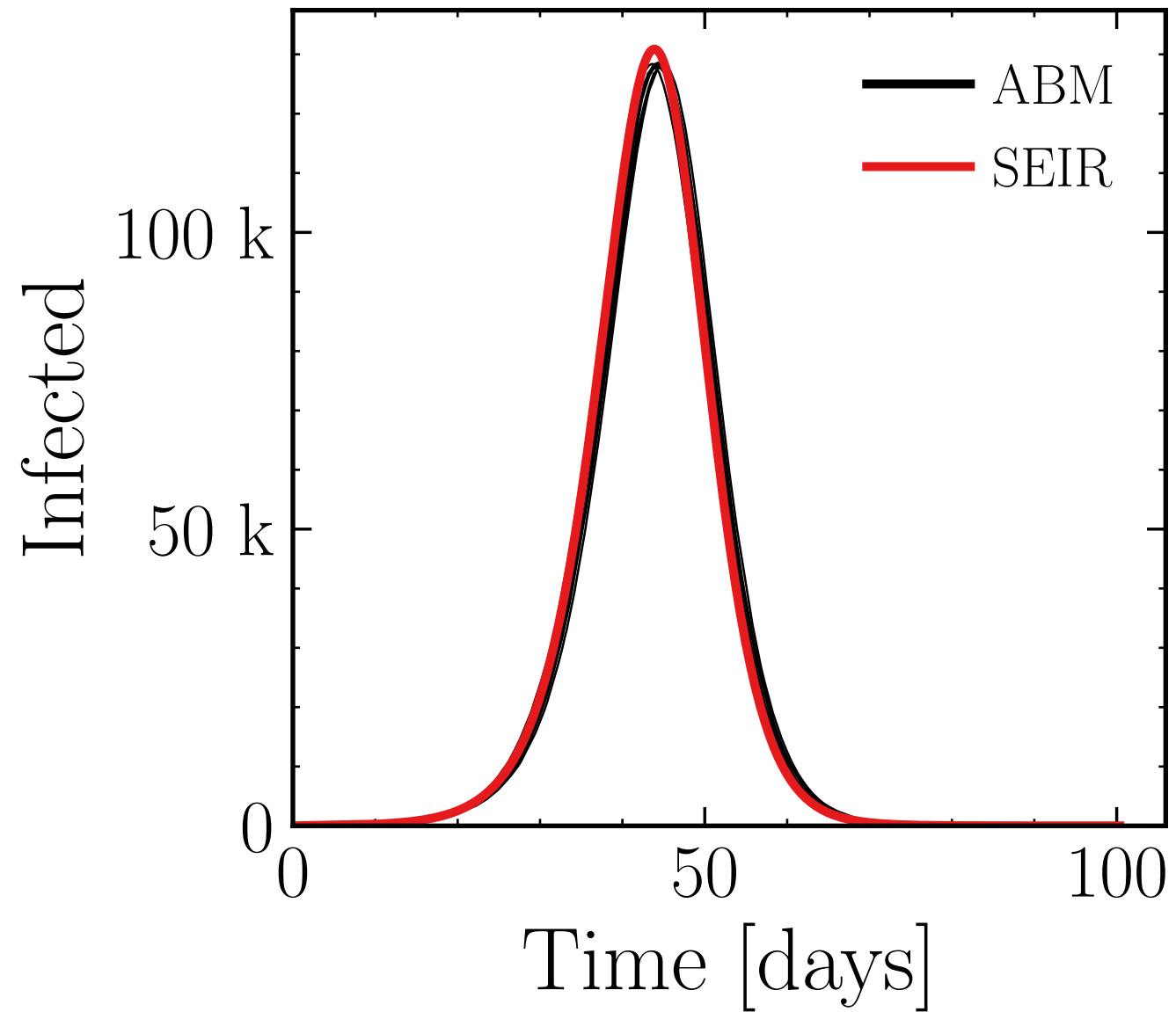


$$R_{\infty}^{\text{ABM}} = (549.9 \pm 0.015\%) \cdot 10^3$$

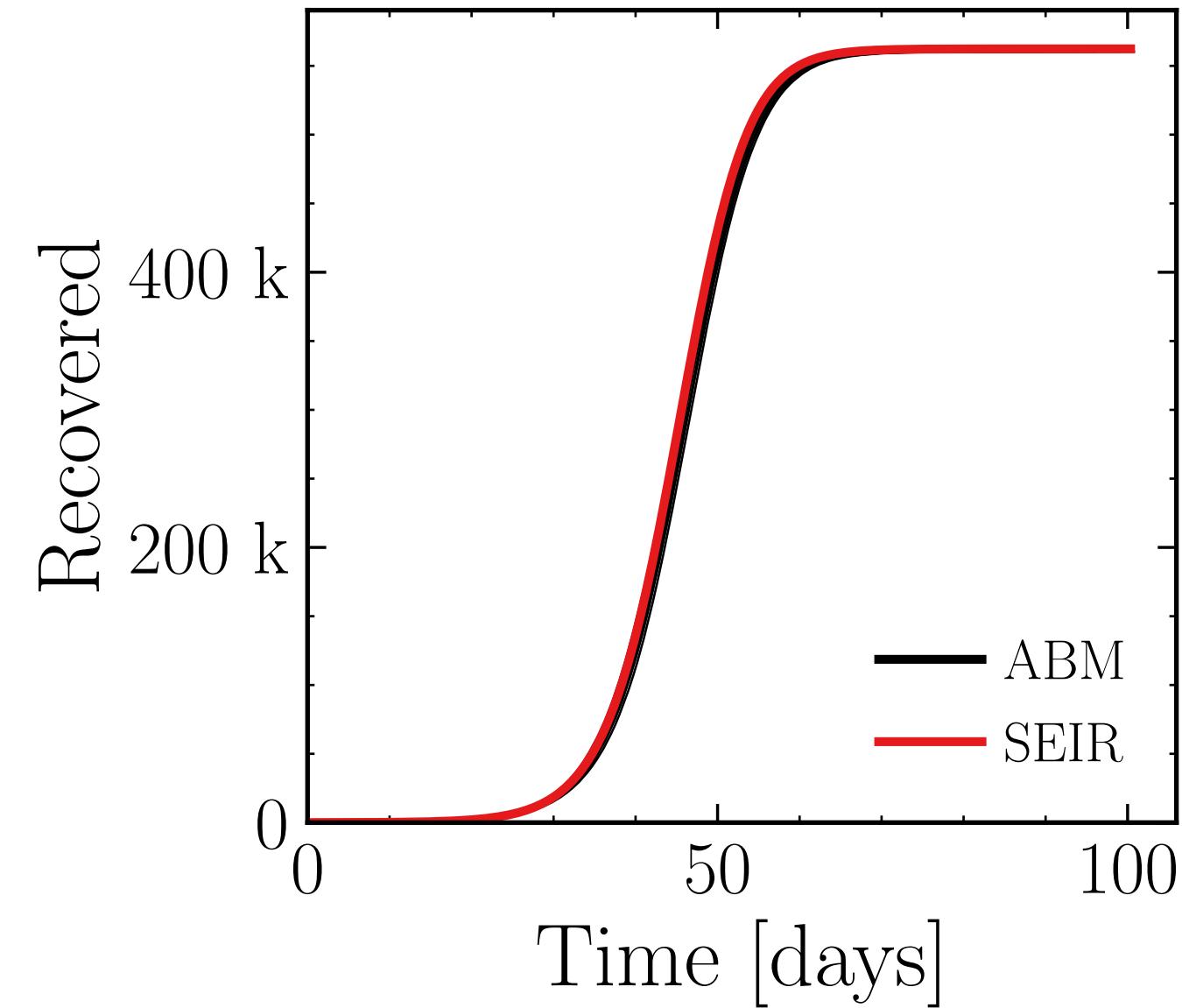


$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 90.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (128.26 \pm 0.065\%) \cdot 10^3$$



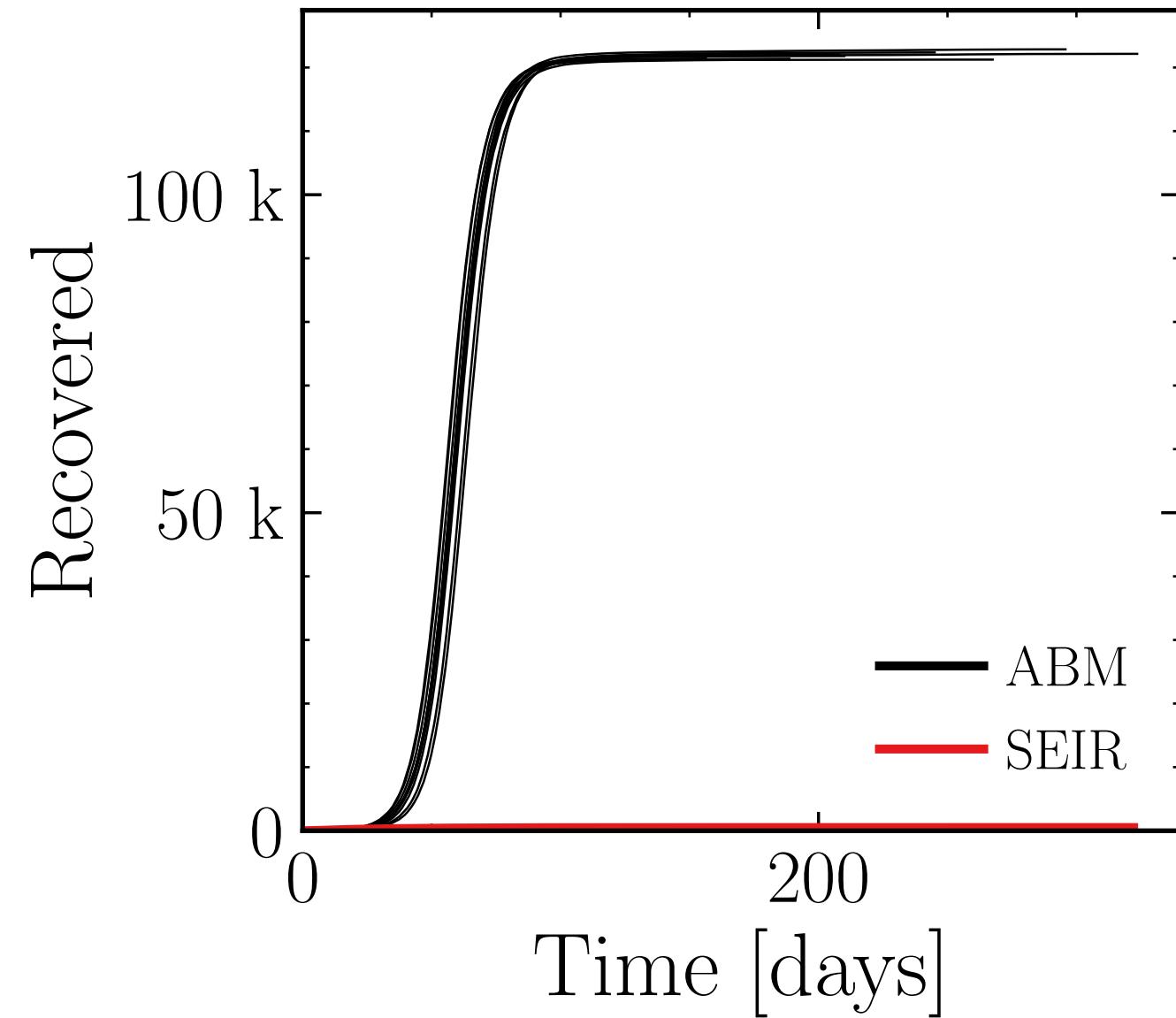
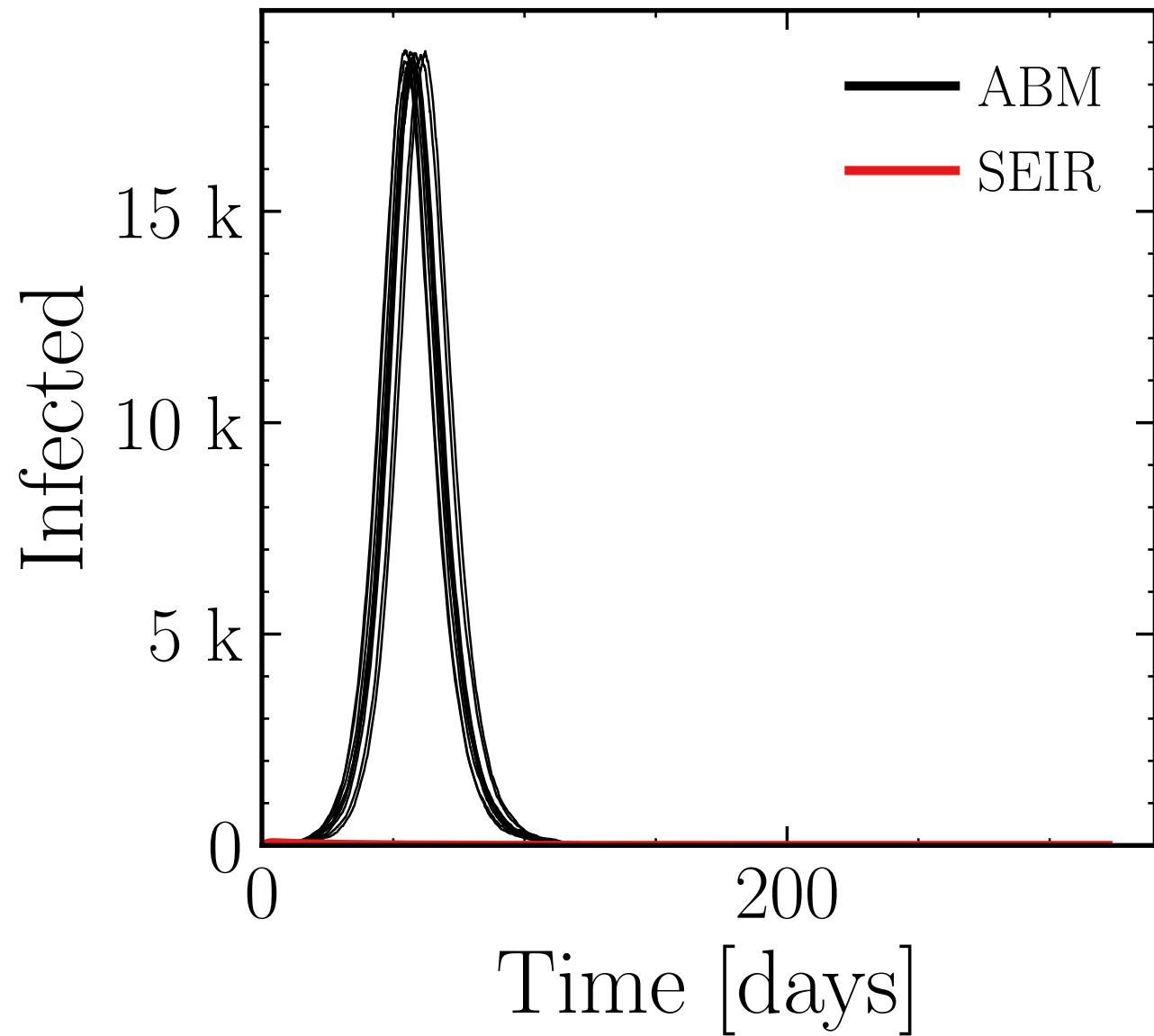
$$R_\infty^{\text{ABM}} = (560.42 \pm 0.0087\%) \cdot 10^3$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.15$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.005$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

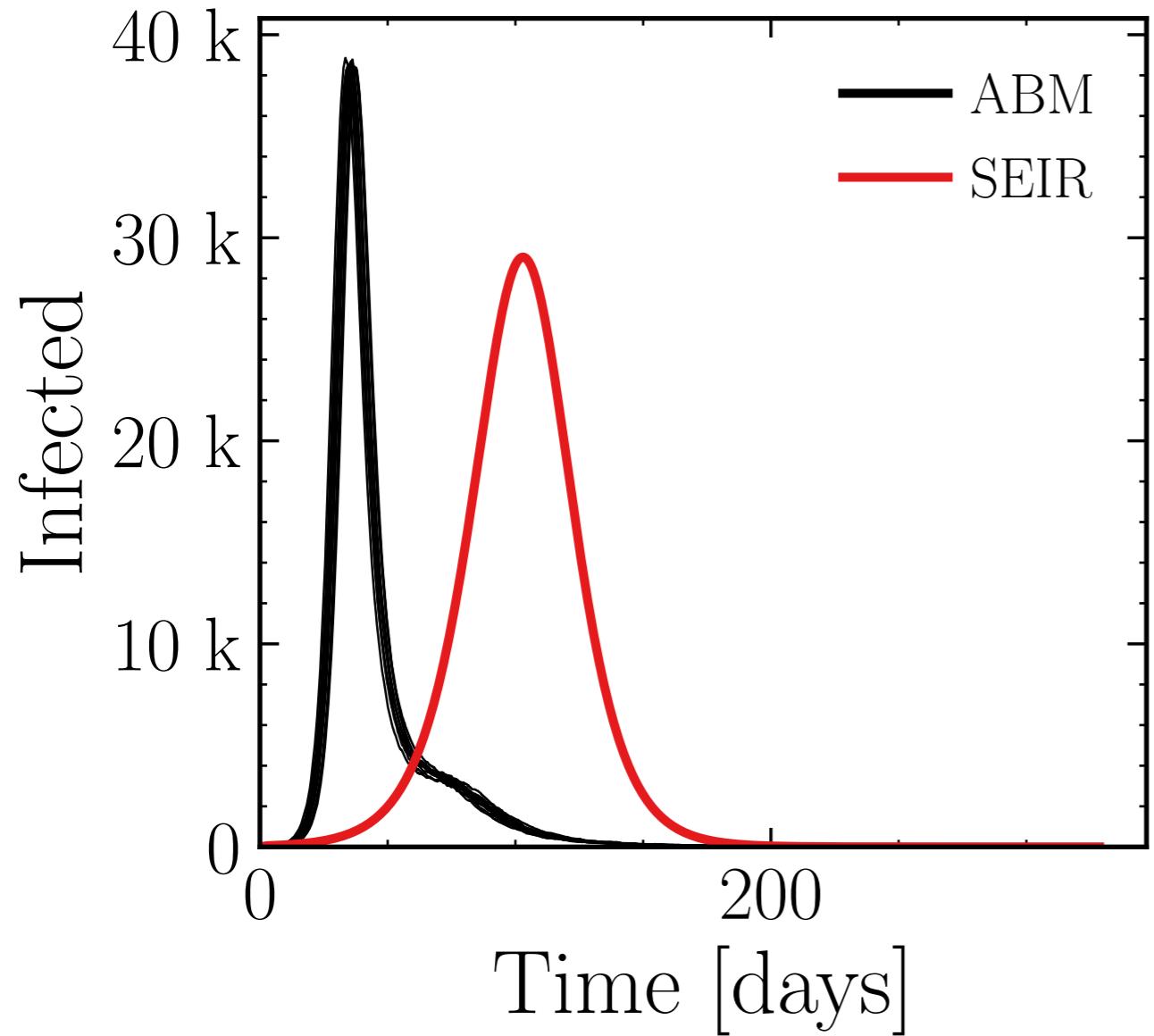
$$I_{\max}^{\text{ABM}} = (18.66 \pm 0.21\%) \cdot 10^3$$

$$R_\infty^{\text{ABM}} = (121.9 \pm 0.12\%) \cdot 10^3$$

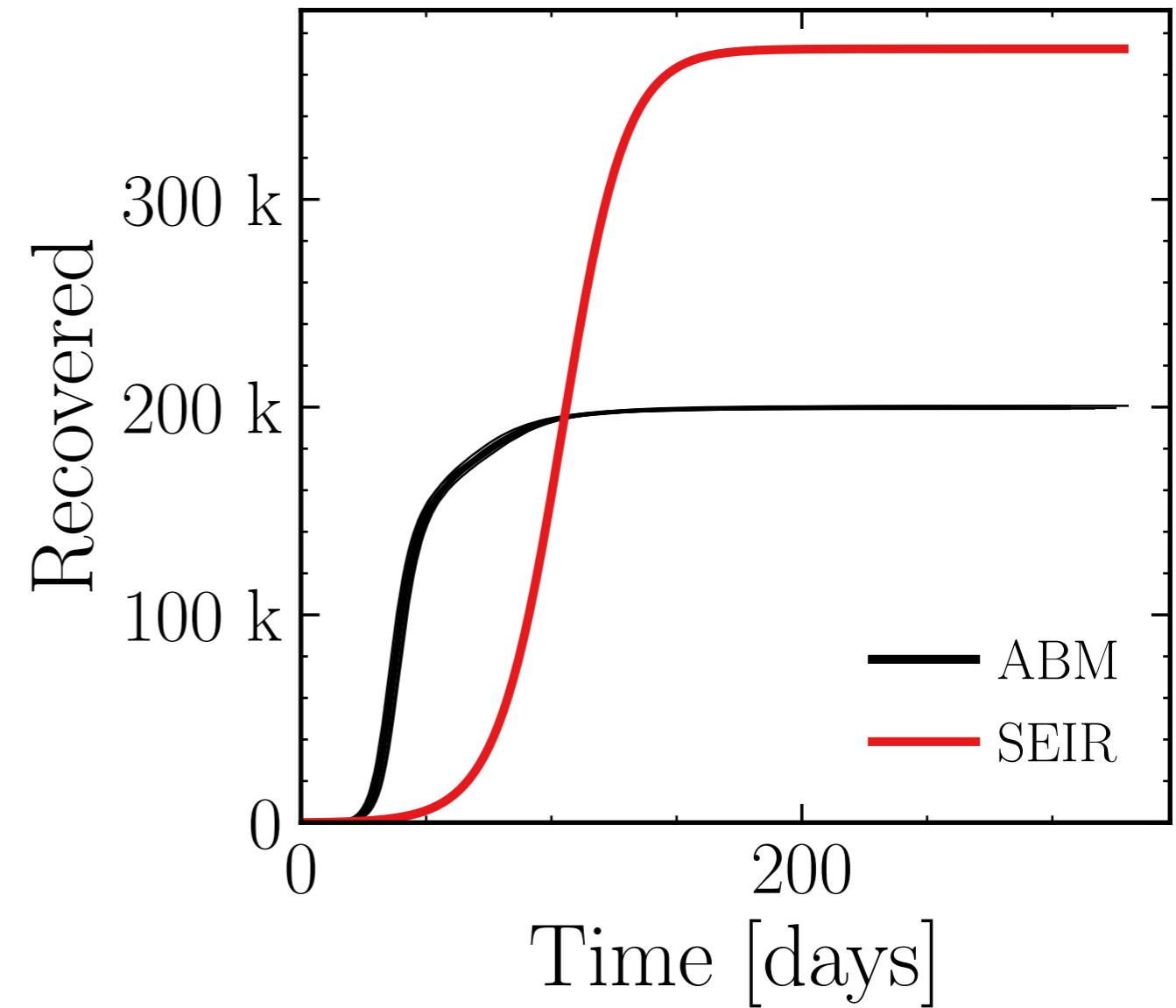


$N_{\text{tot}} = 580K$ ,  $\rho = 0.15$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (38.5 \pm 0.16\%) \cdot 10^3$$



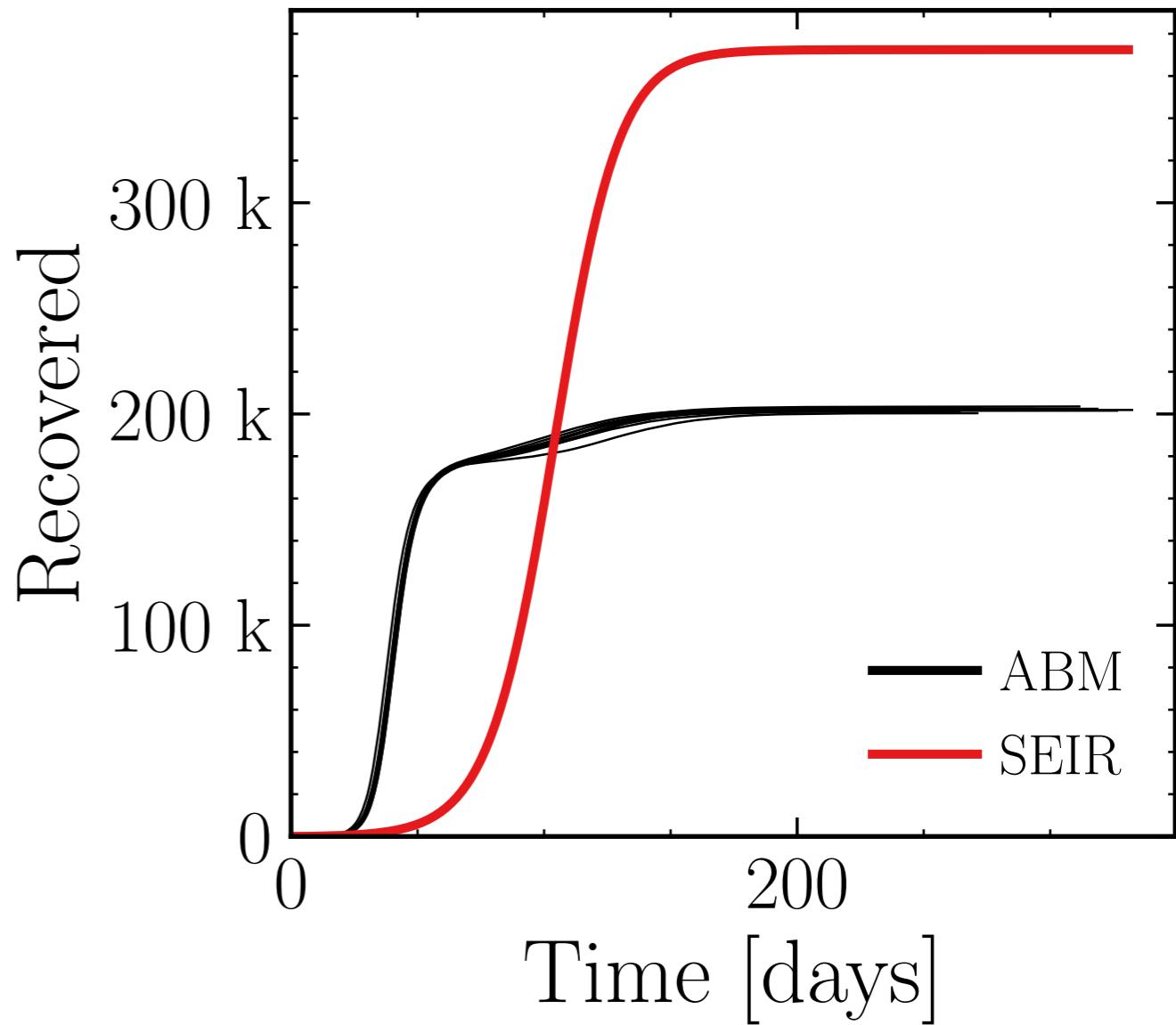
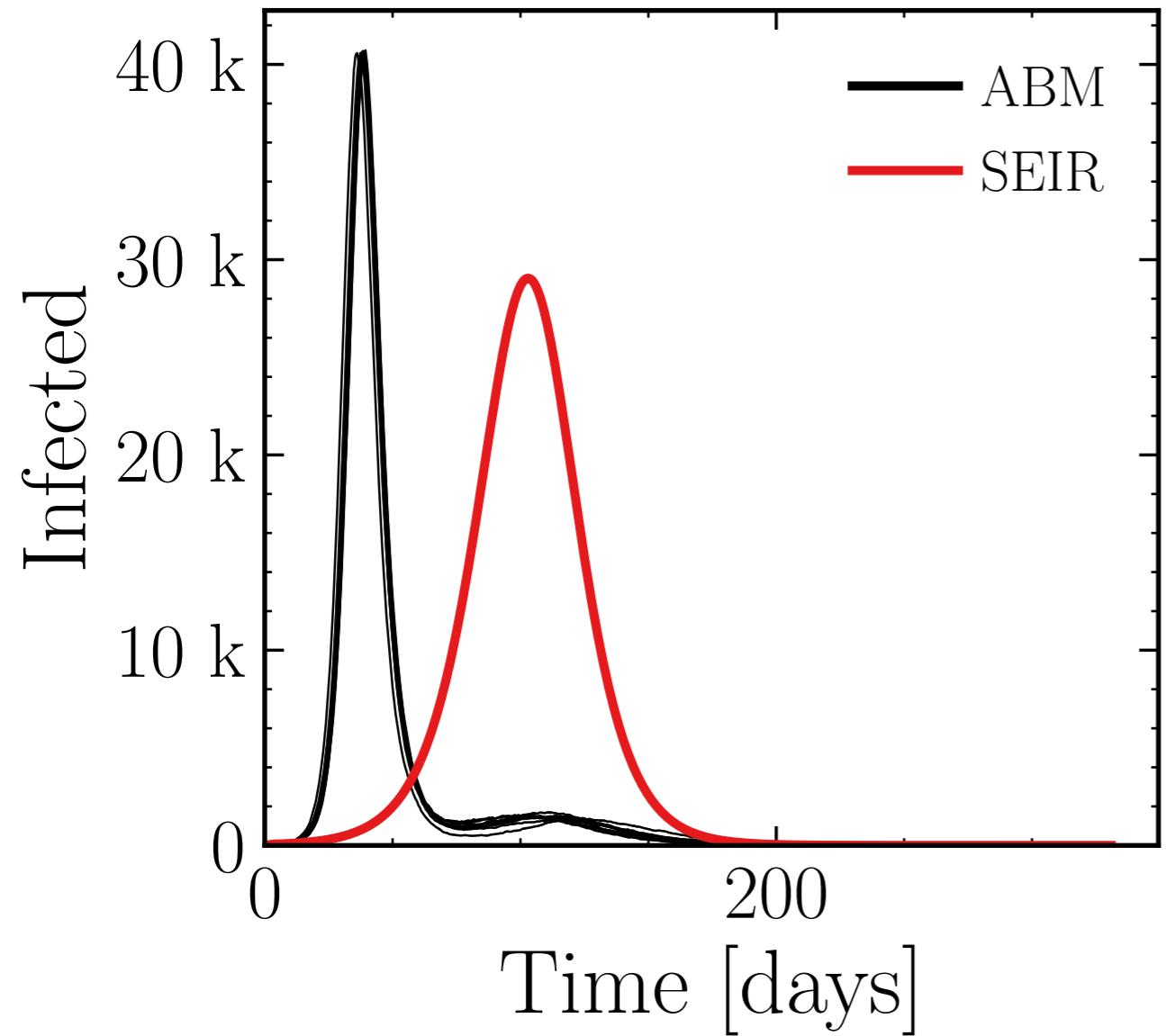
$$R_{\infty}^{\text{ABM}} = (200 \pm 0.076\%) \cdot 10^3$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.005$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (40.52 \pm 0.14\%) \cdot 10^3$$

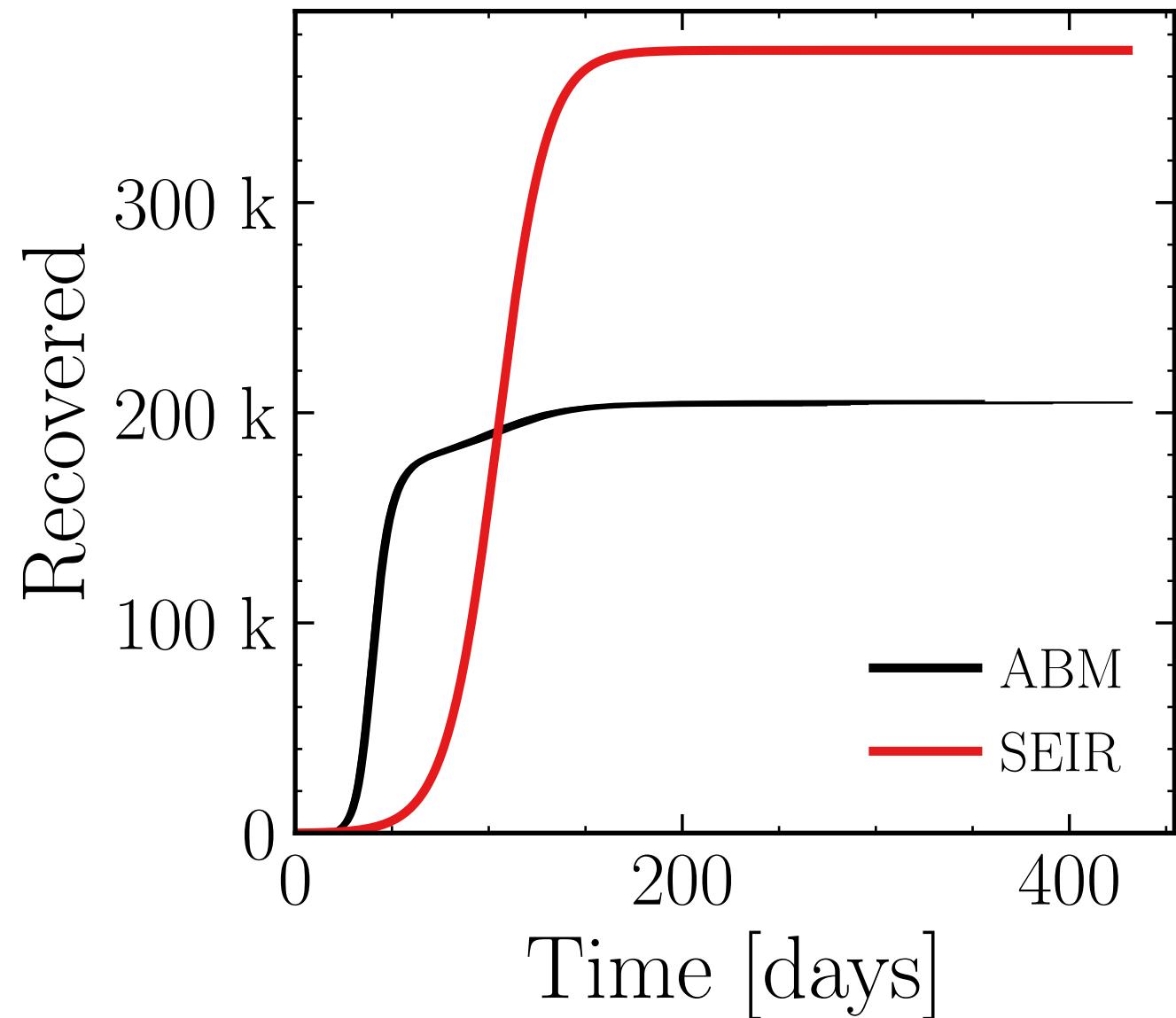
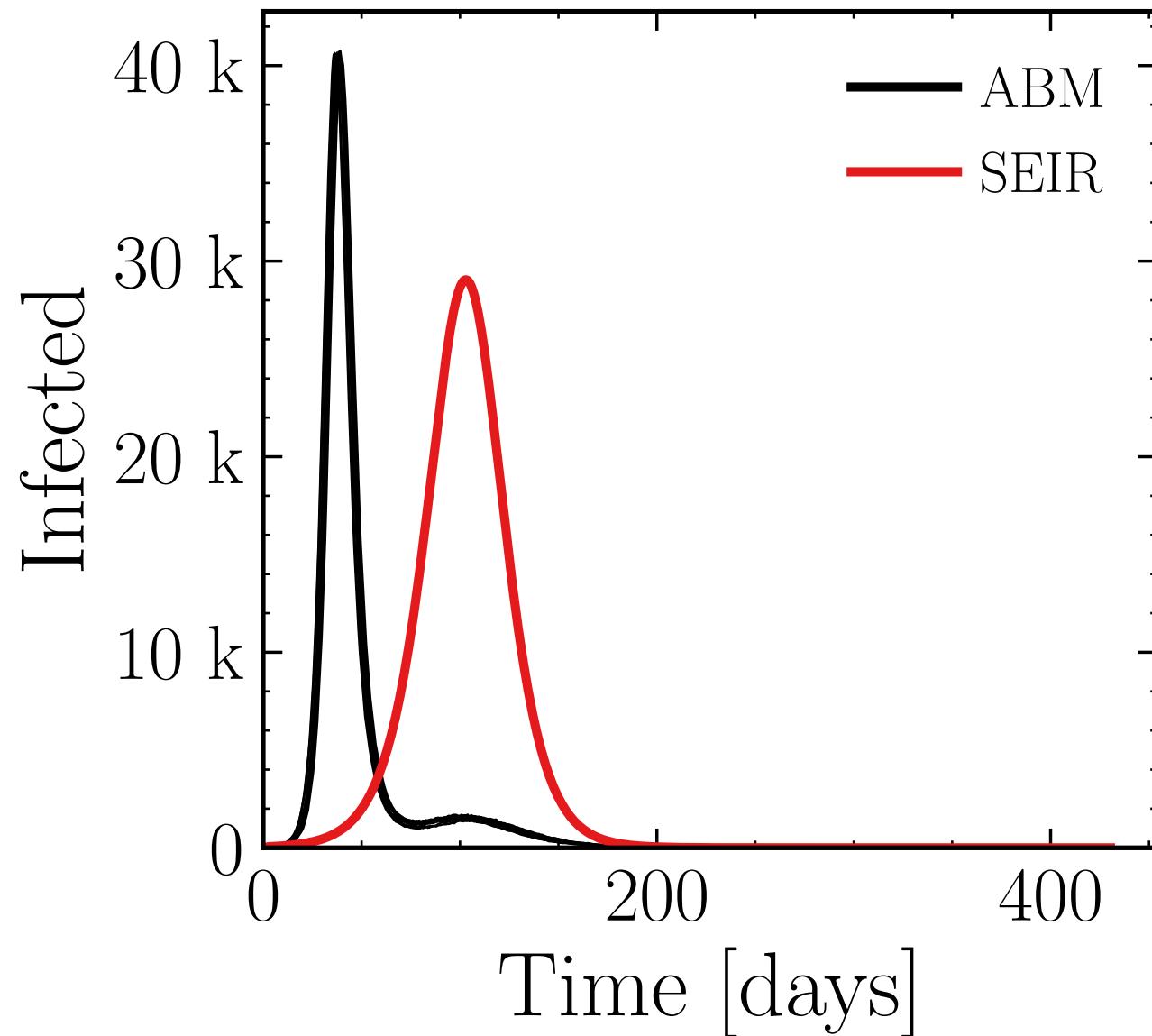
$$R_\infty^{\text{ABM}} = (202 \pm 0.13\%) \cdot 10^3$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.01$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (40.54 \pm 0.13\%) \cdot 10^3$$

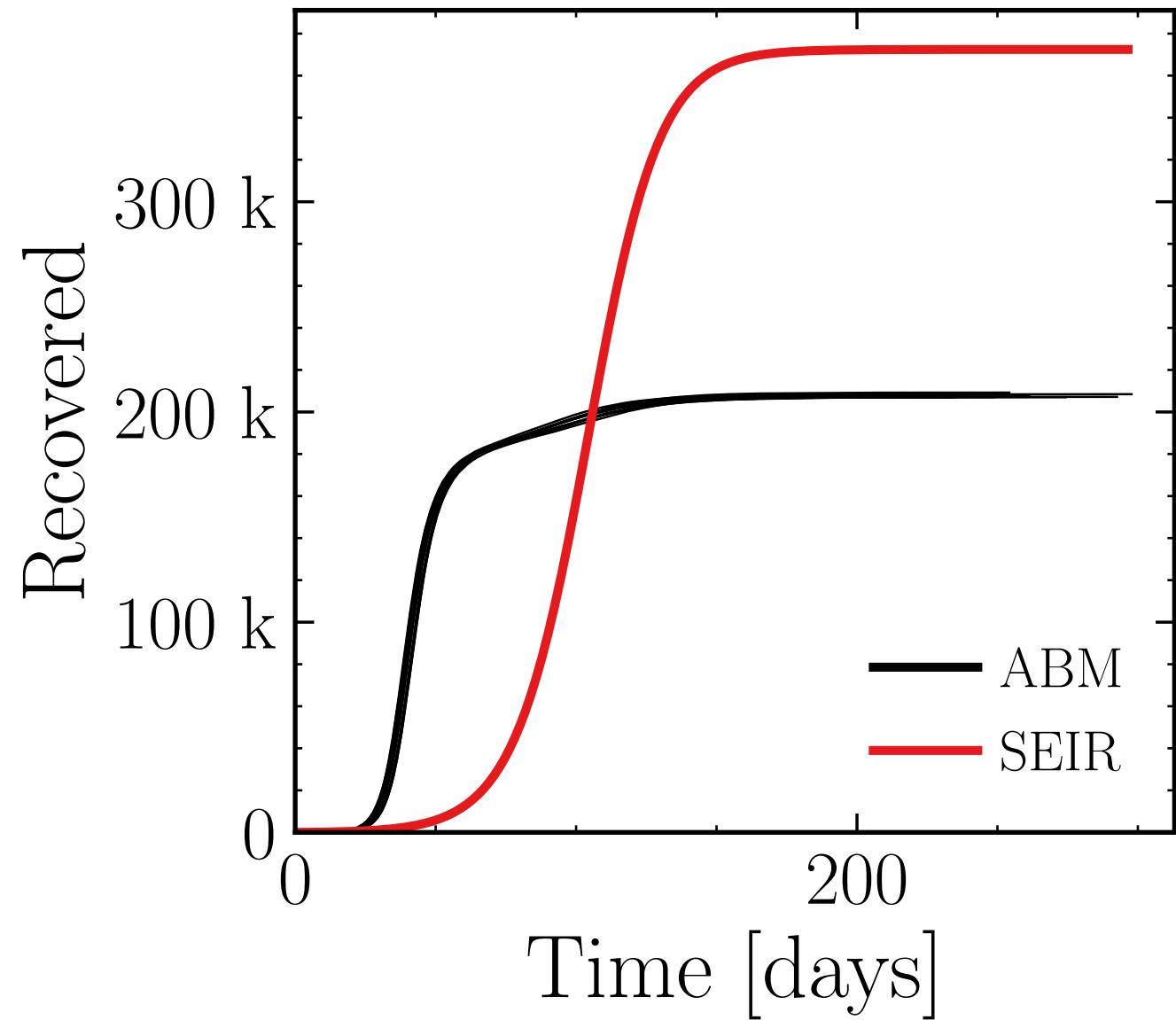
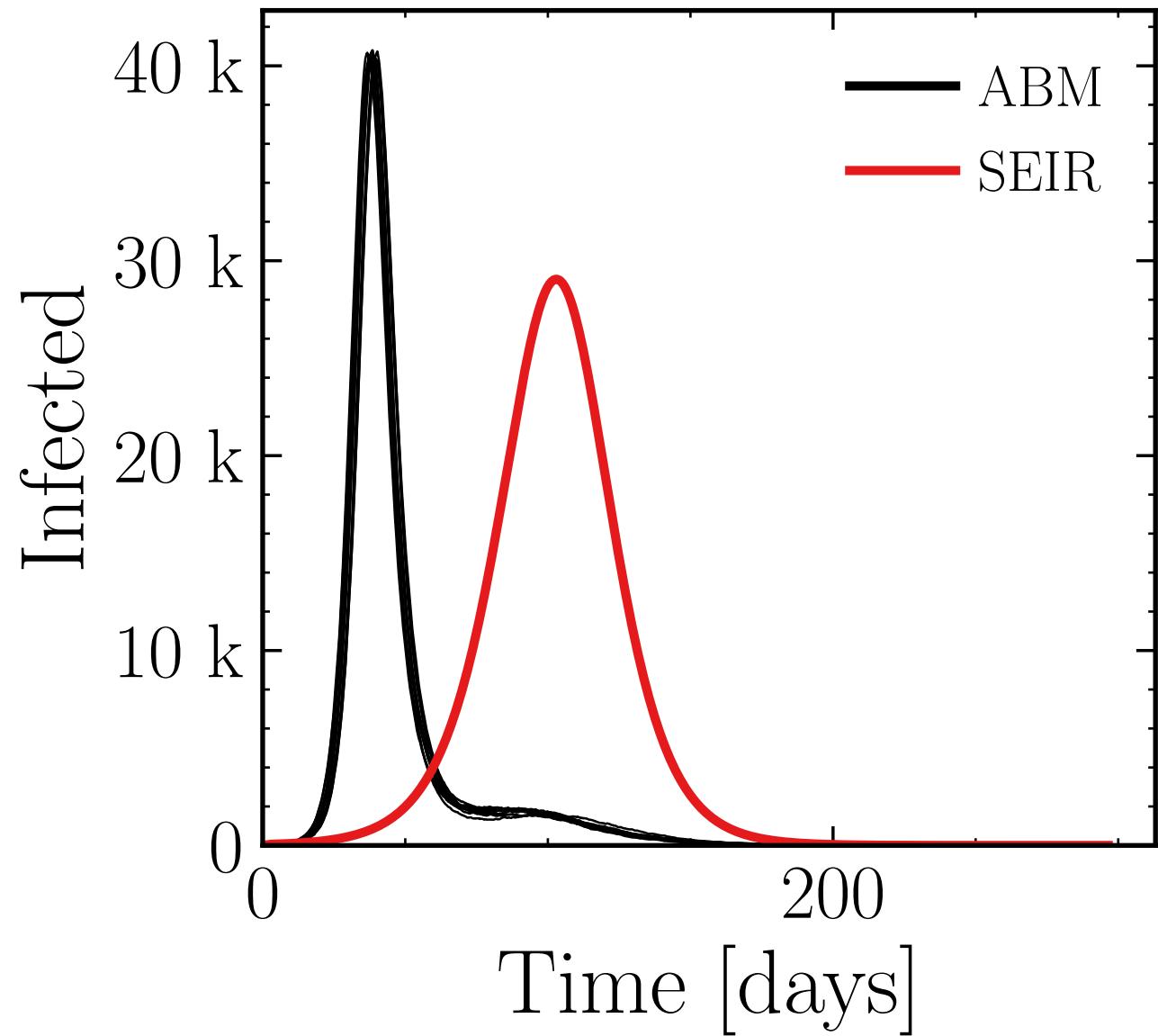
$$R_\infty^{\text{ABM}} = (204.4 \pm 0.087\%) \cdot 10^3$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.02$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

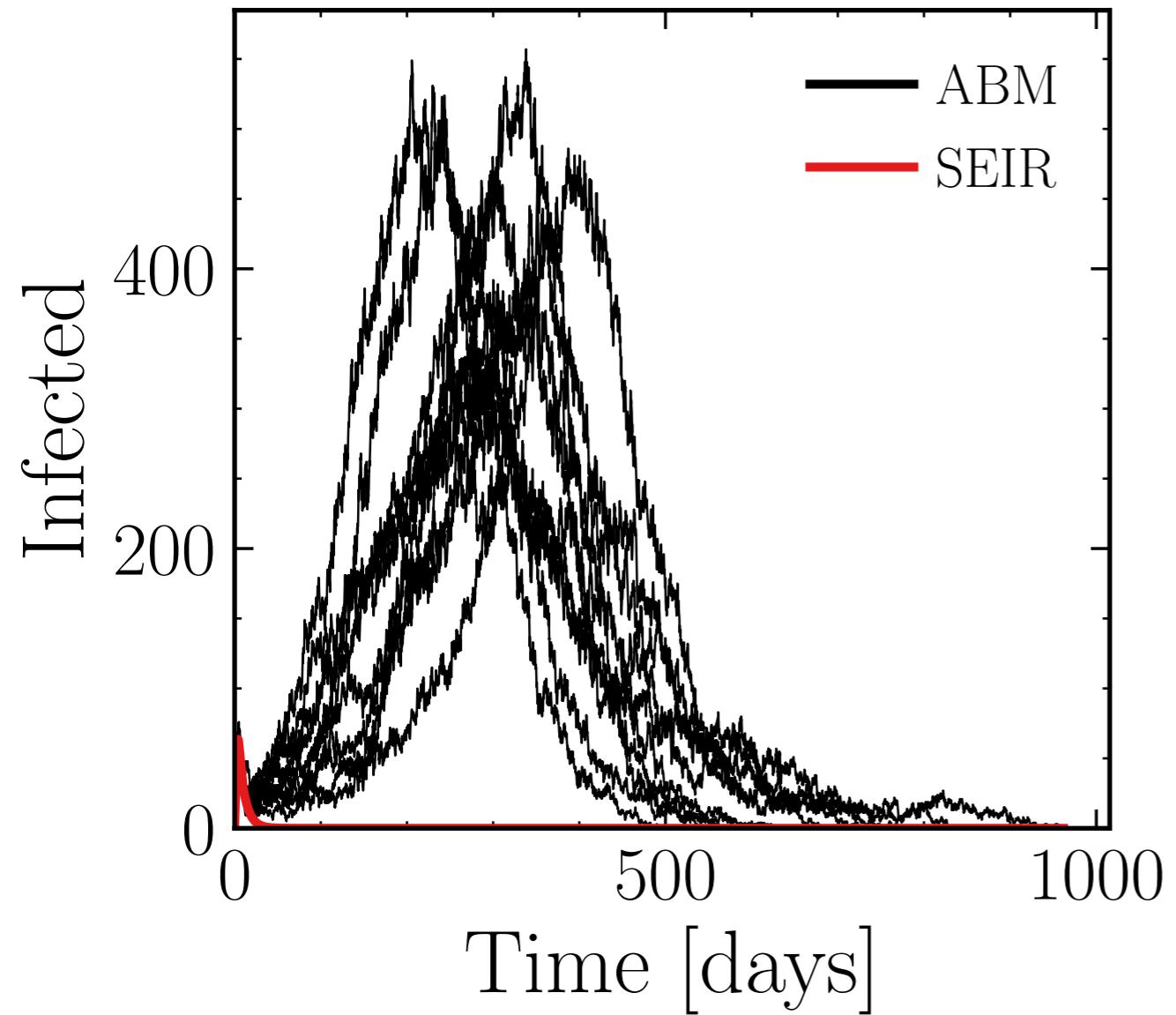
$$I_{\max}^{\text{ABM}} = (40.6 \pm 0.12\%) \cdot 10^3$$

$$R_\infty^{\text{ABM}} = (207.8 \pm 0.12\%) \cdot 10^3$$

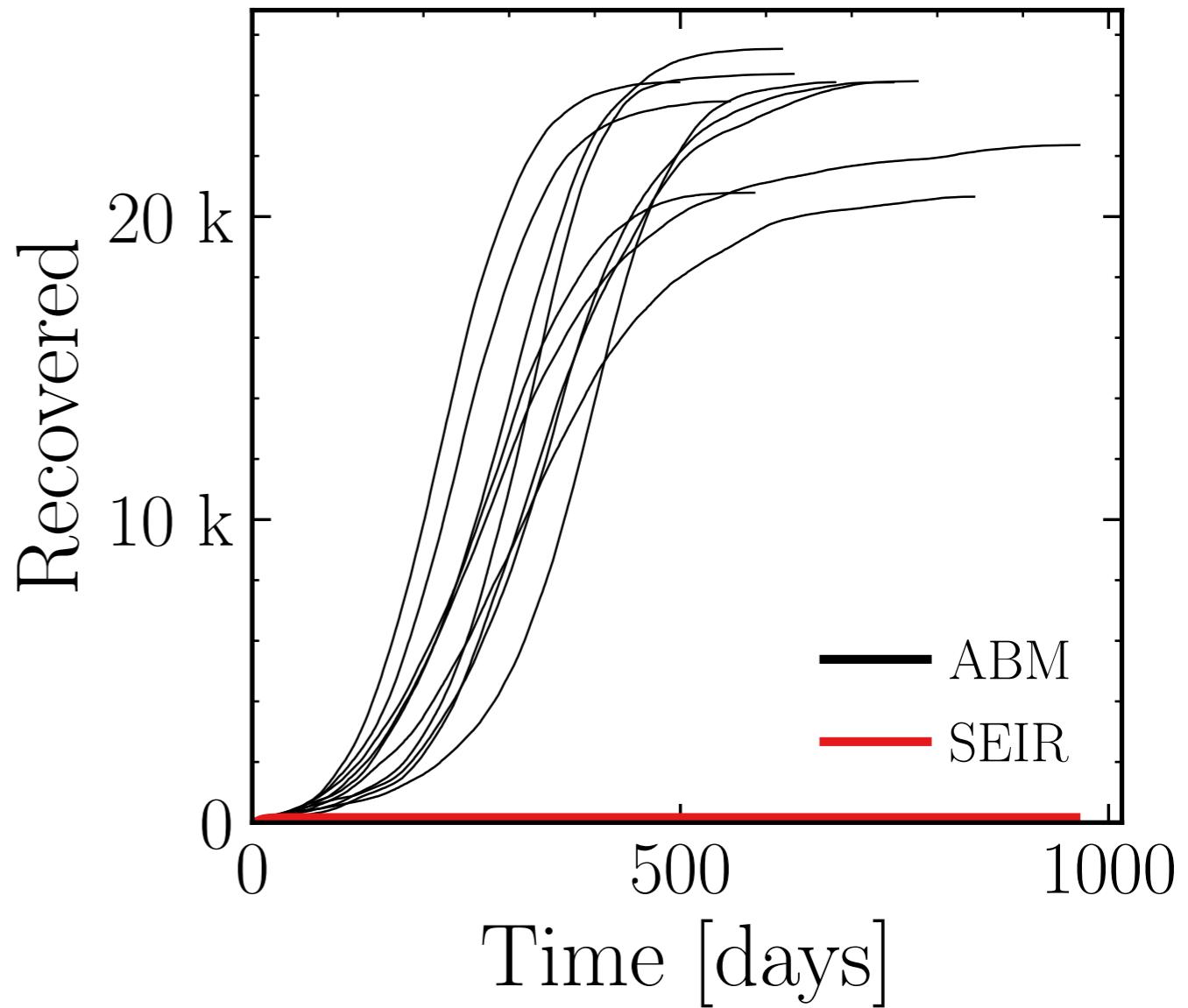


$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 10.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (440 \pm 6.3\%)$$

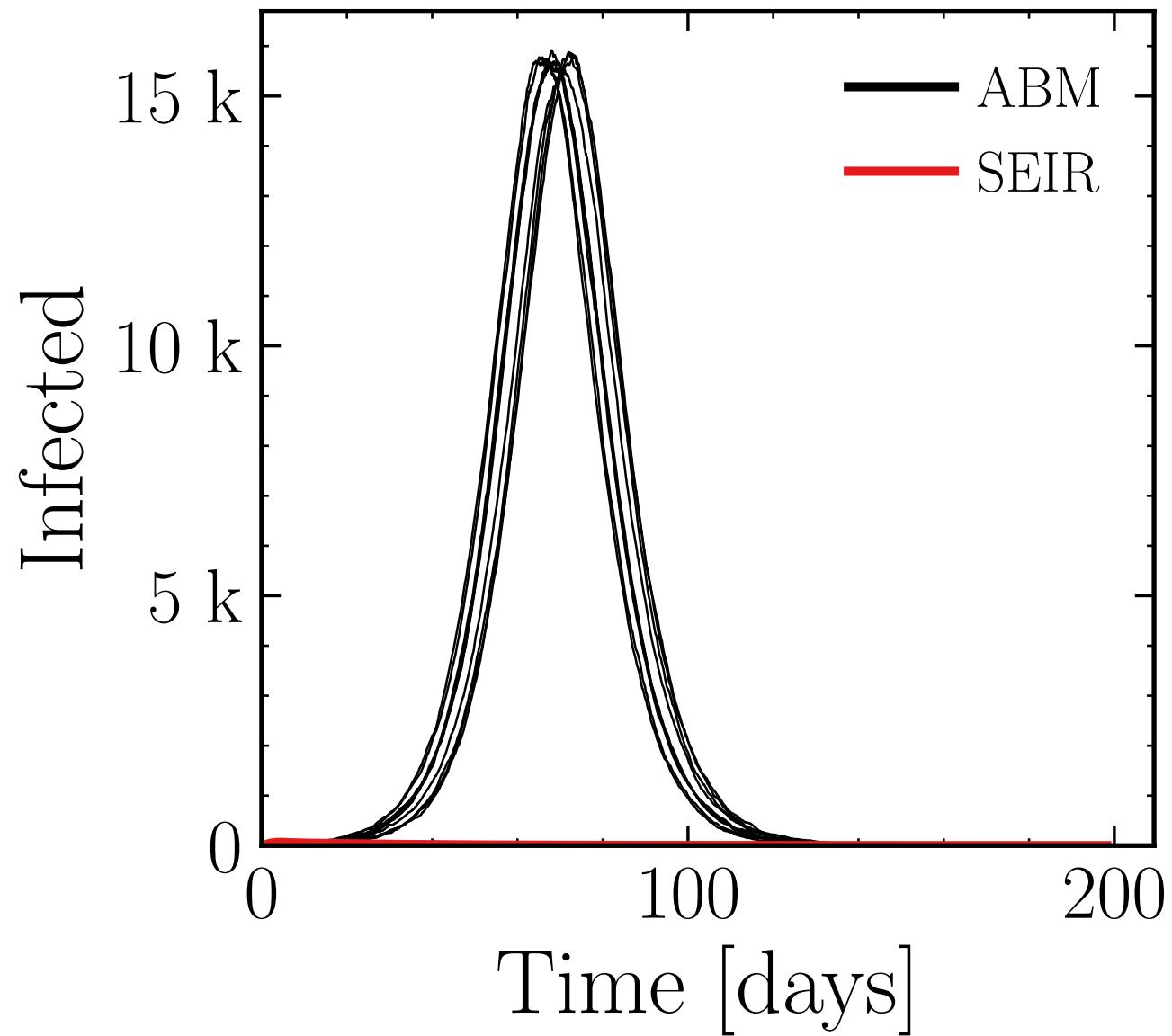


$$R_\infty^{\text{ABM}} = (23.6 \pm 2.2\%) \cdot 10^3$$

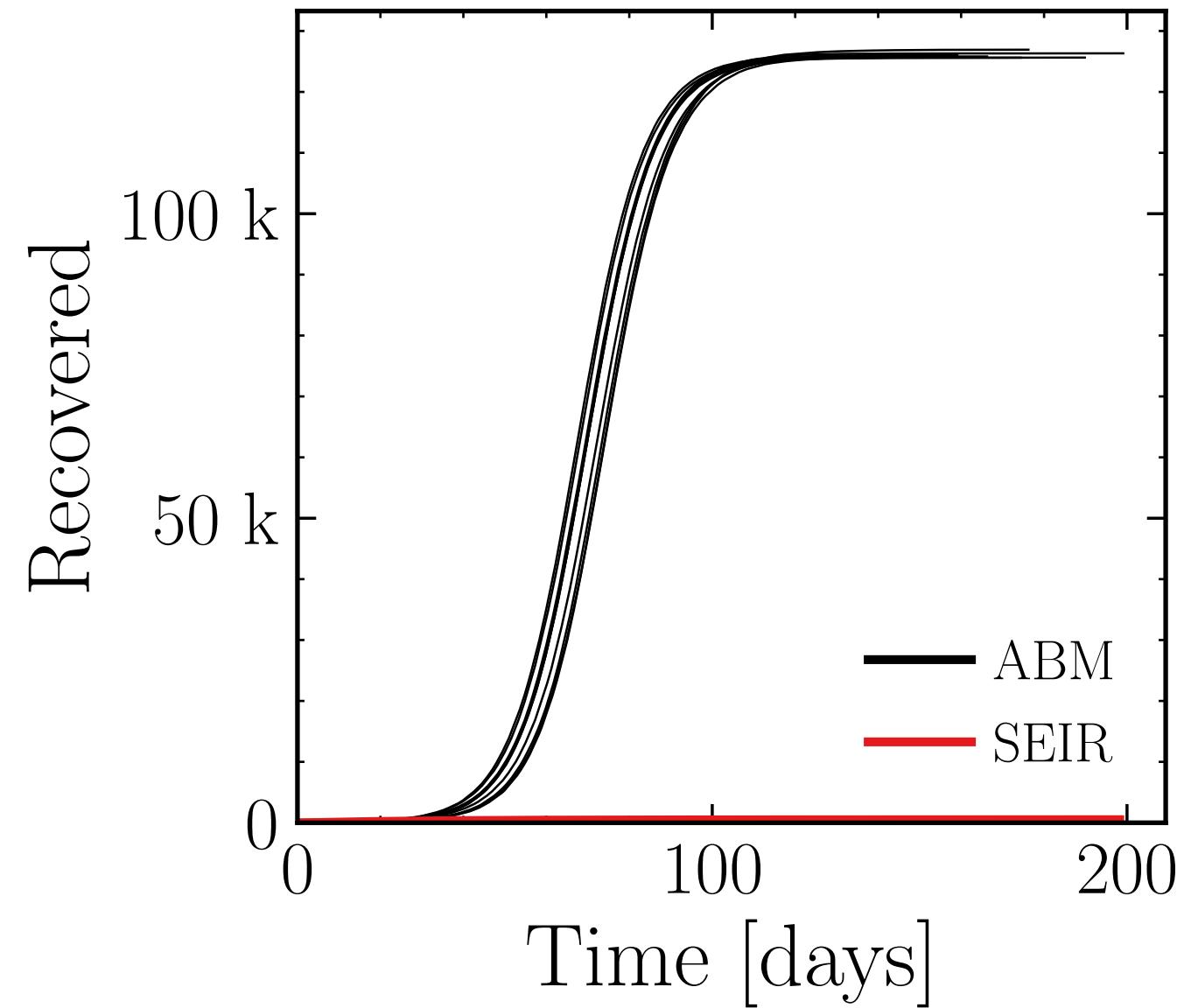


$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 10.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.02$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (15.75 \pm 0.22\%) \cdot 10^3$$



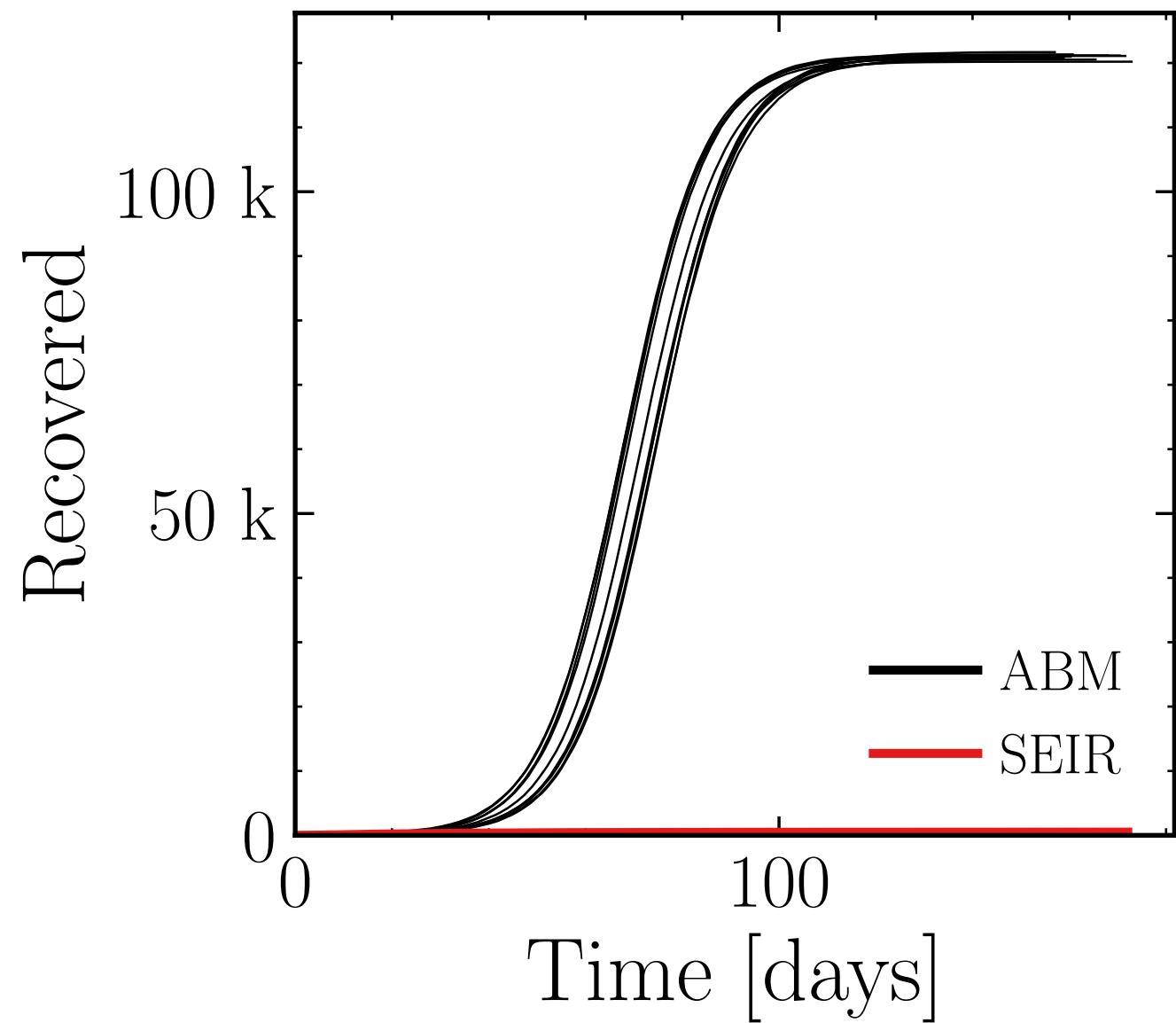
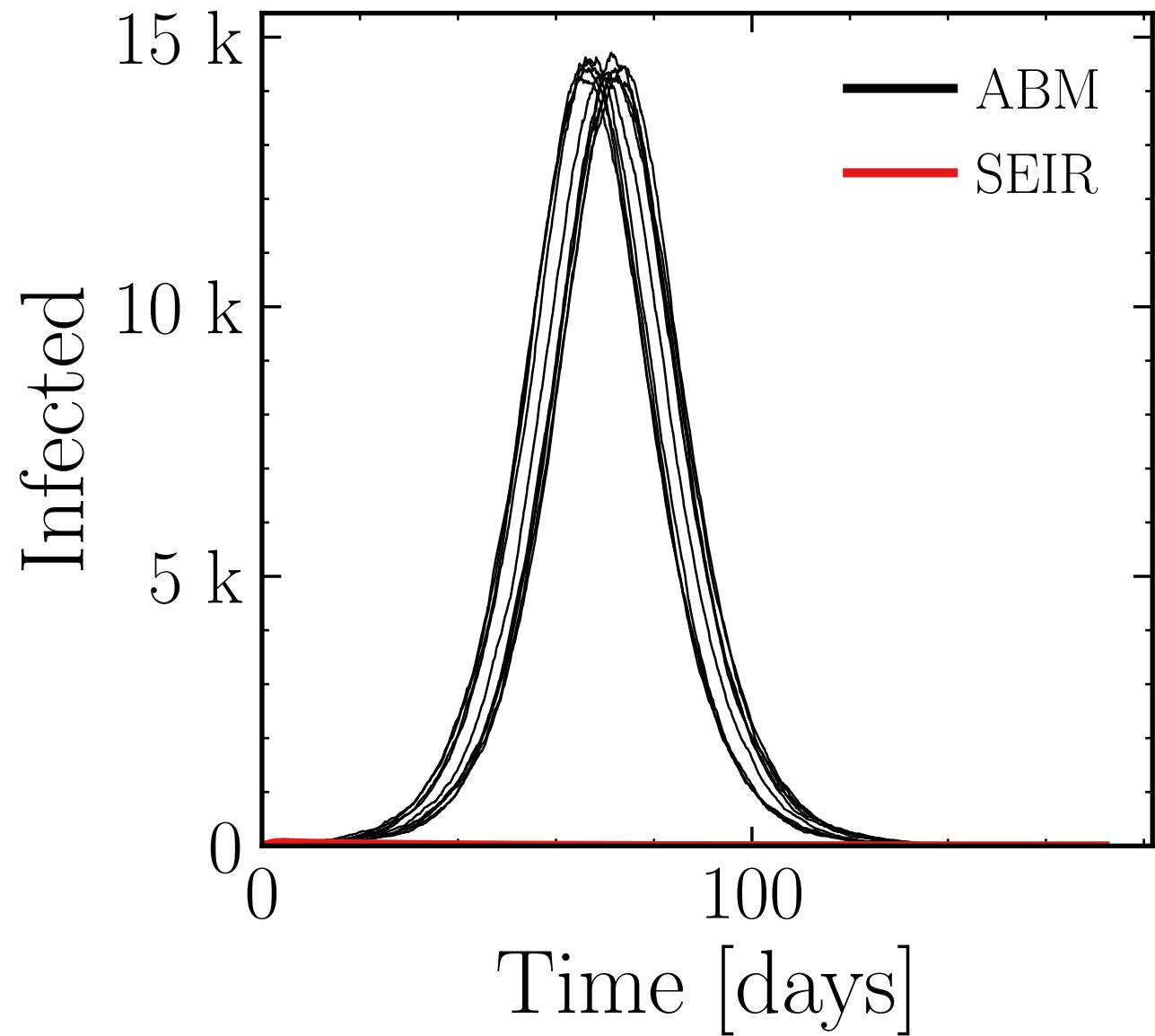
$$R_{\infty}^{\text{ABM}} = (126 \pm 0.095\%) \cdot 10^3$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 10.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.02$ ,  $\sigma_\beta = 1.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (14.43 \pm 0.36\%) \cdot 10^3$$

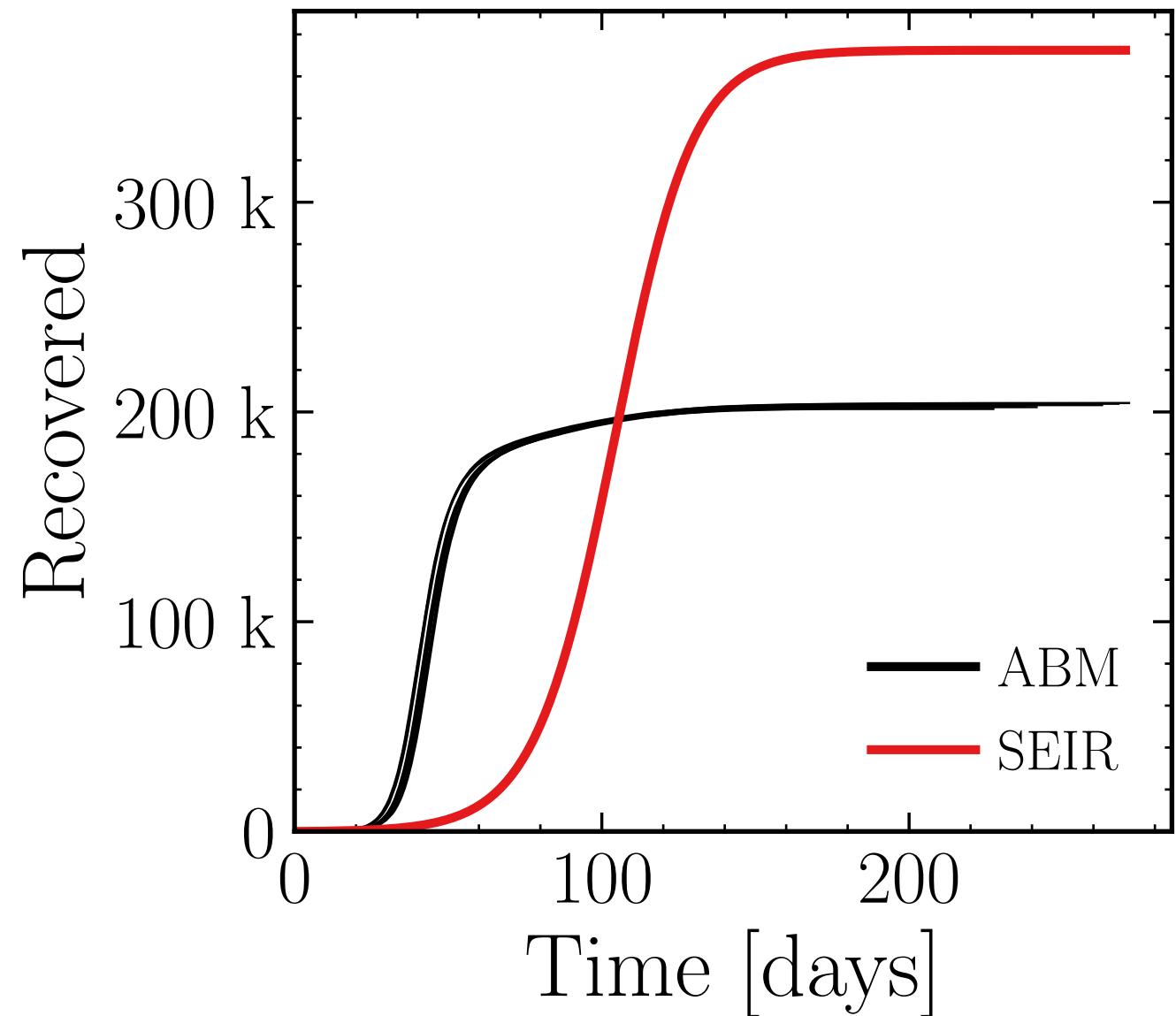
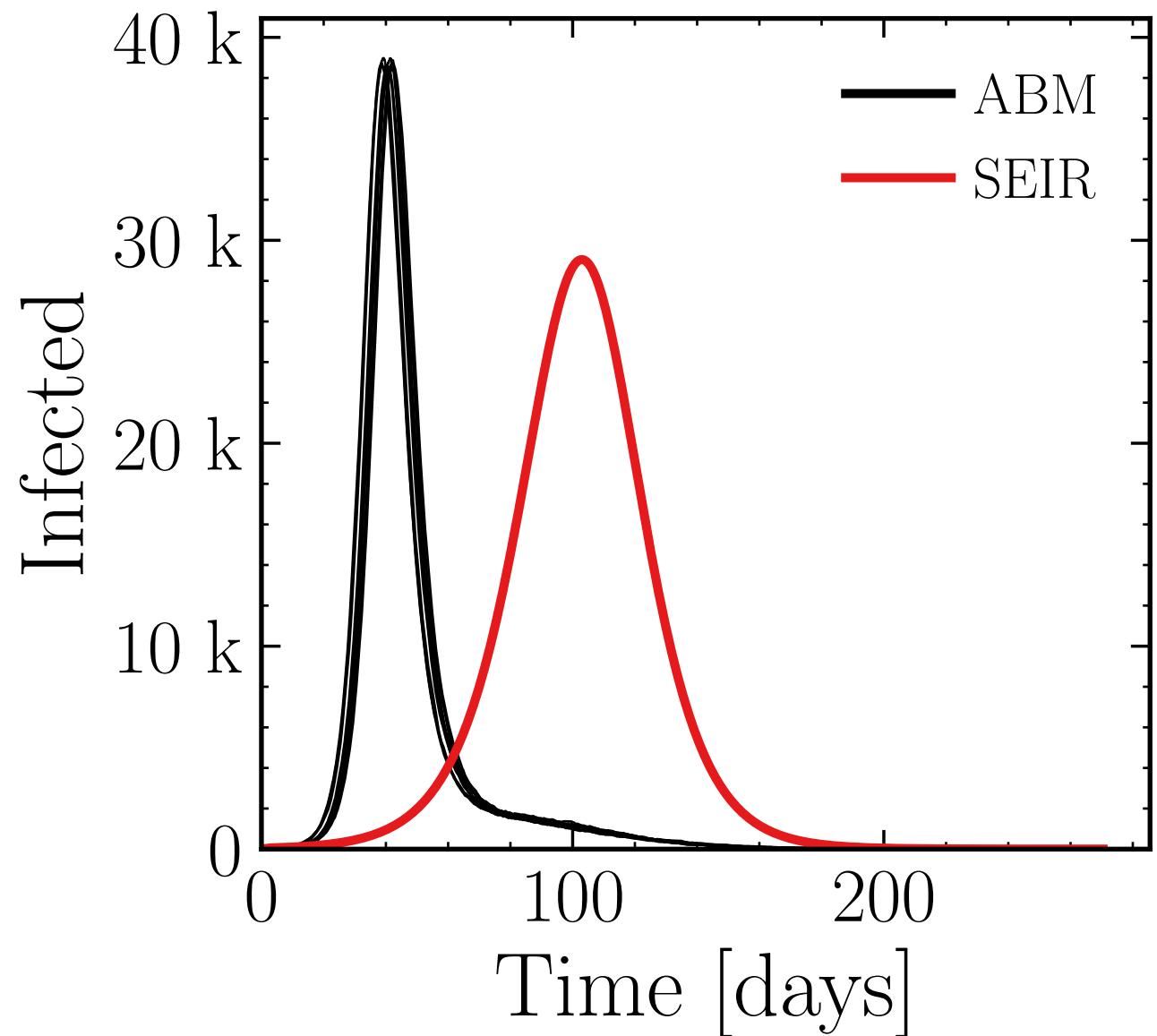
$$R_\infty^{\text{ABM}} = (121 \pm 0.11\%) \cdot 10^3$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 10.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.04$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (38.71 \pm 0.16\%) \cdot 10^3$$

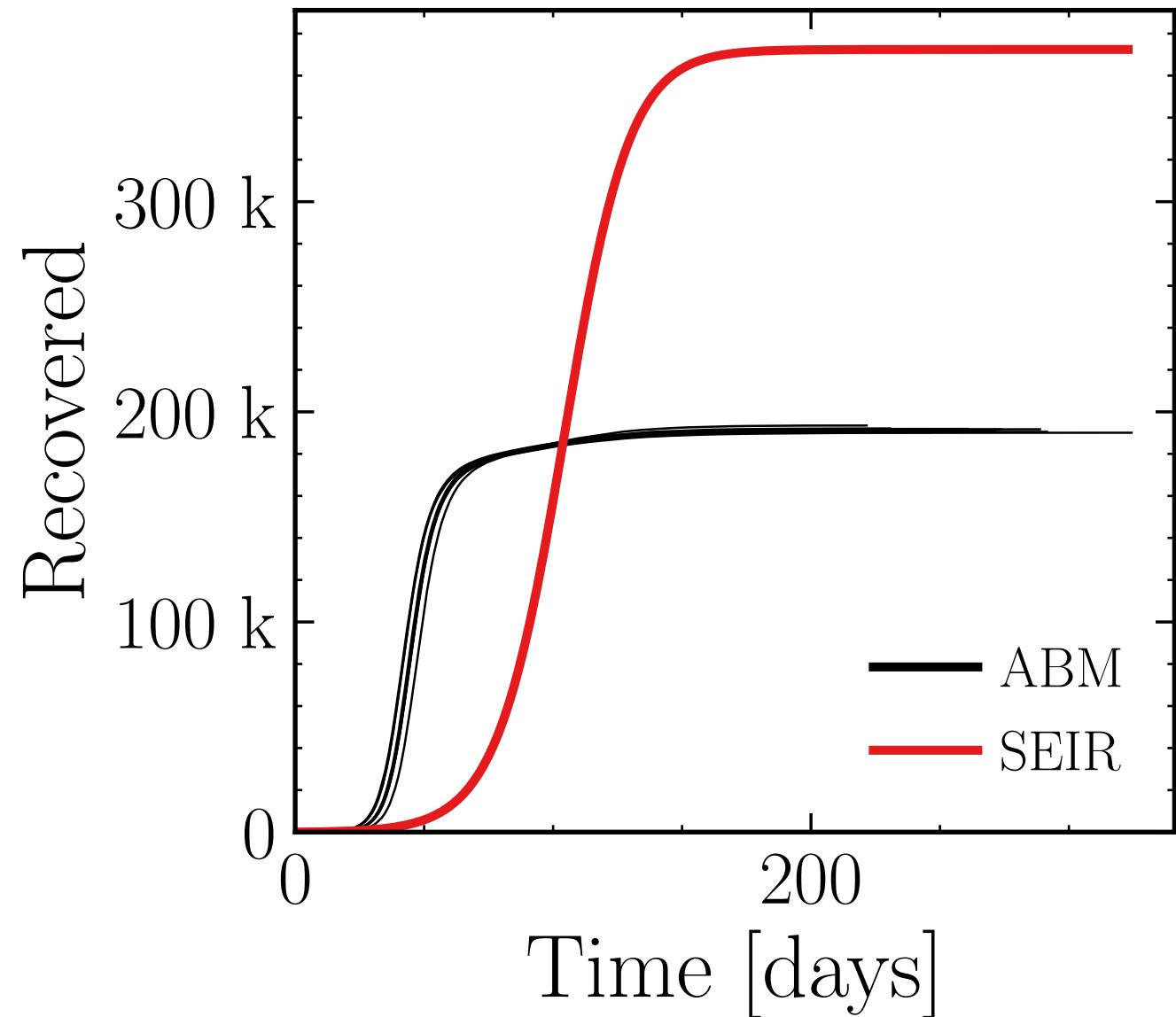
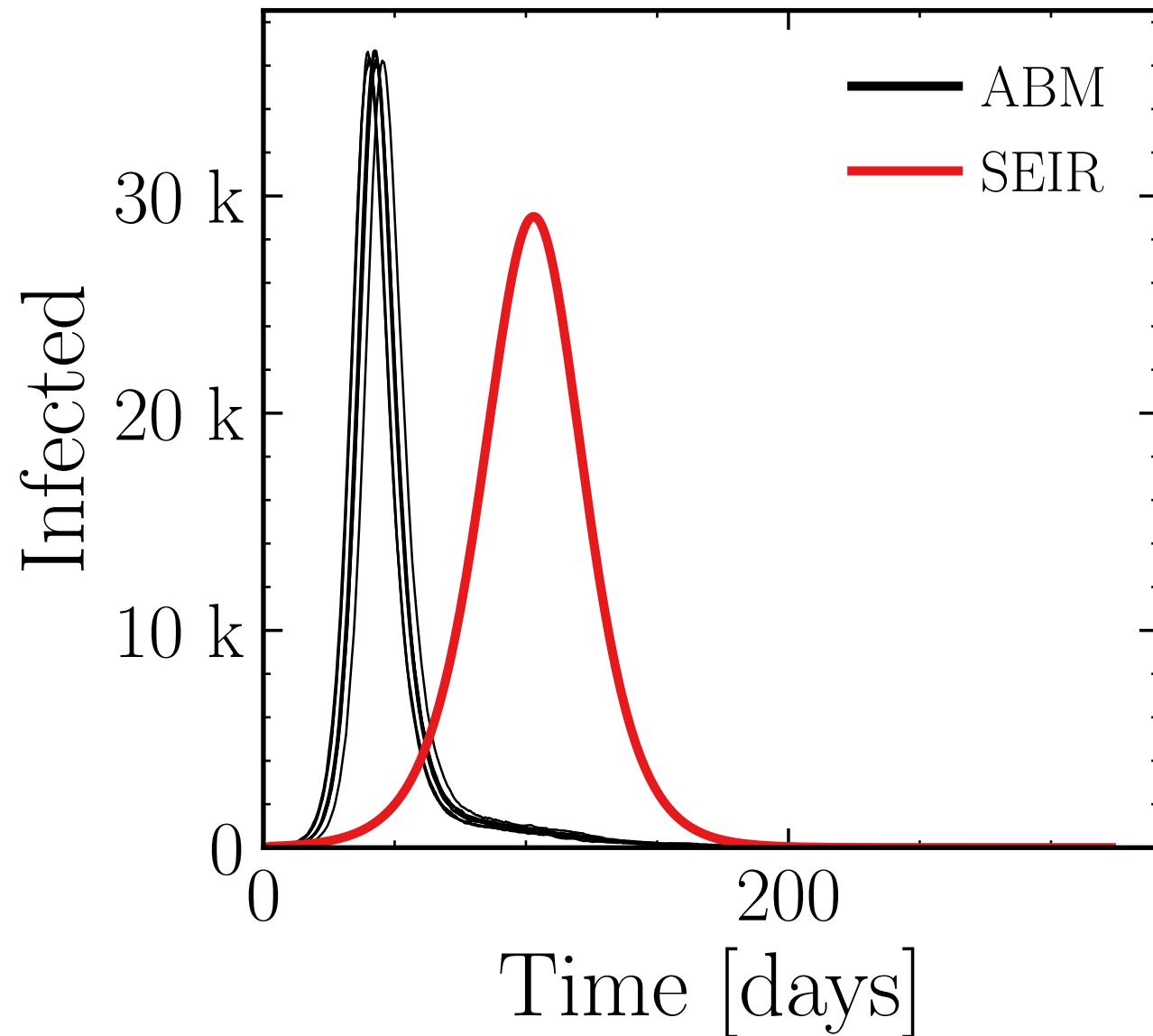
$$R_{\infty}^{\text{ABM}} = (203 \pm 0.13\%) \cdot 10^3$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 10.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.04$ ,  $\sigma_\beta = 1.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

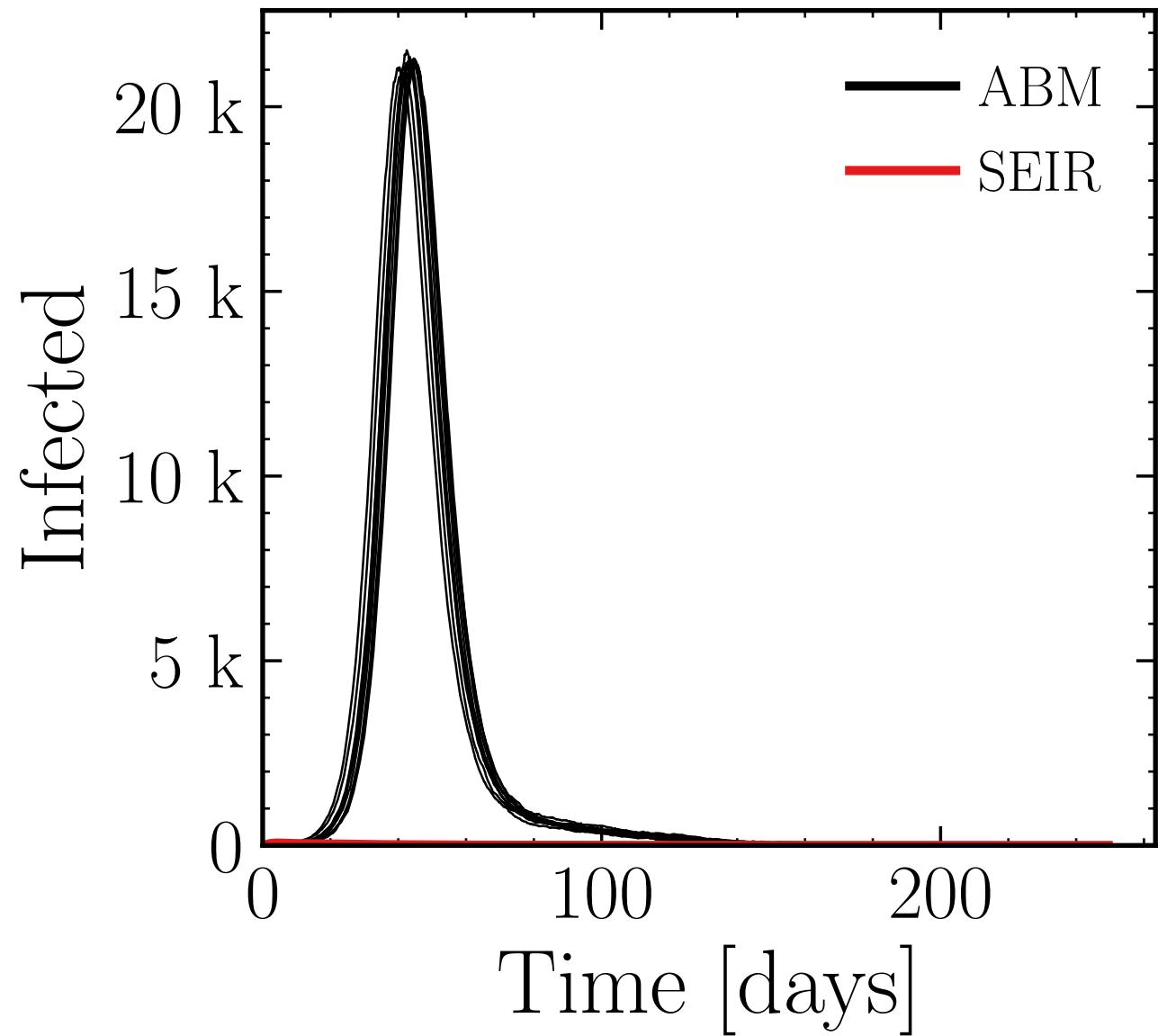
$$I_{\max}^{\text{ABM}} = (36.38 \pm 0.19\%) \cdot 10^3$$

$$R_\infty^{\text{ABM}} = (191.4 \pm 0.16\%) \cdot 10^3$$

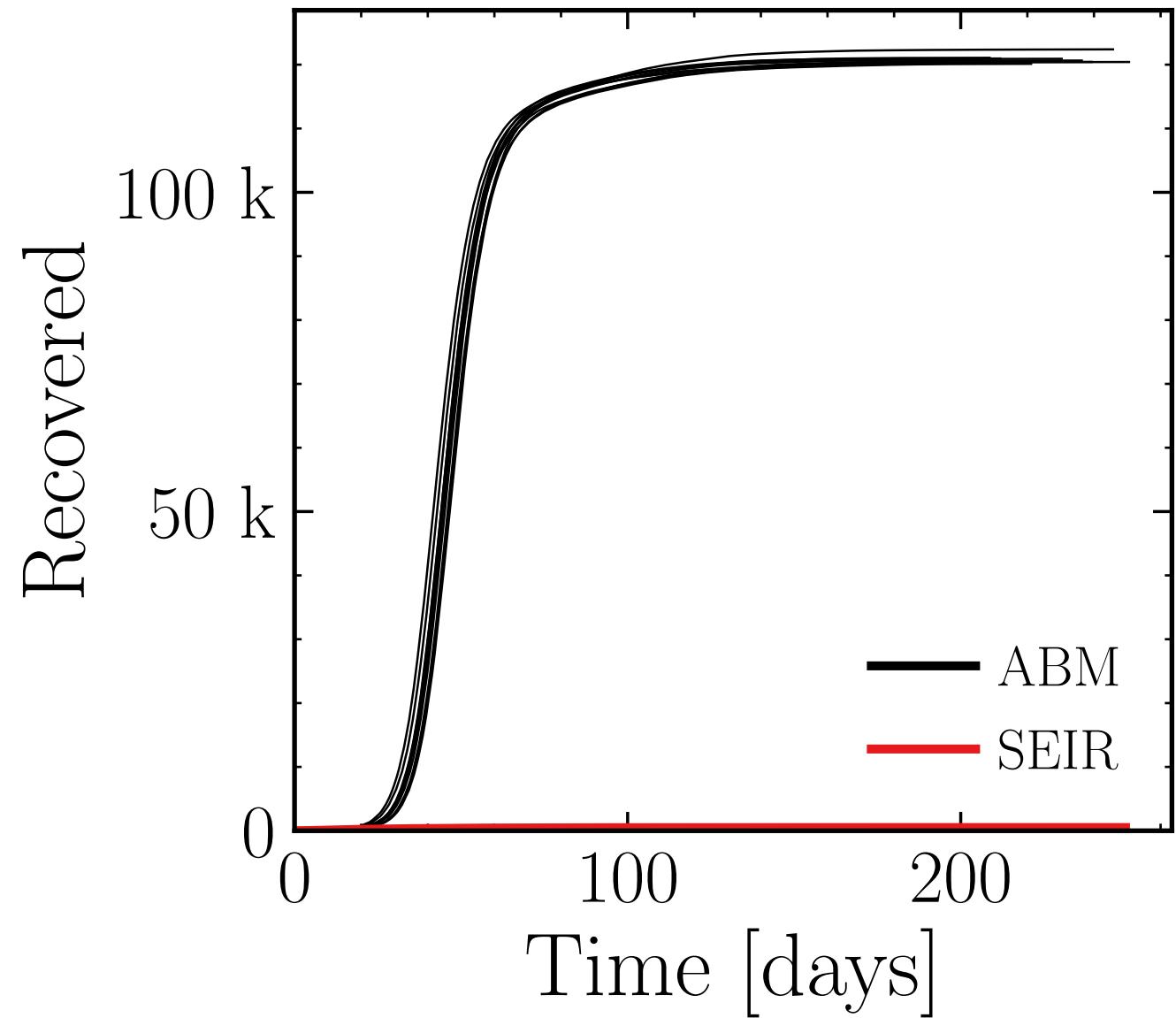


$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 10.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.02$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (21.24 \pm 0.18\%) \cdot 10^3$$



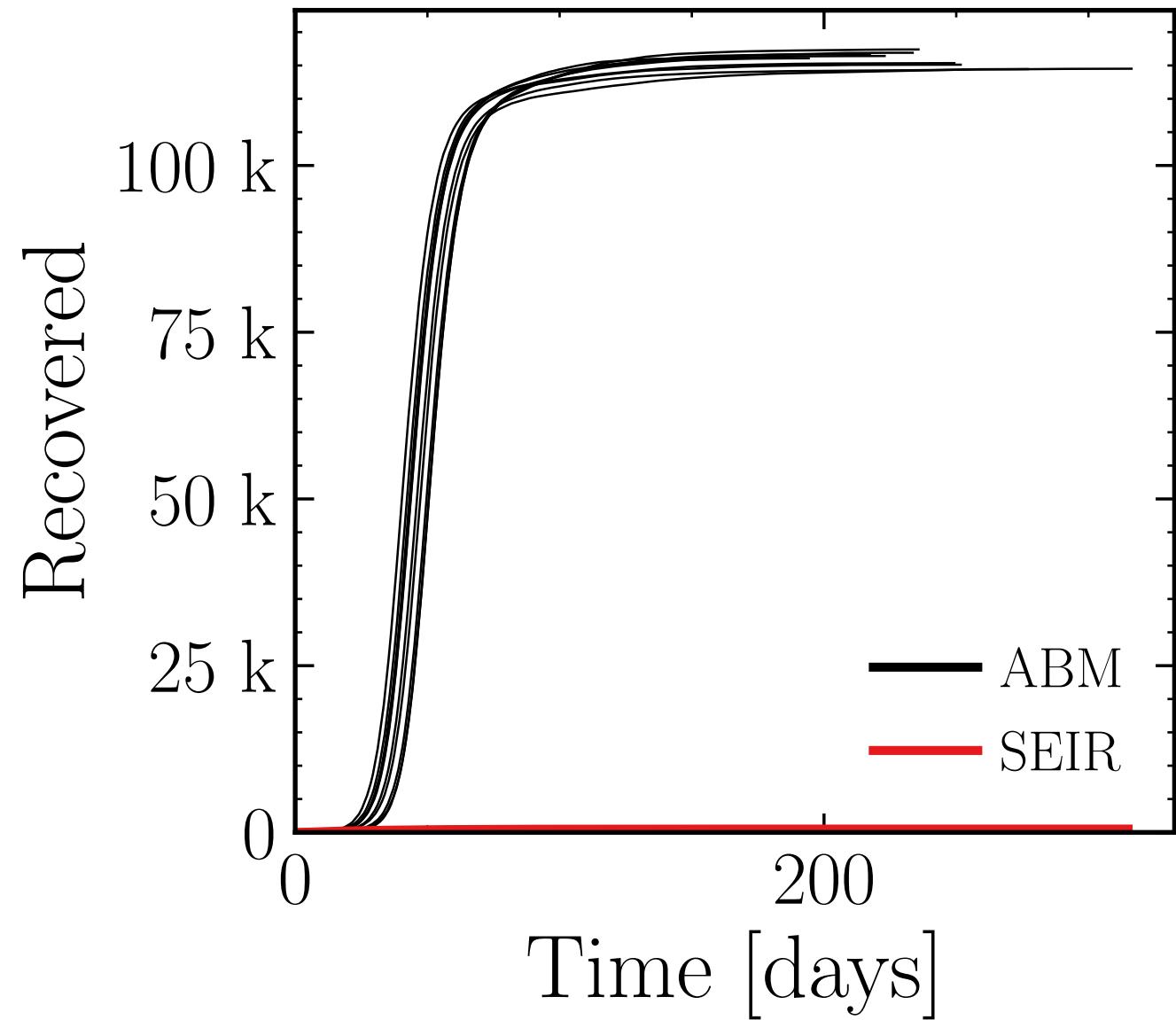
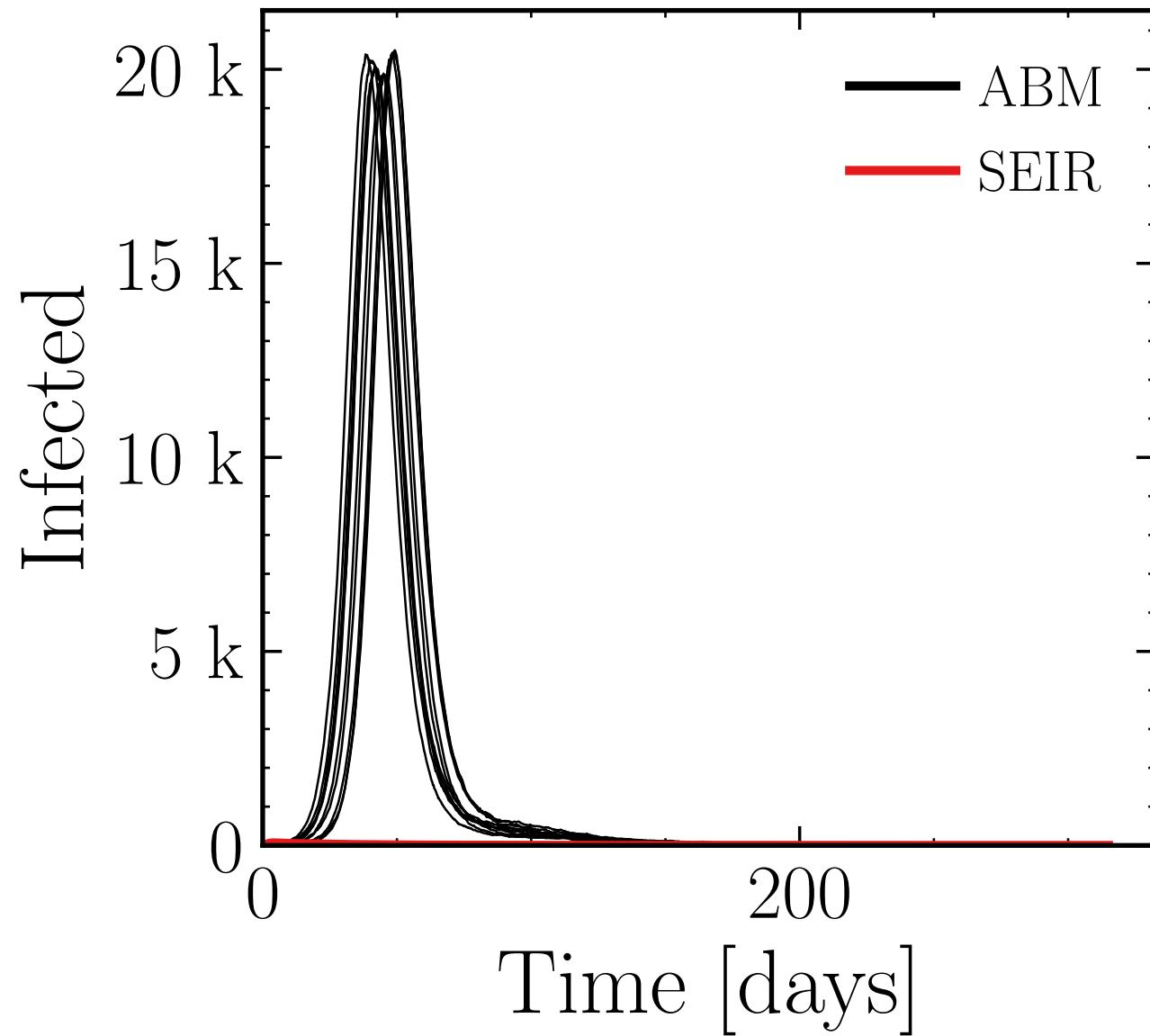
$$R_\infty^{\text{ABM}} = (120.8 \pm 0.16\%) \cdot 10^3$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 10.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.02$ ,  $\sigma_\beta = 1.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (20.19 \pm 0.34\%) \cdot 10^3$$

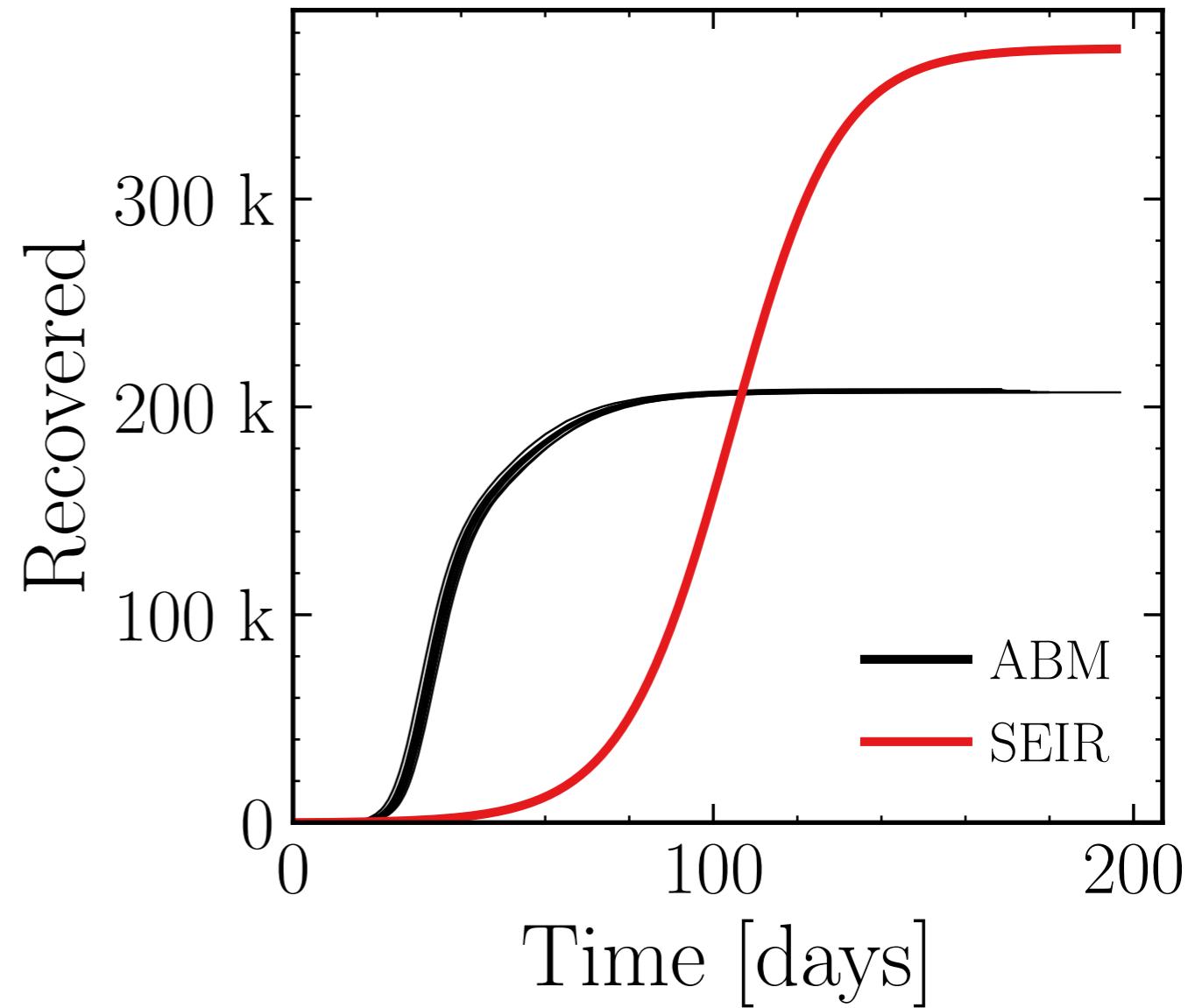
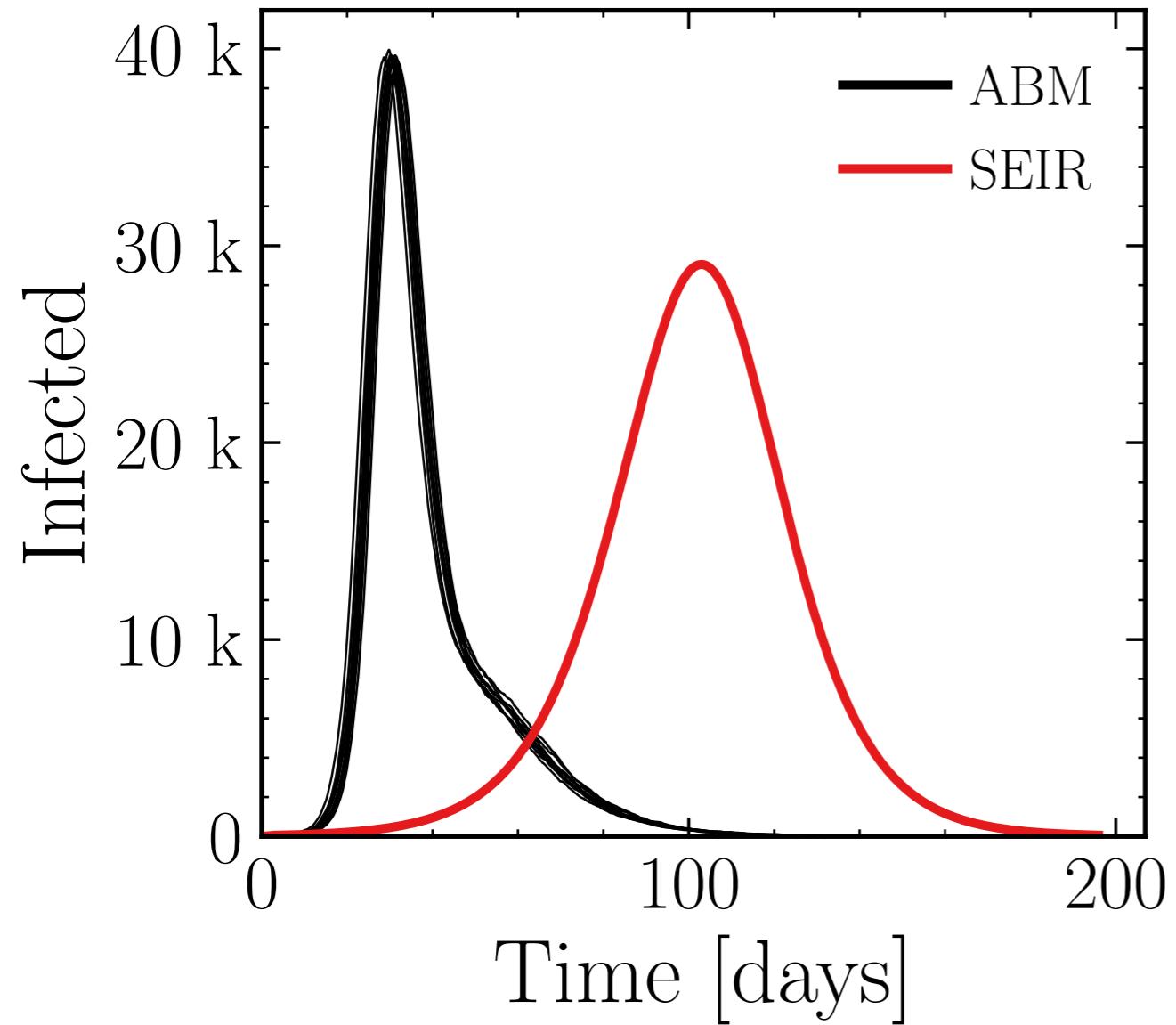
$$R_\infty^{\text{ABM}} = (115.9 \pm 0.26\%) \cdot 10^3$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 10.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.04$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (39.52 \pm 0.19\%) \cdot 10^3$$

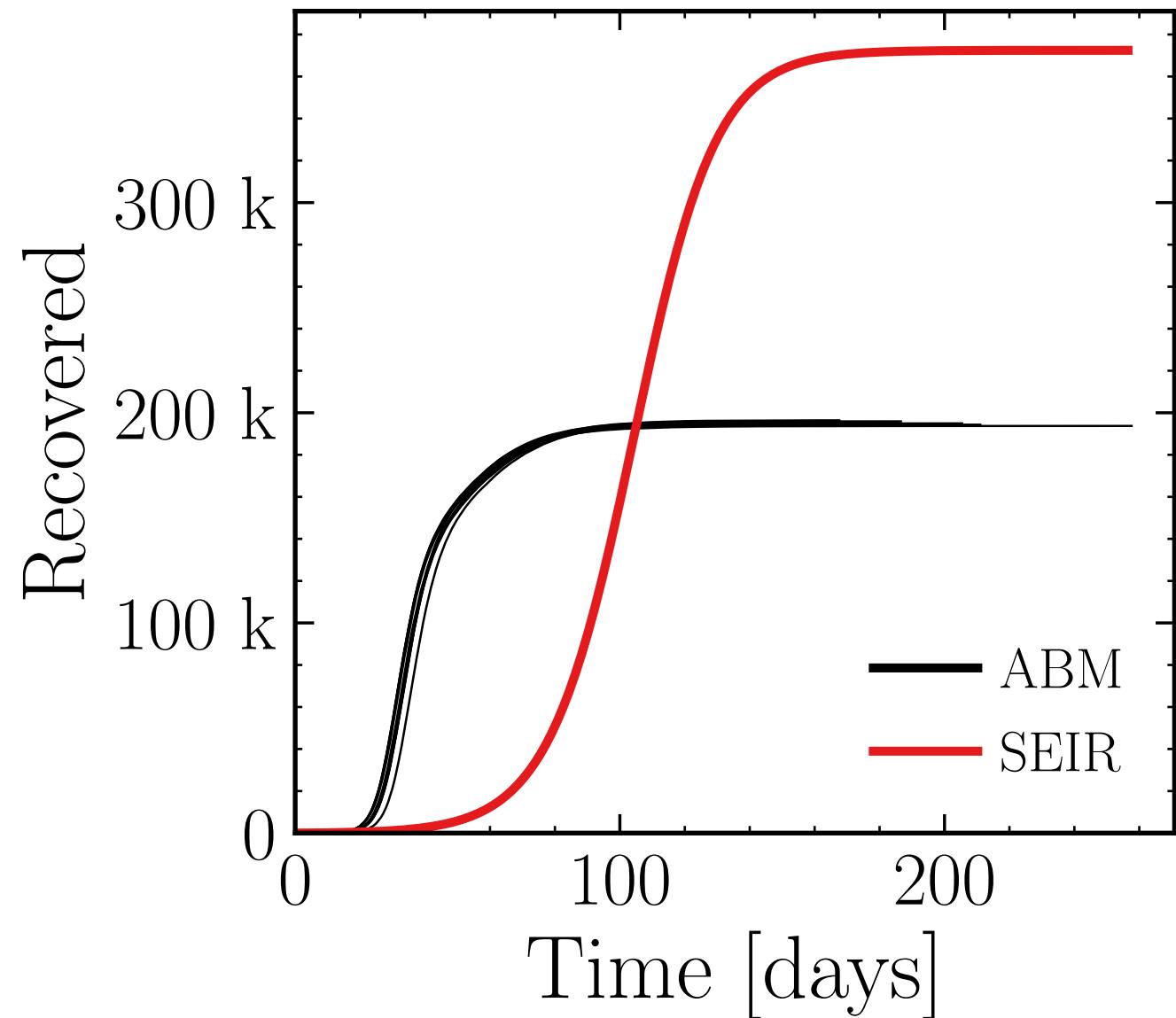
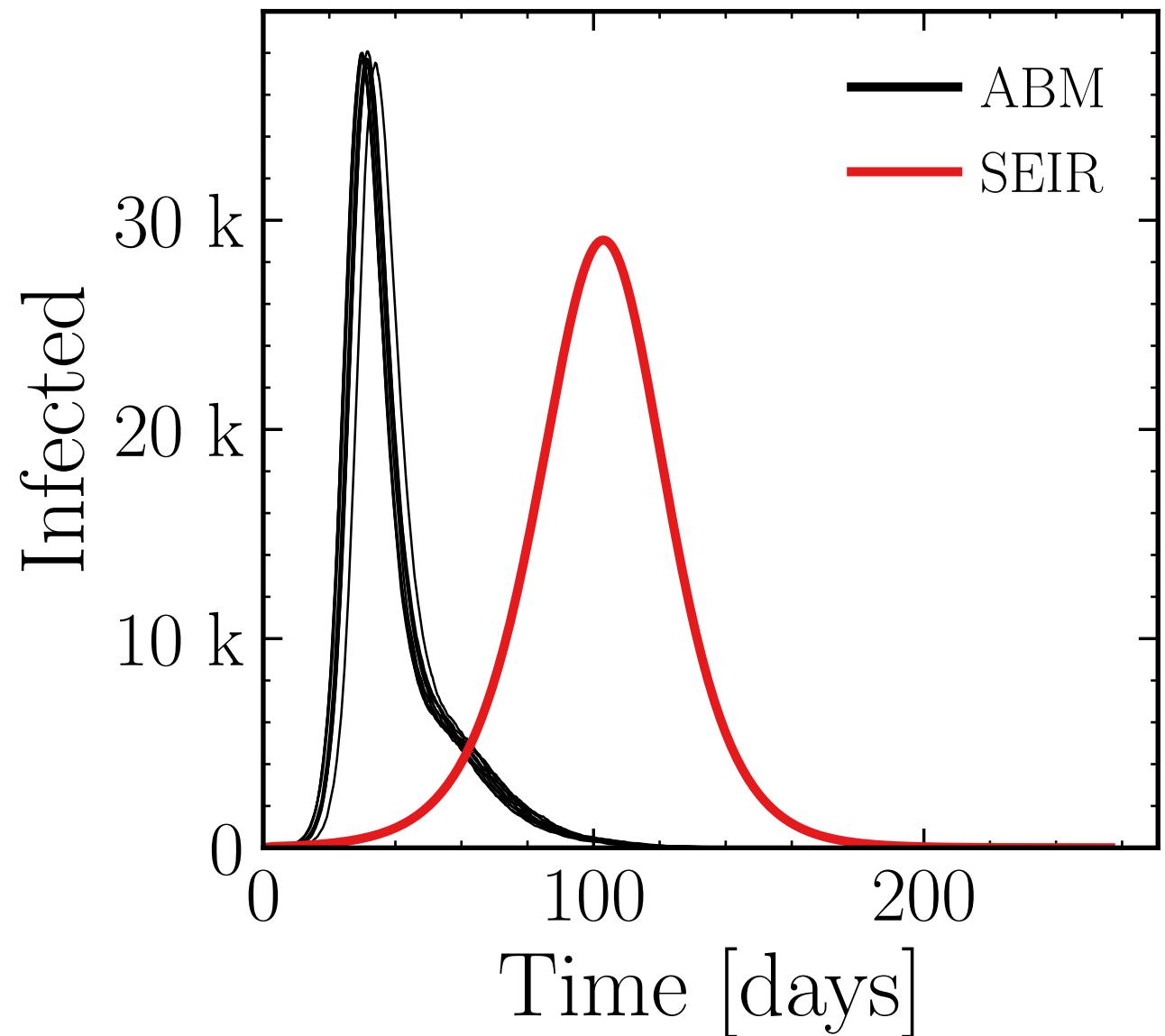
$$R_\infty^{\text{ABM}} = (207.6 \pm 0.073\%) \cdot 10^3$$



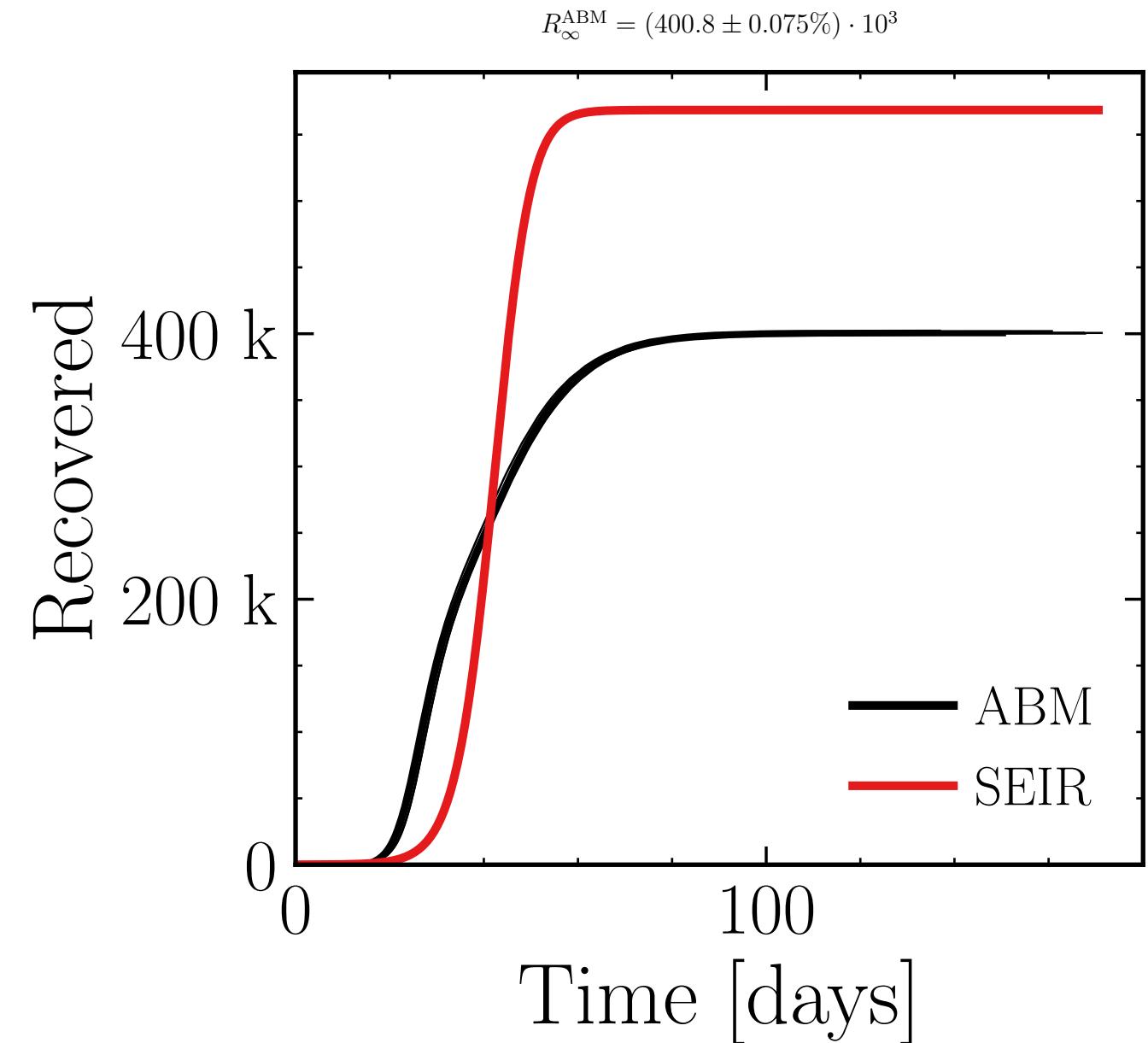
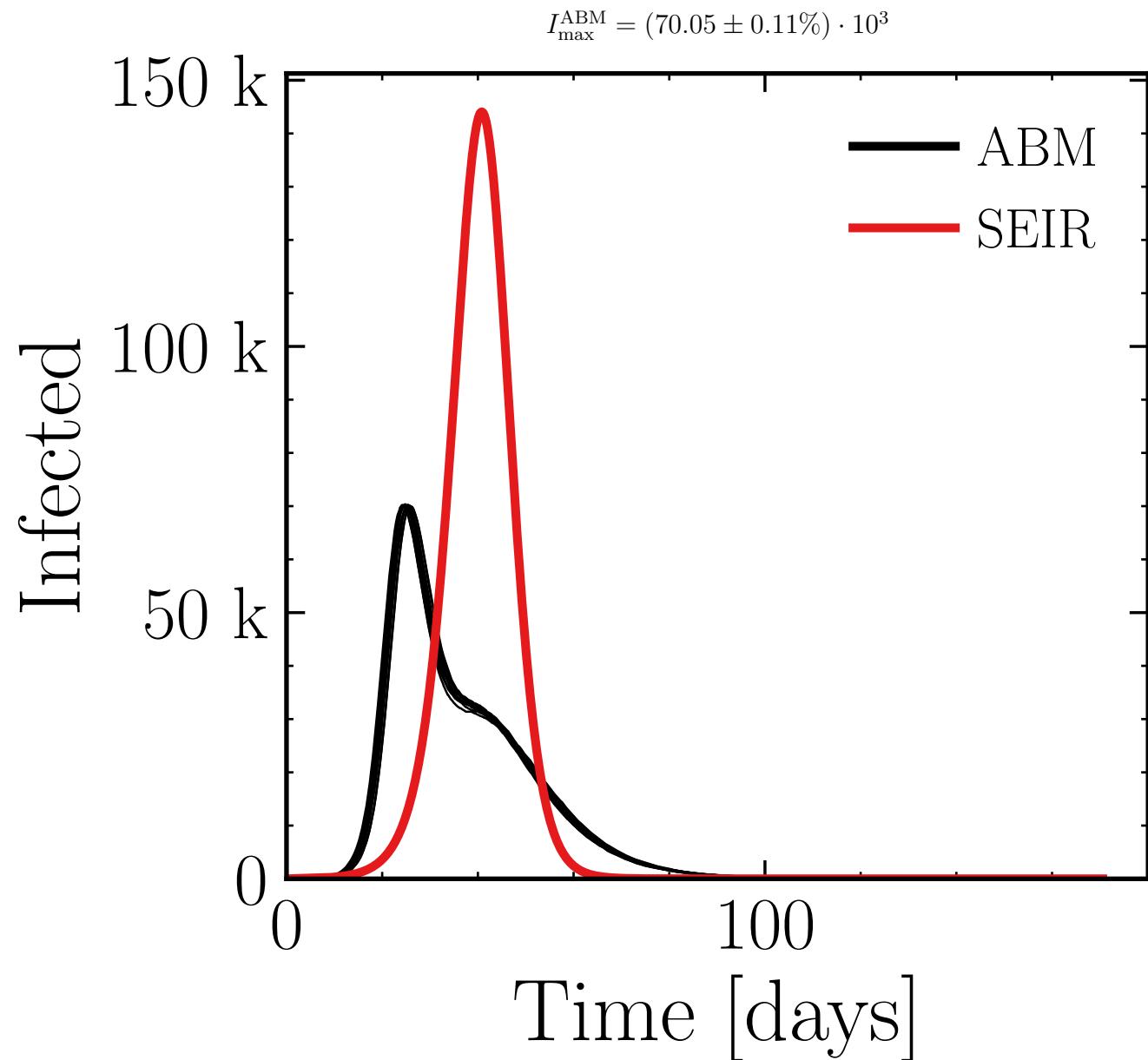
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 10.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.04$ ,  $\sigma_\beta = 1.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (37.72 \pm 0.18\%) \cdot 10^3$$

$$R_\infty^{\text{ABM}} = (195 \pm 0.11\%) \cdot 10^3$$



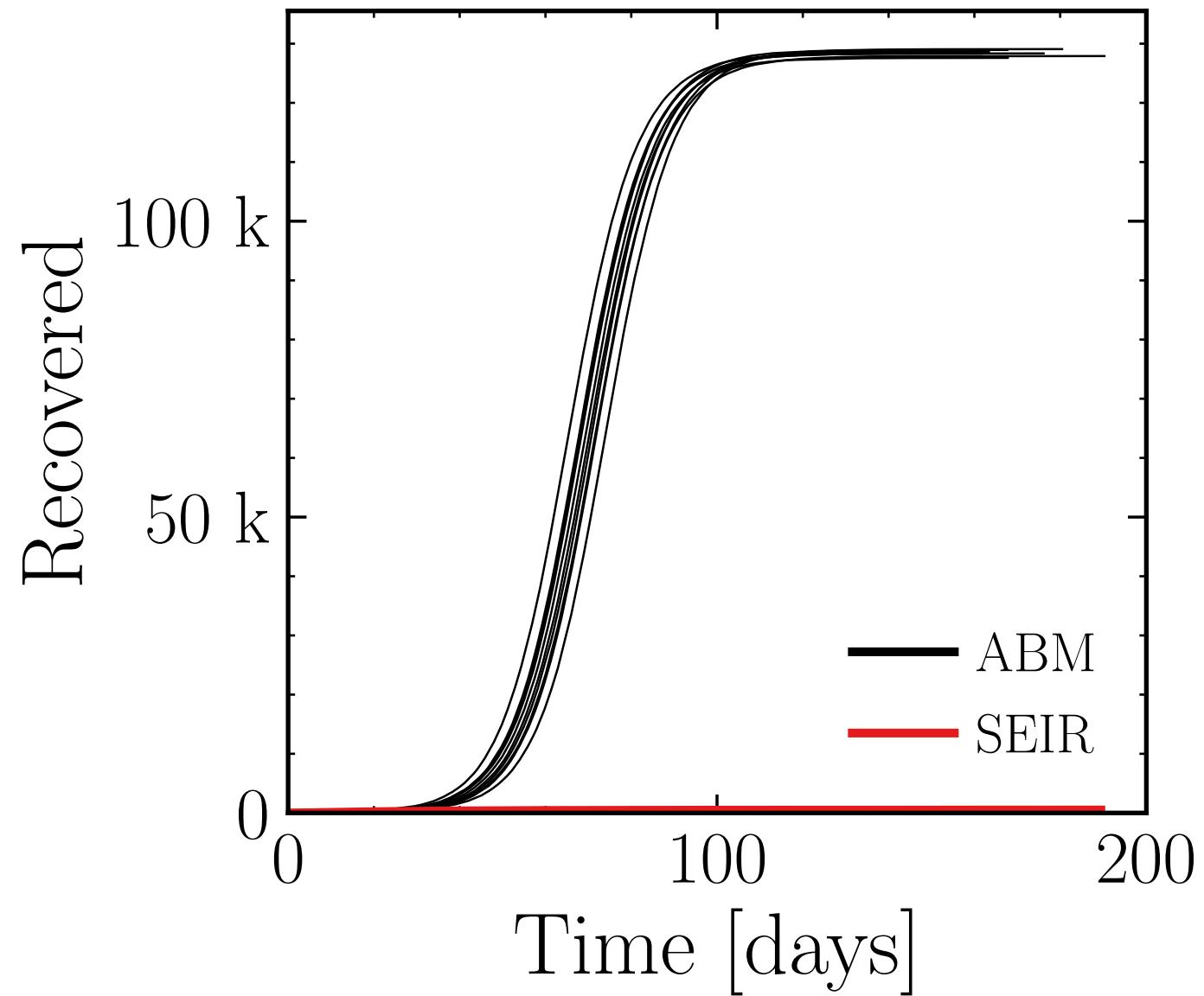
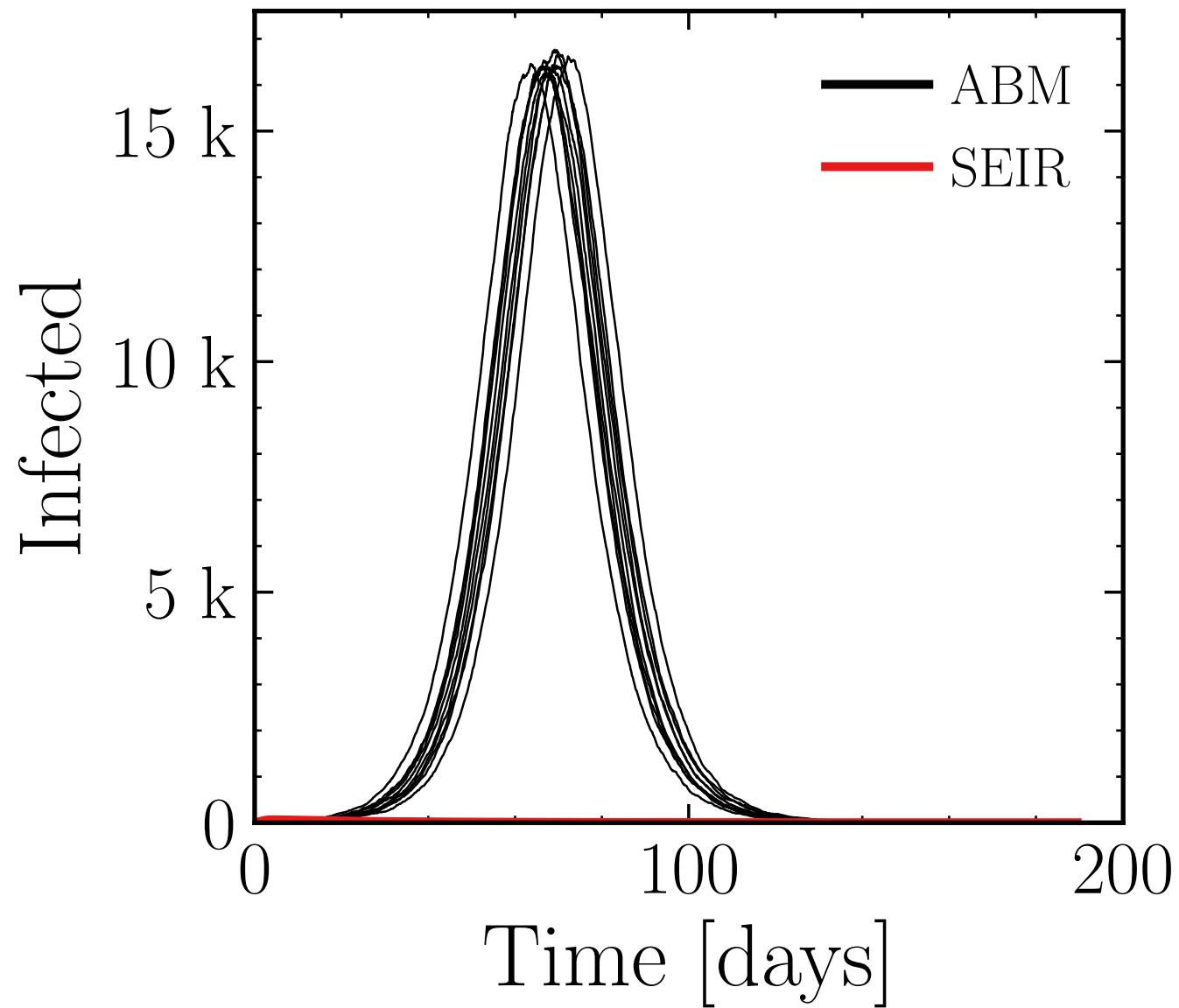
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 100.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10



$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 20.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (16.48 \pm 0.29\%) \cdot 10^3$$

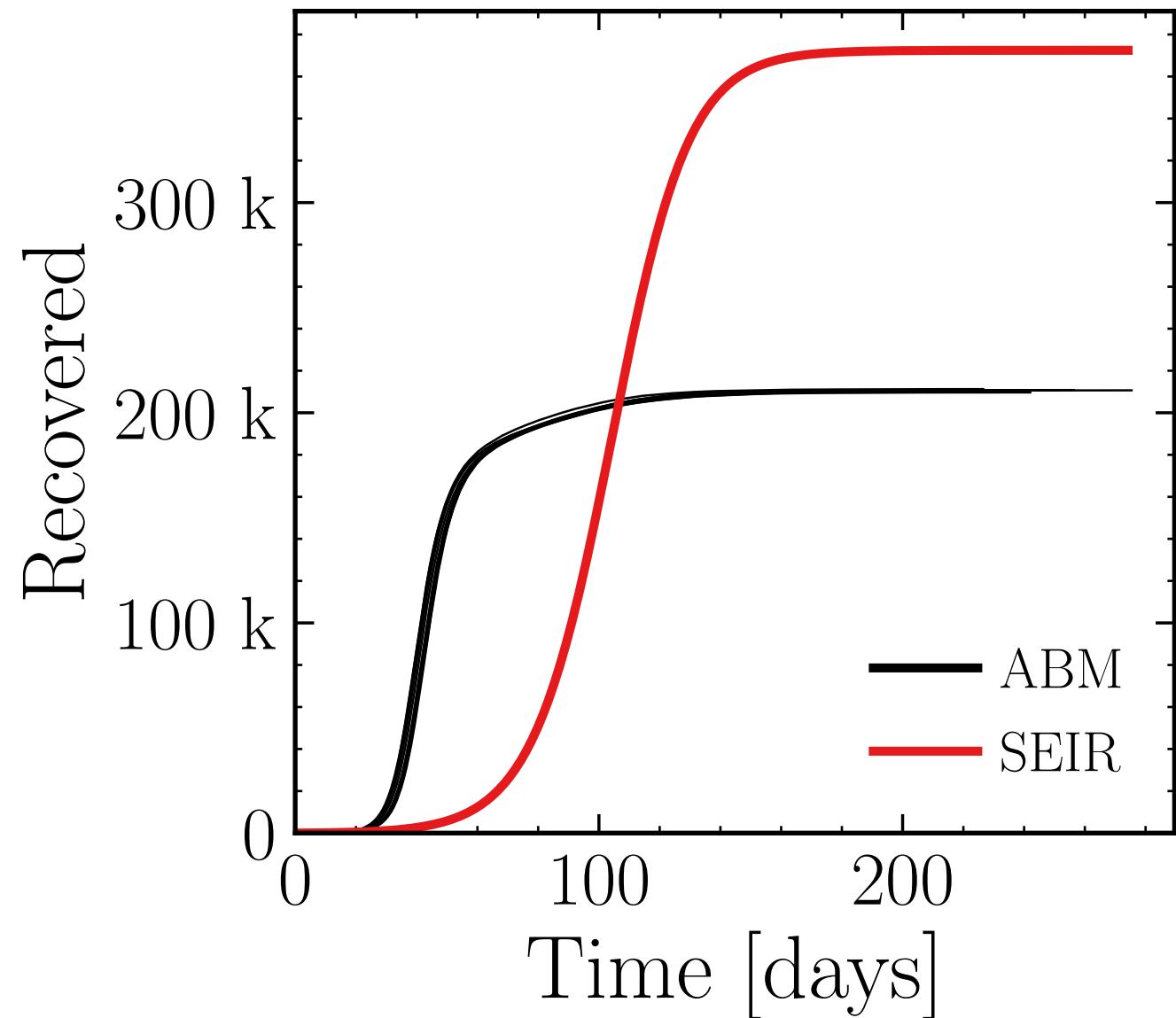
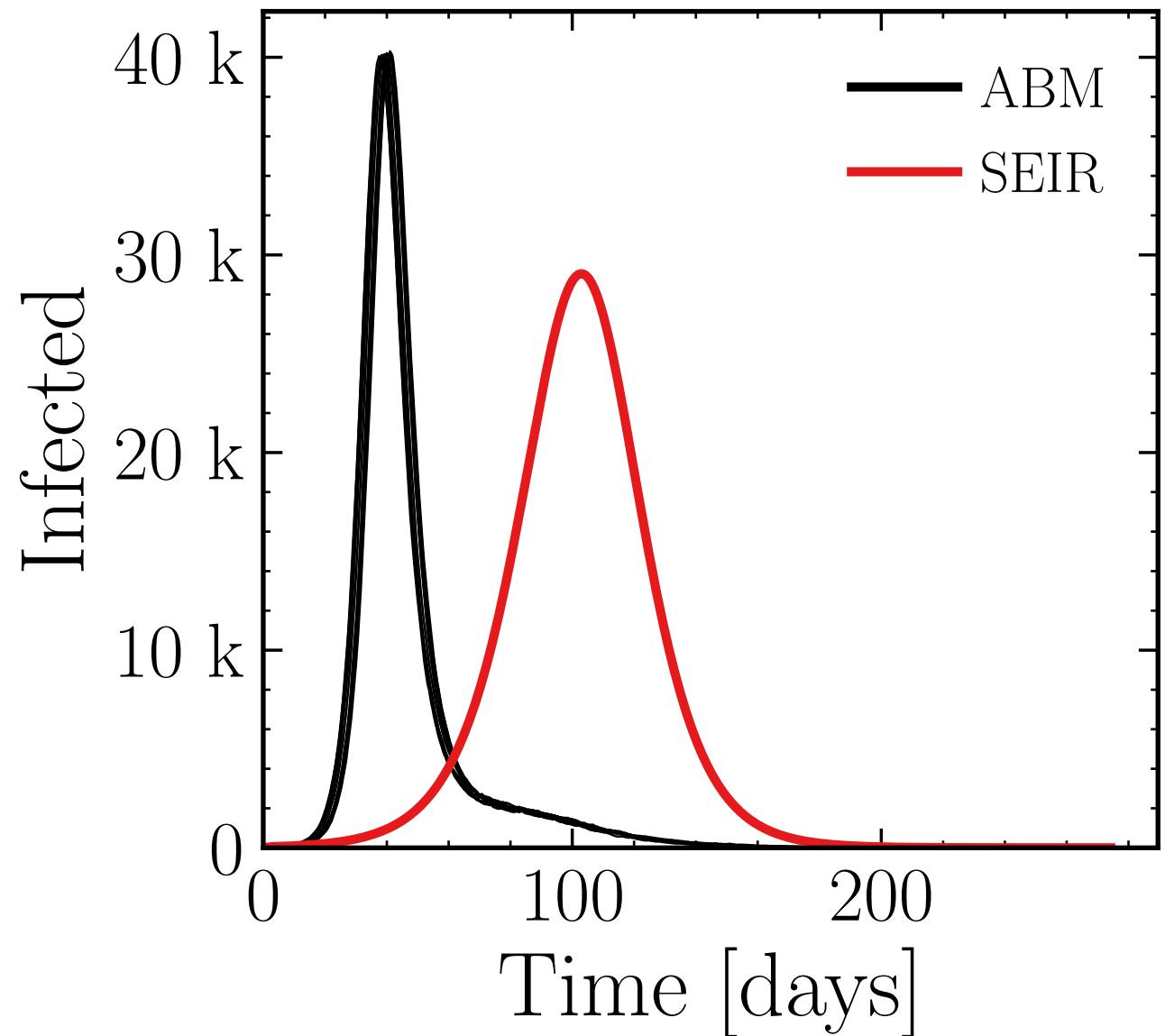
$$R_\infty^{\text{ABM}} = (128.5 \pm 0.11\%) \cdot 10^3$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 20.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.02$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (40.07 \pm 0.13\%) \cdot 10^3$$

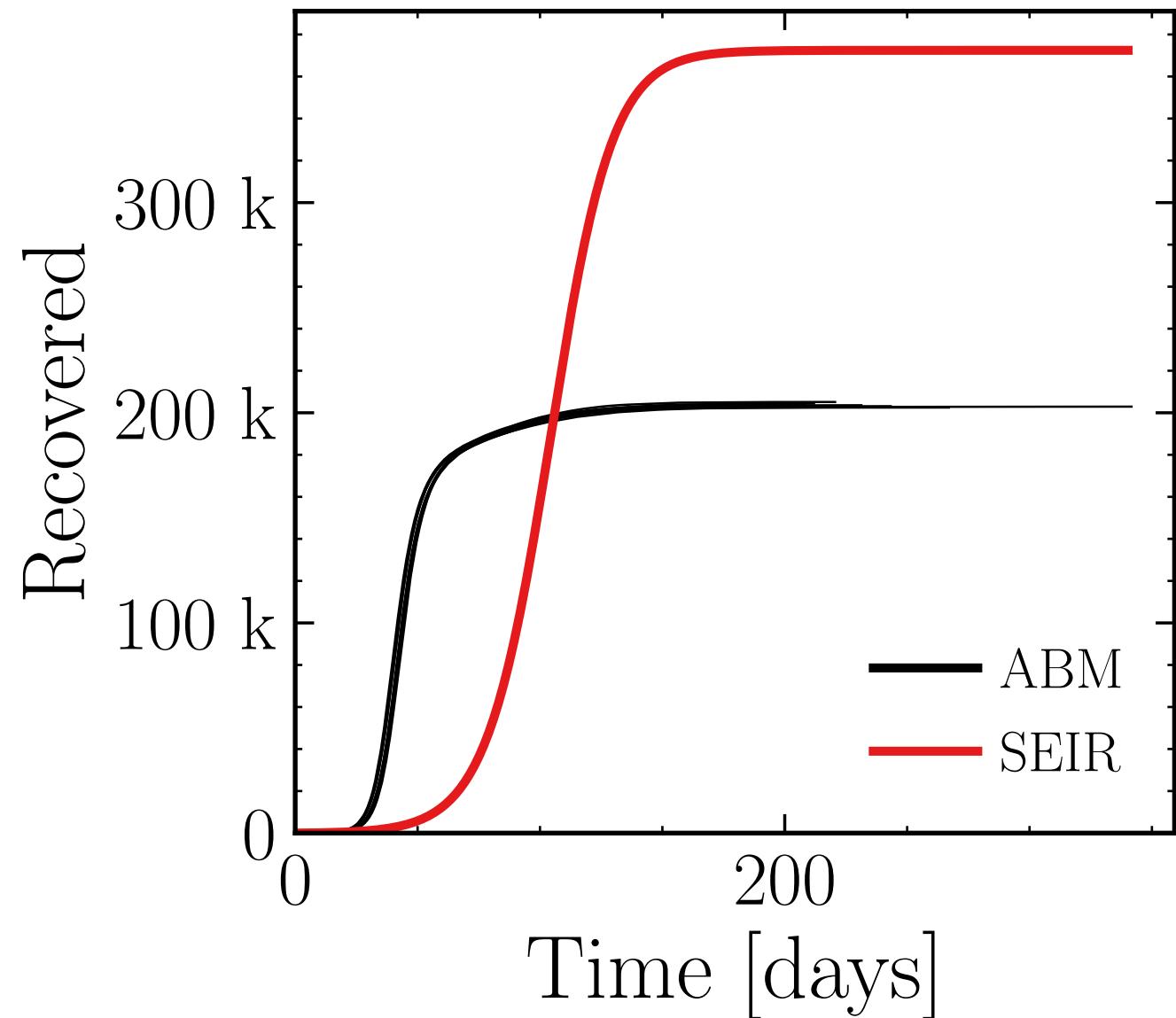
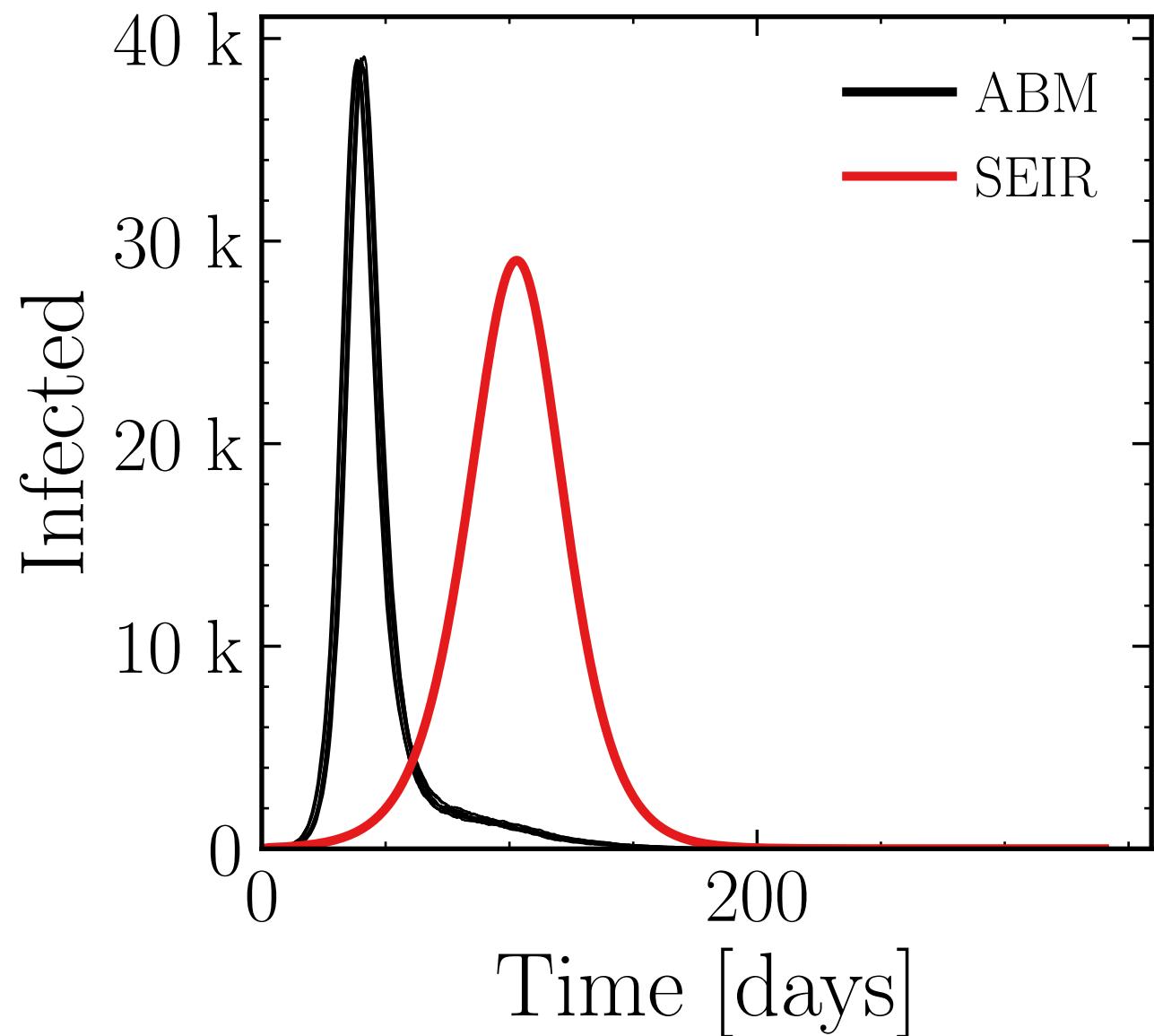
$$R_\infty^{\text{ABM}} = (210.5 \pm 0.069\%) \cdot 10^3$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 20.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.02$ ,  $\sigma_\beta = 1.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

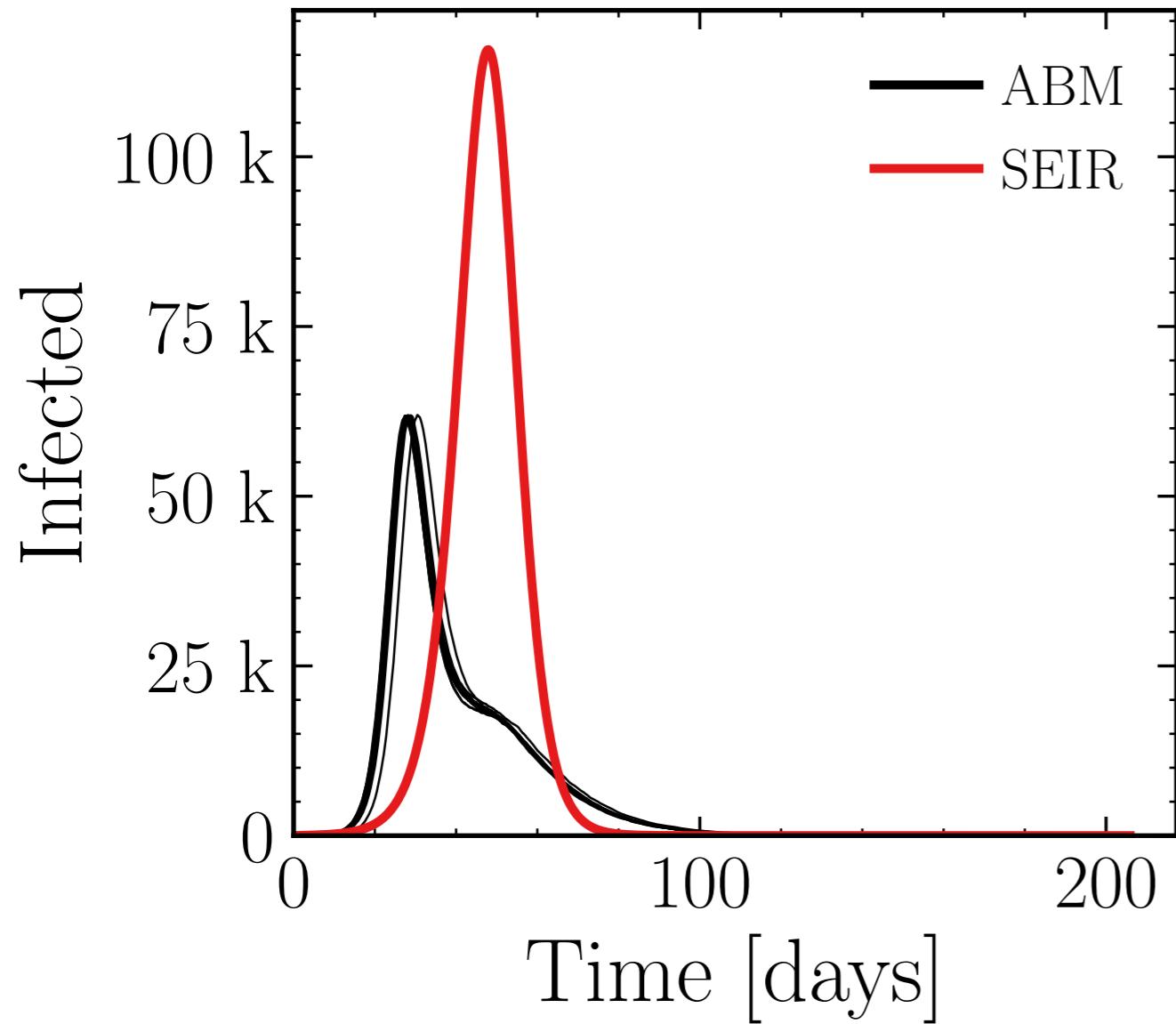
$$I_{\max}^{\text{ABM}} = (38.81 \pm 0.16\%) \cdot 10^3$$

$$R_\infty^{\text{ABM}} = (203.6 \pm 0.12\%) \cdot 10^3$$

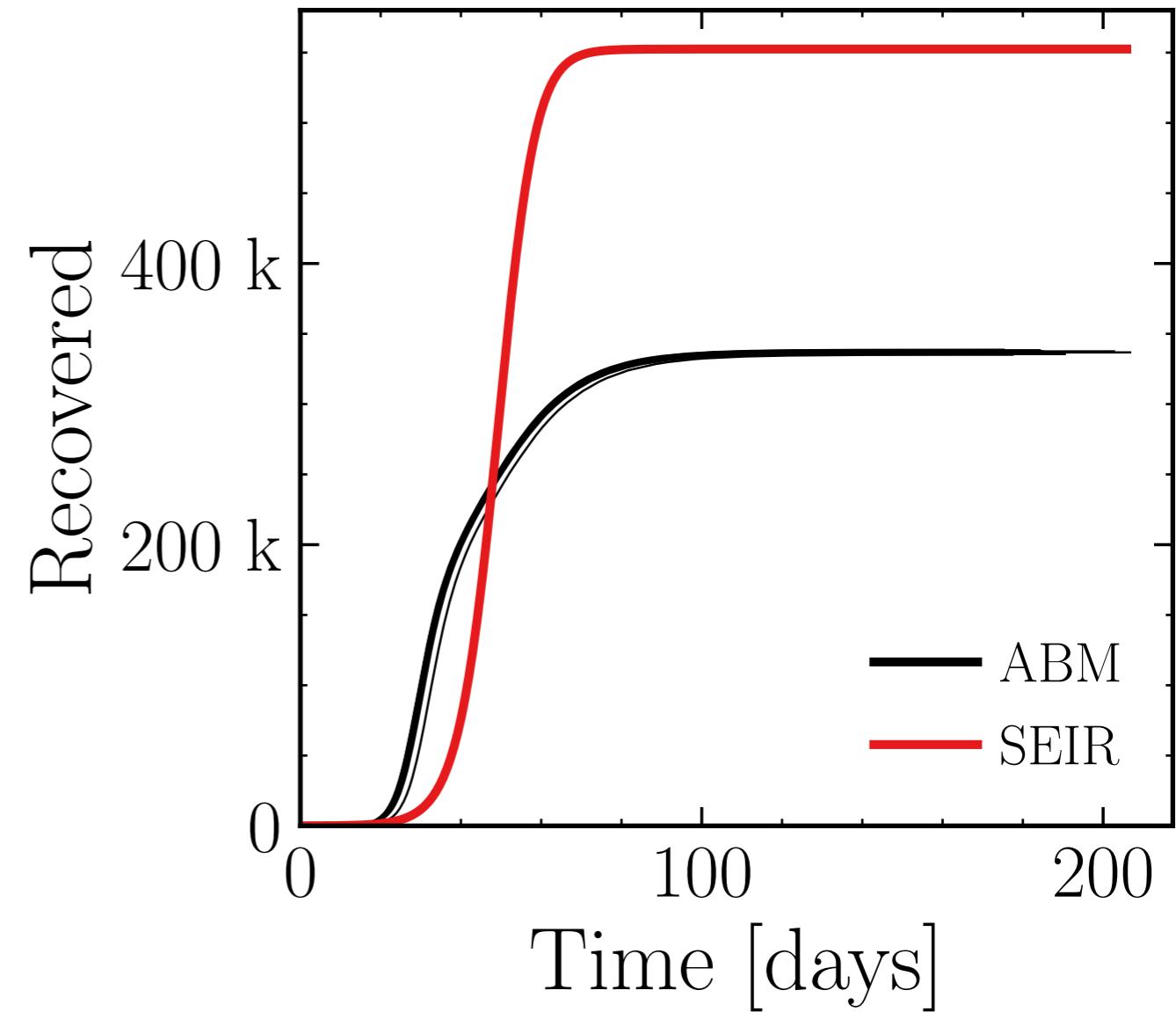


$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 20.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.04$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (61.69 \pm 0.15\%) \cdot 10^3$$

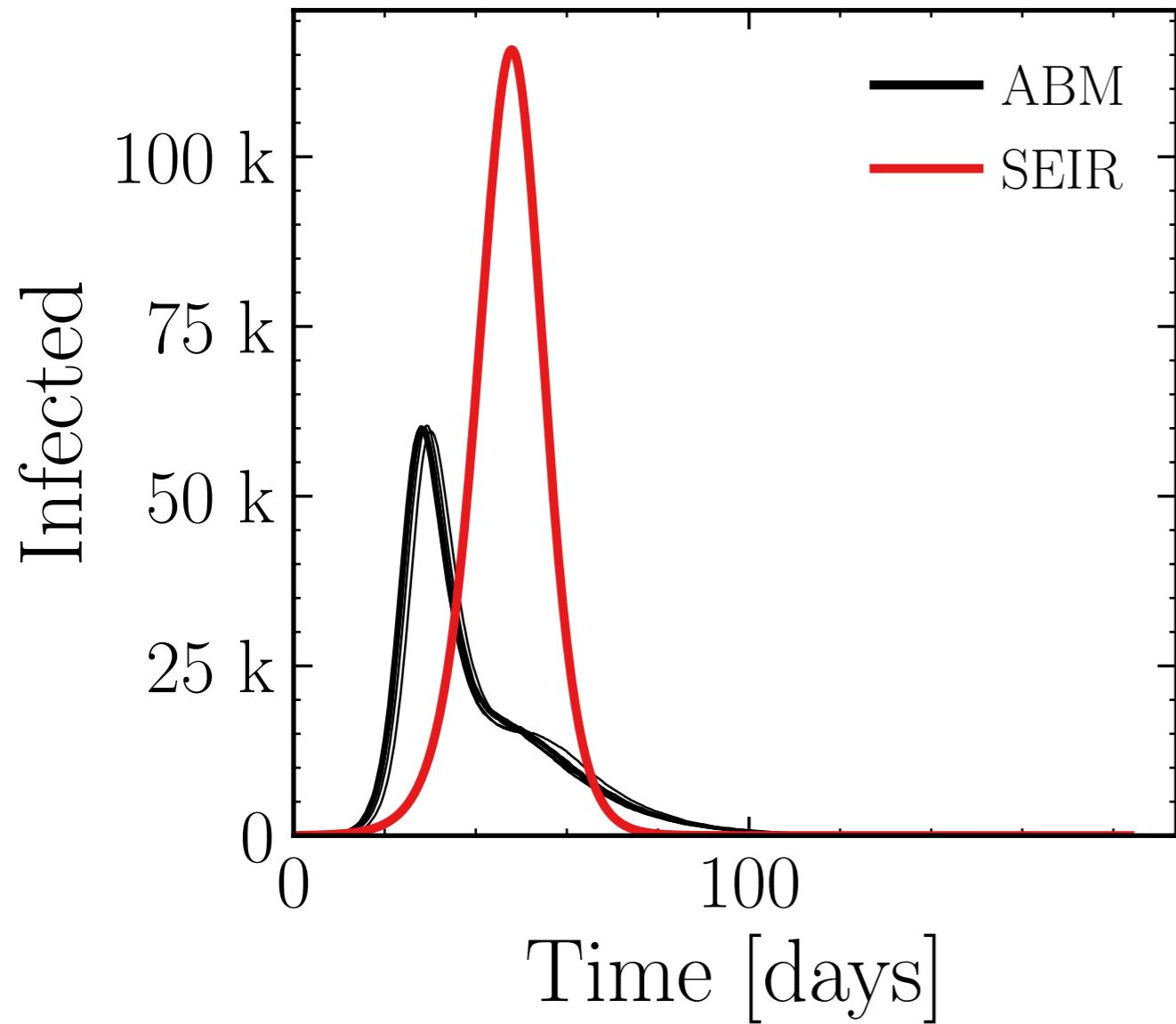


$$R_\infty^{\text{ABM}} = (336.9 \pm 0.1\%) \cdot 10^3$$

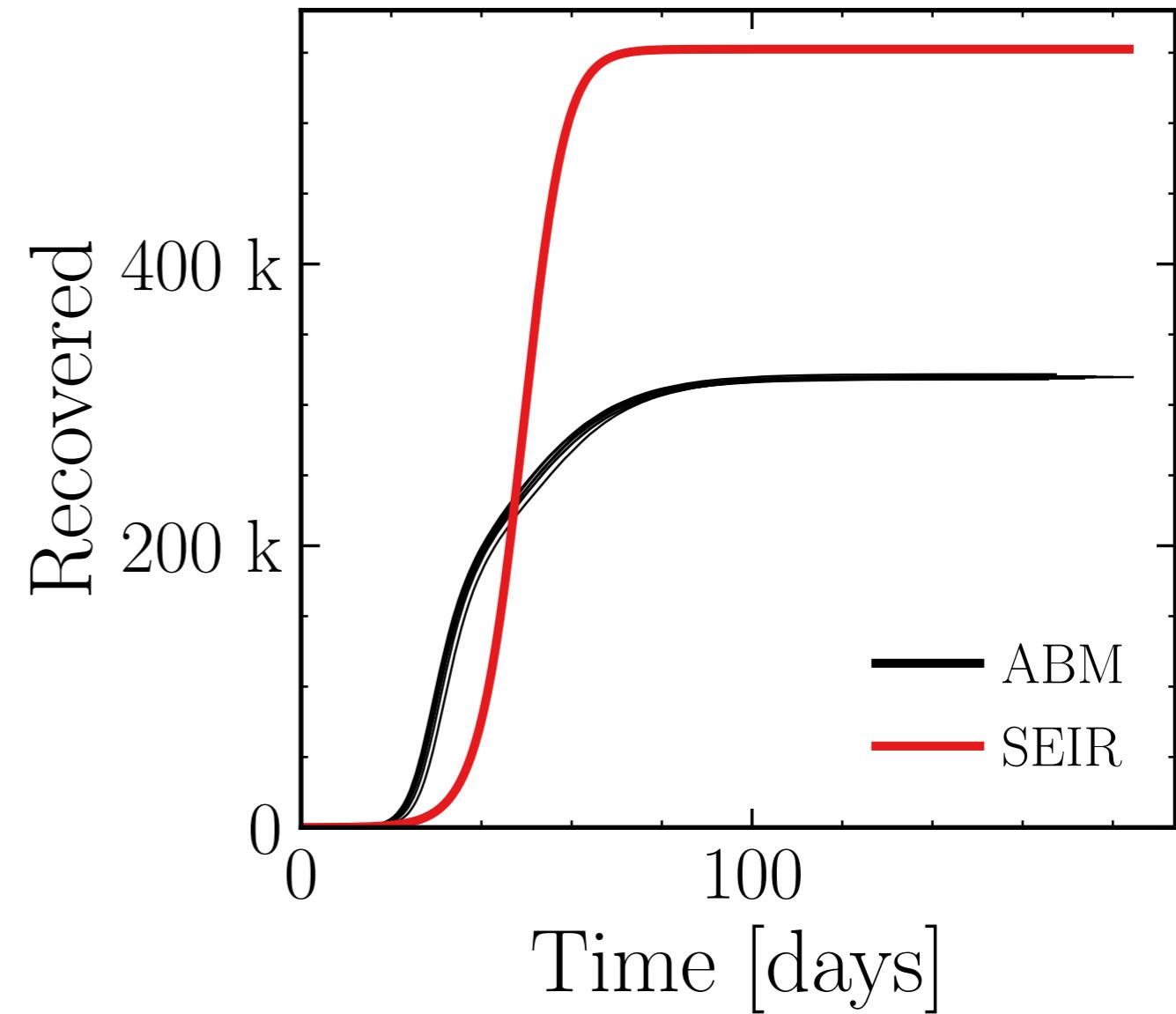


$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 20.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.04$ ,  $\sigma_\beta = 1.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (60.03 \pm 0.14\%) \cdot 10^3$$



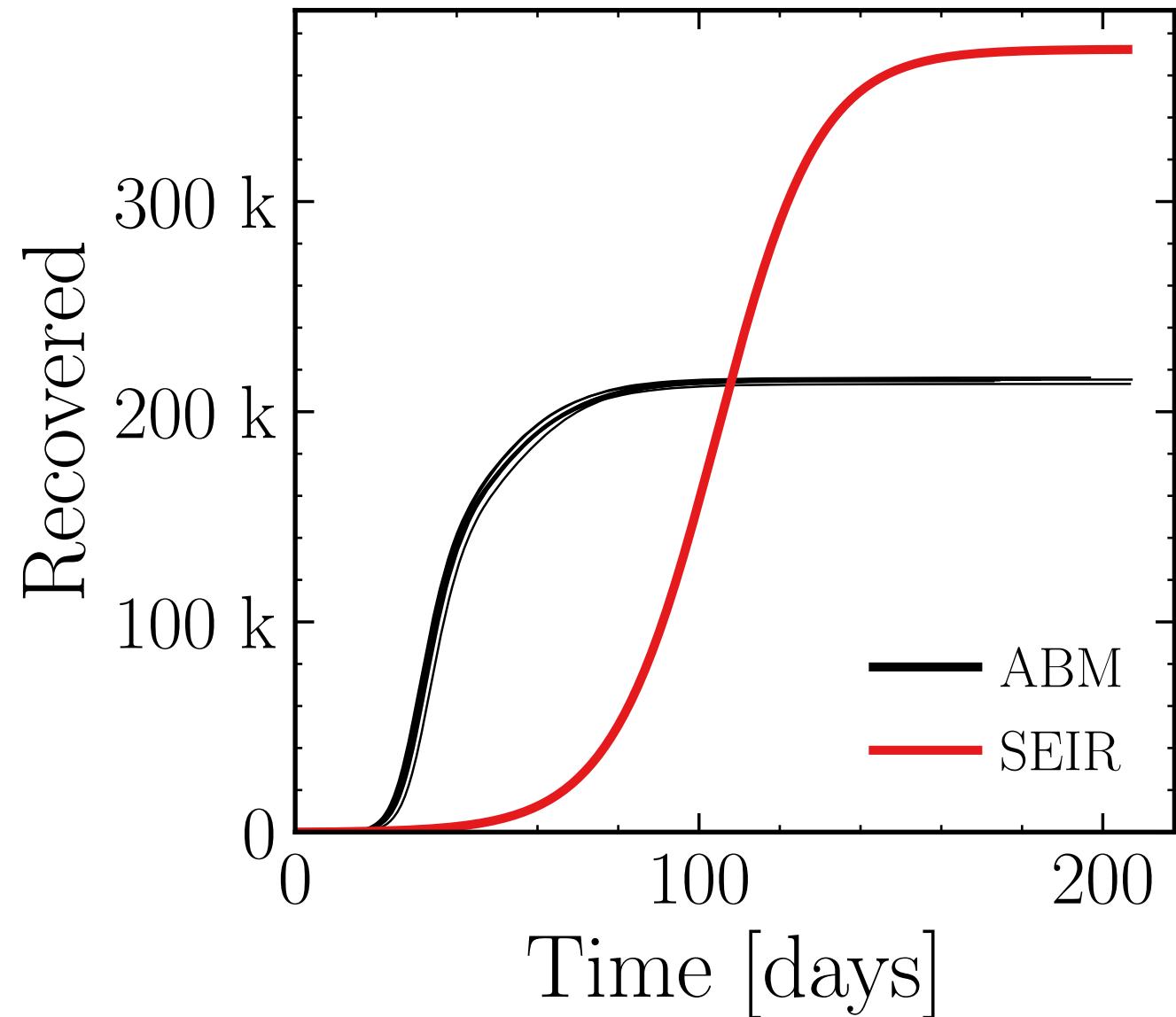
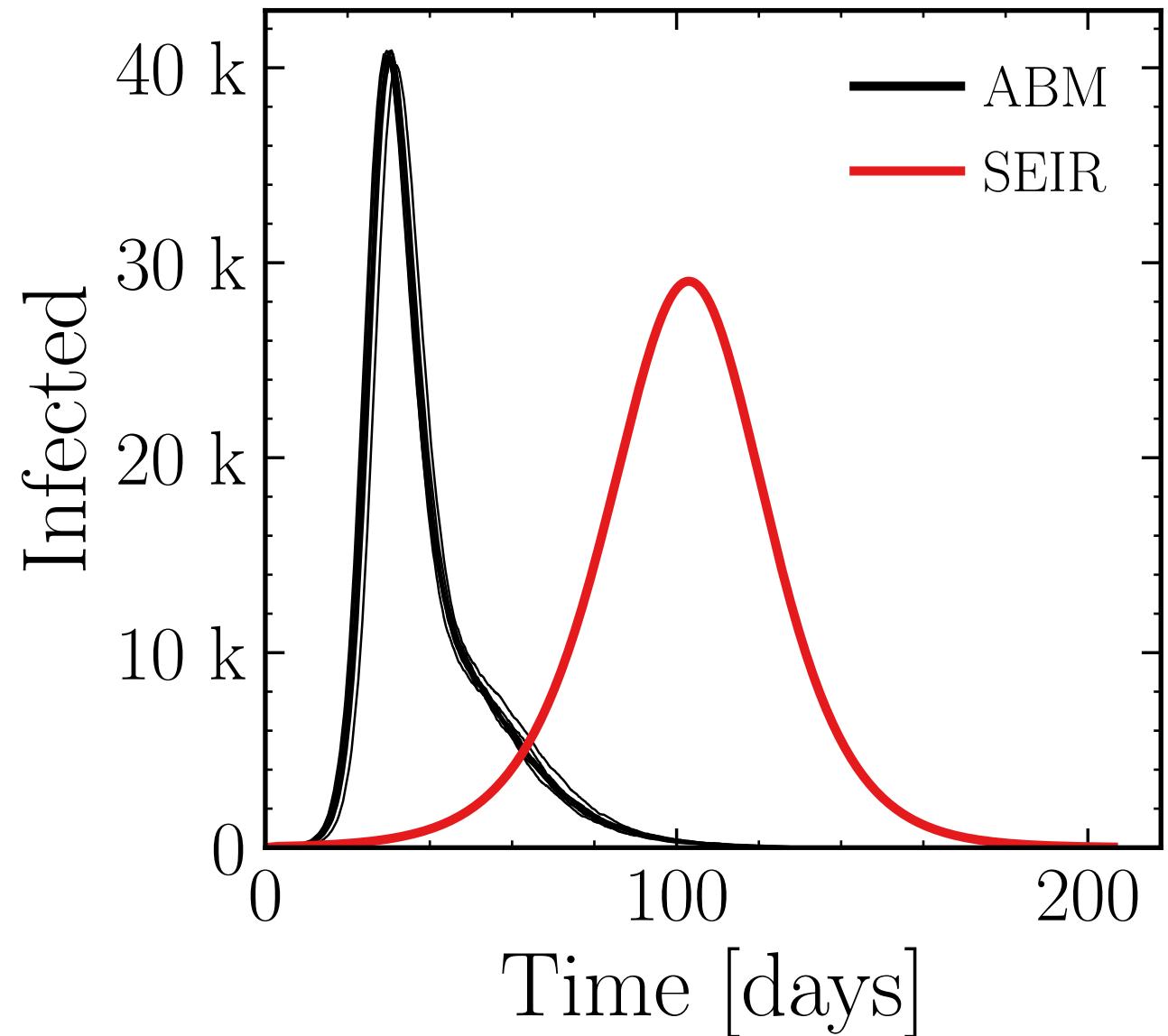
$$R_{\infty}^{\text{ABM}} = (319.8 \pm 0.09\%) \cdot 10^3$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 20.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.02$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (40.64 \pm 0.17\%) \cdot 10^3$$

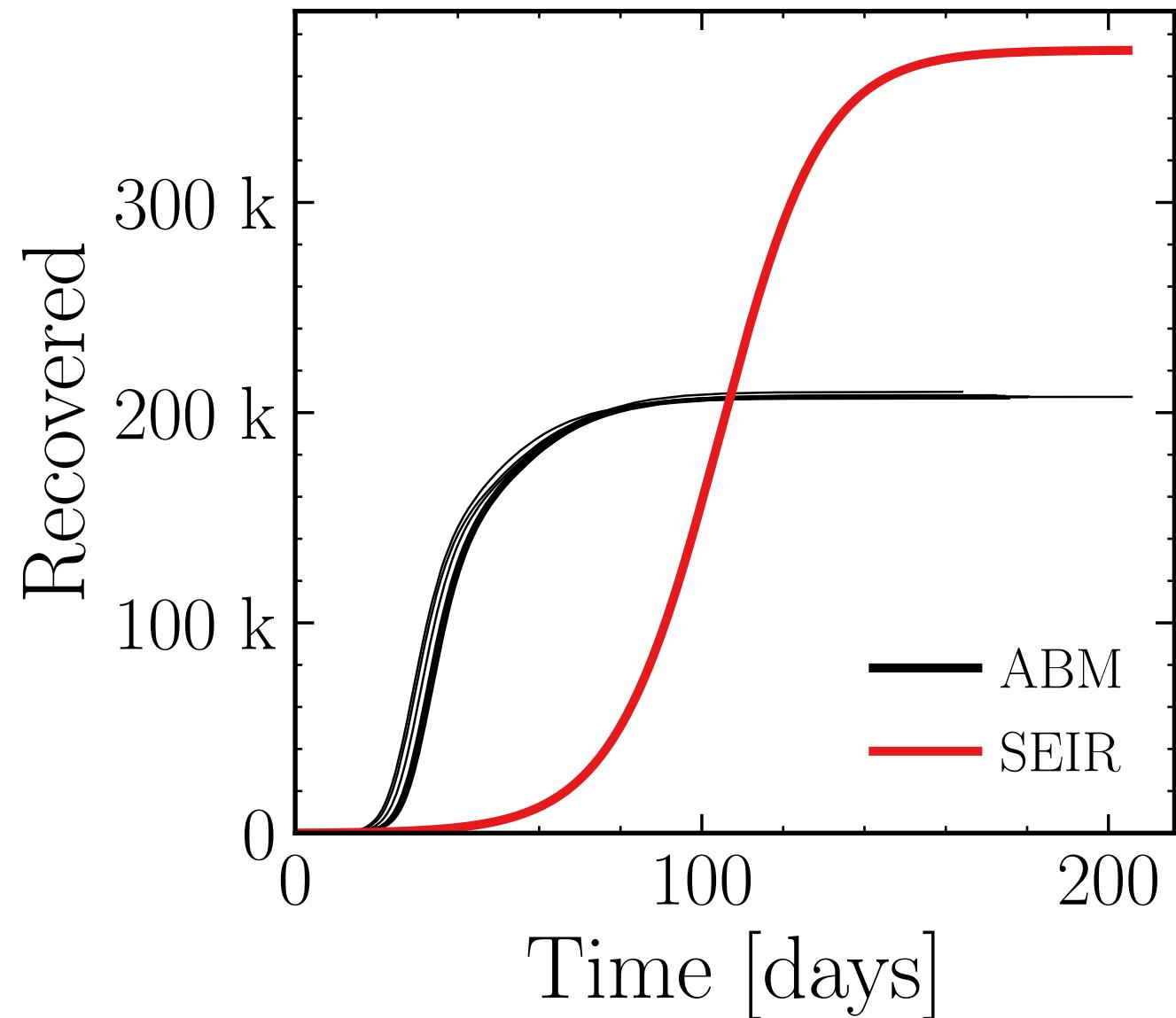
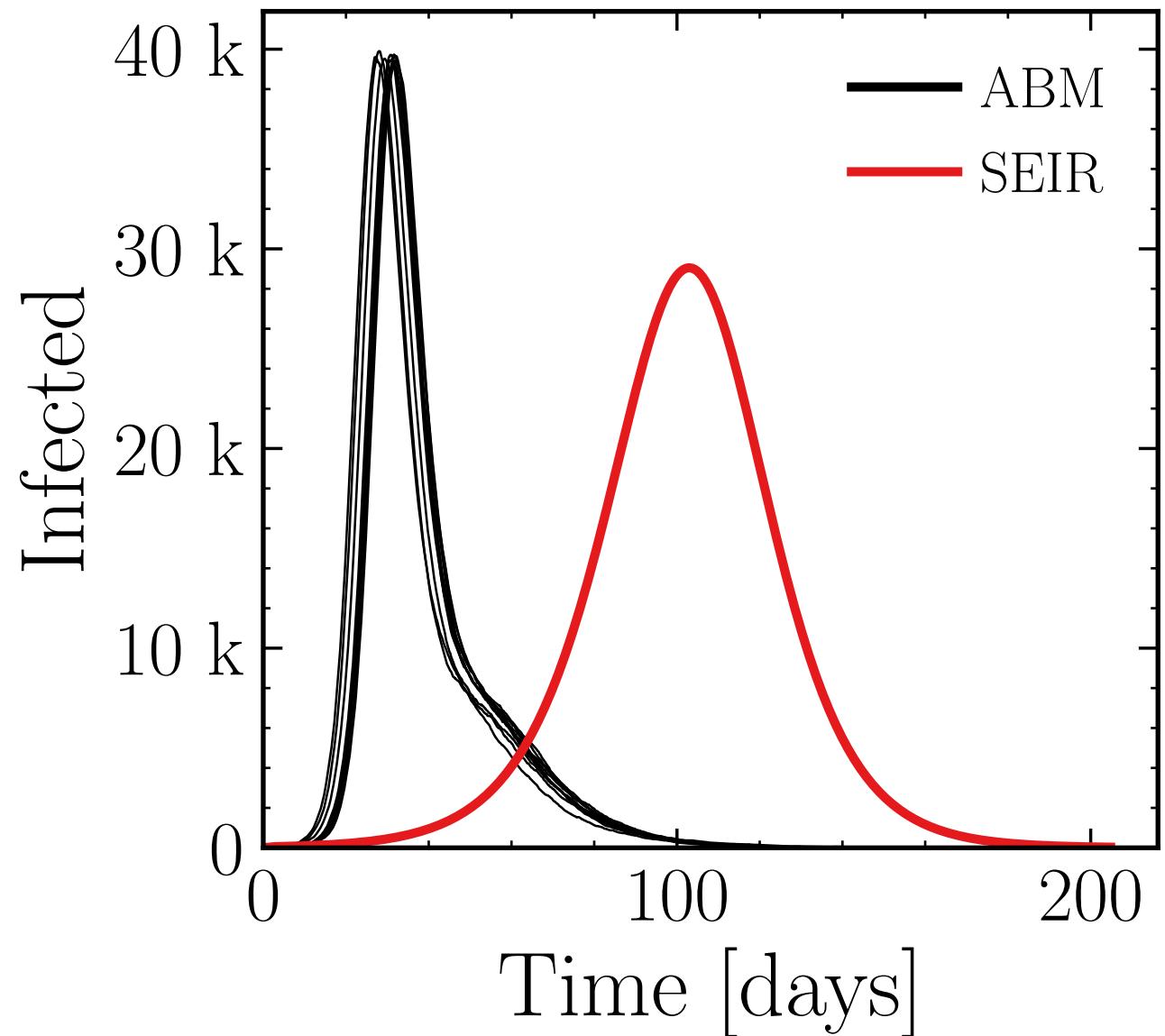
$$R_\infty^{\text{ABM}} = (215.1 \pm 0.11\%) \cdot 10^3$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 20.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.02$ ,  $\sigma_\beta = 1.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

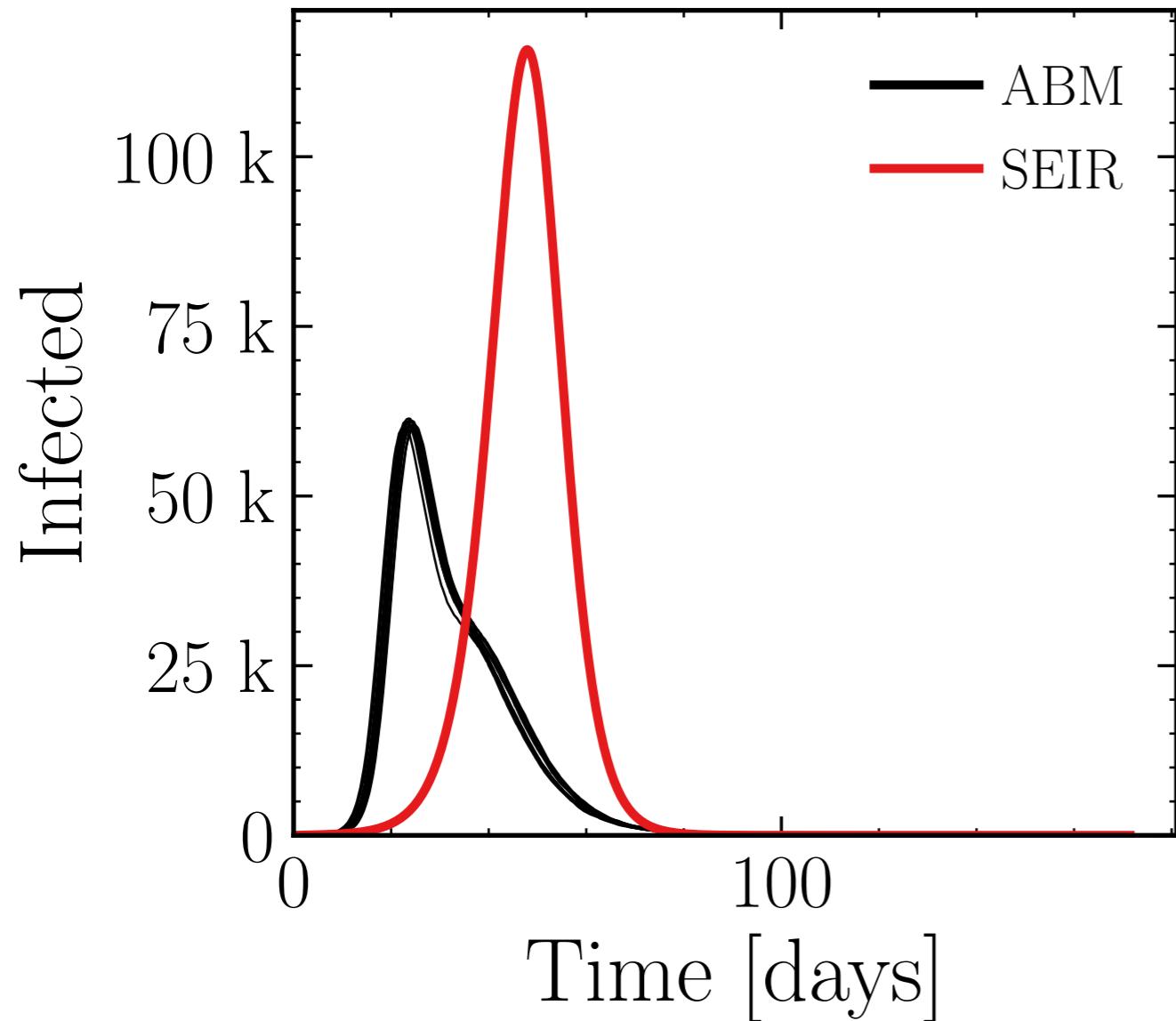
$$I_{\max}^{\text{ABM}} = (39.56 \pm 0.16\%) \cdot 10^3$$

$$R_\infty^{\text{ABM}} = (207.8 \pm 0.12\%) \cdot 10^3$$

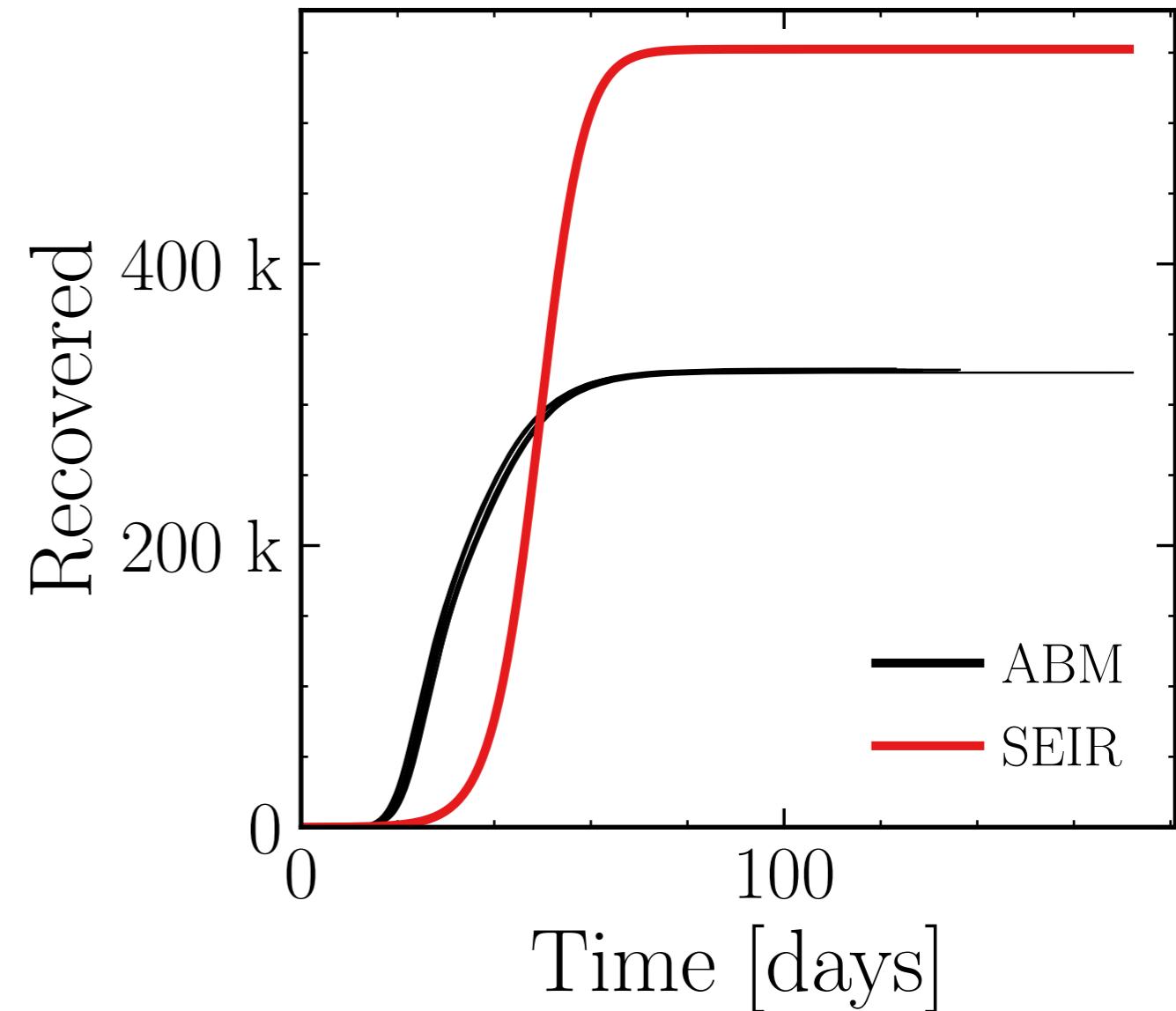


$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 20.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.04$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (60.7 \pm 0.22\%) \cdot 10^3$$

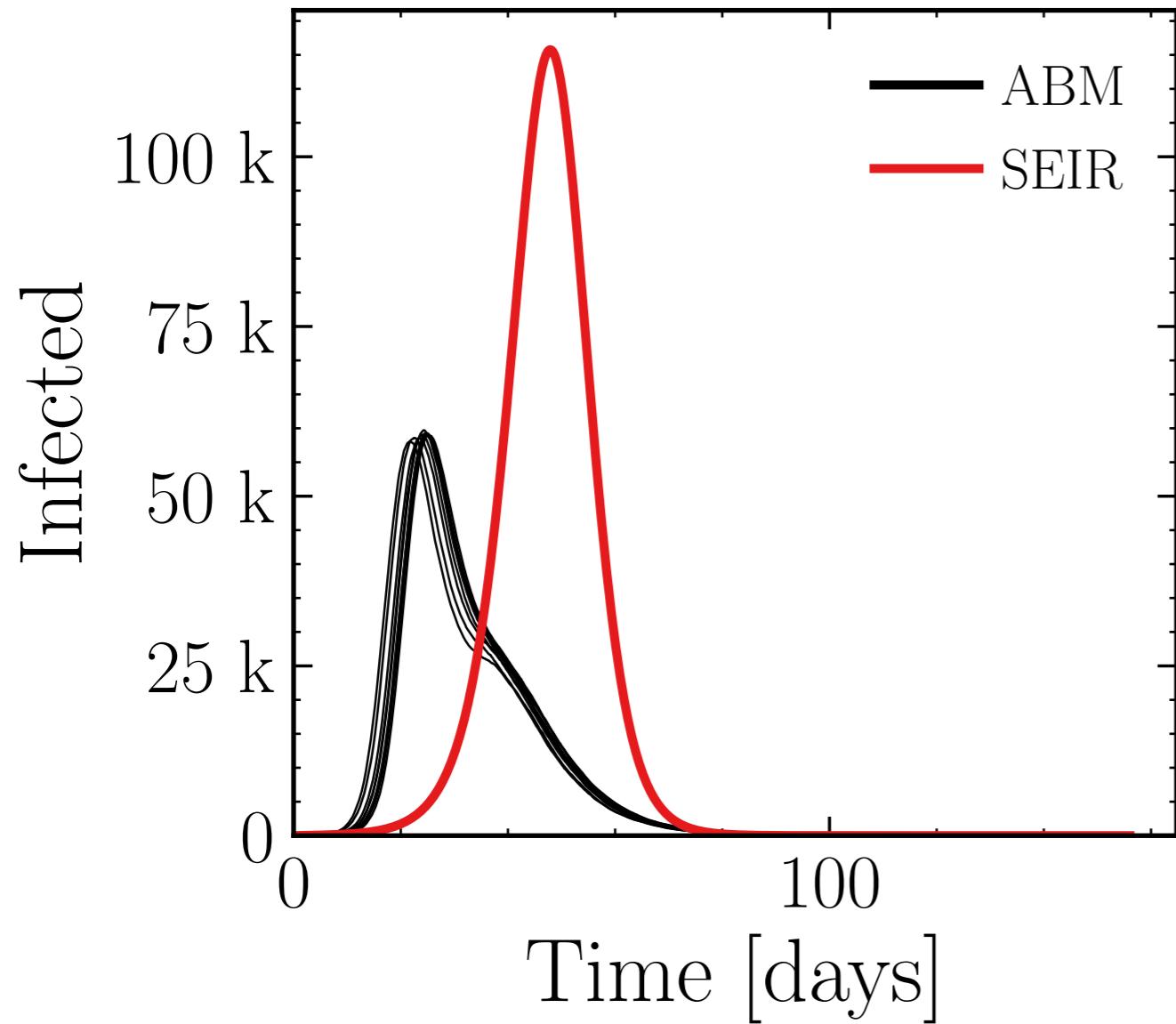


$$R_{\infty}^{\text{ABM}} = (324.3 \pm 0.077\%) \cdot 10^3$$

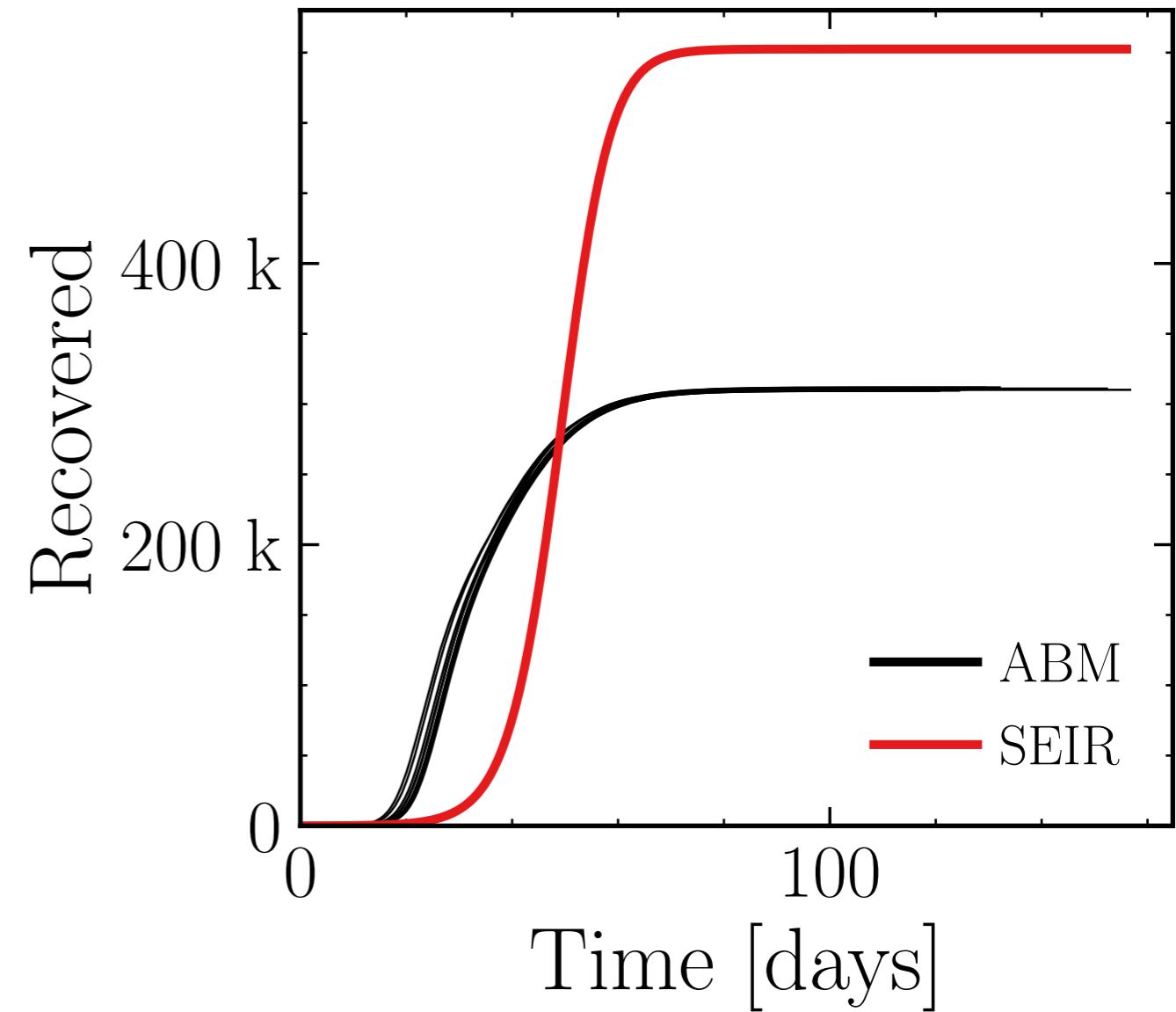


$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 20.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.04$ ,  $\sigma_\beta = 1.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (59 \pm 0.23\%) \cdot 10^3$$



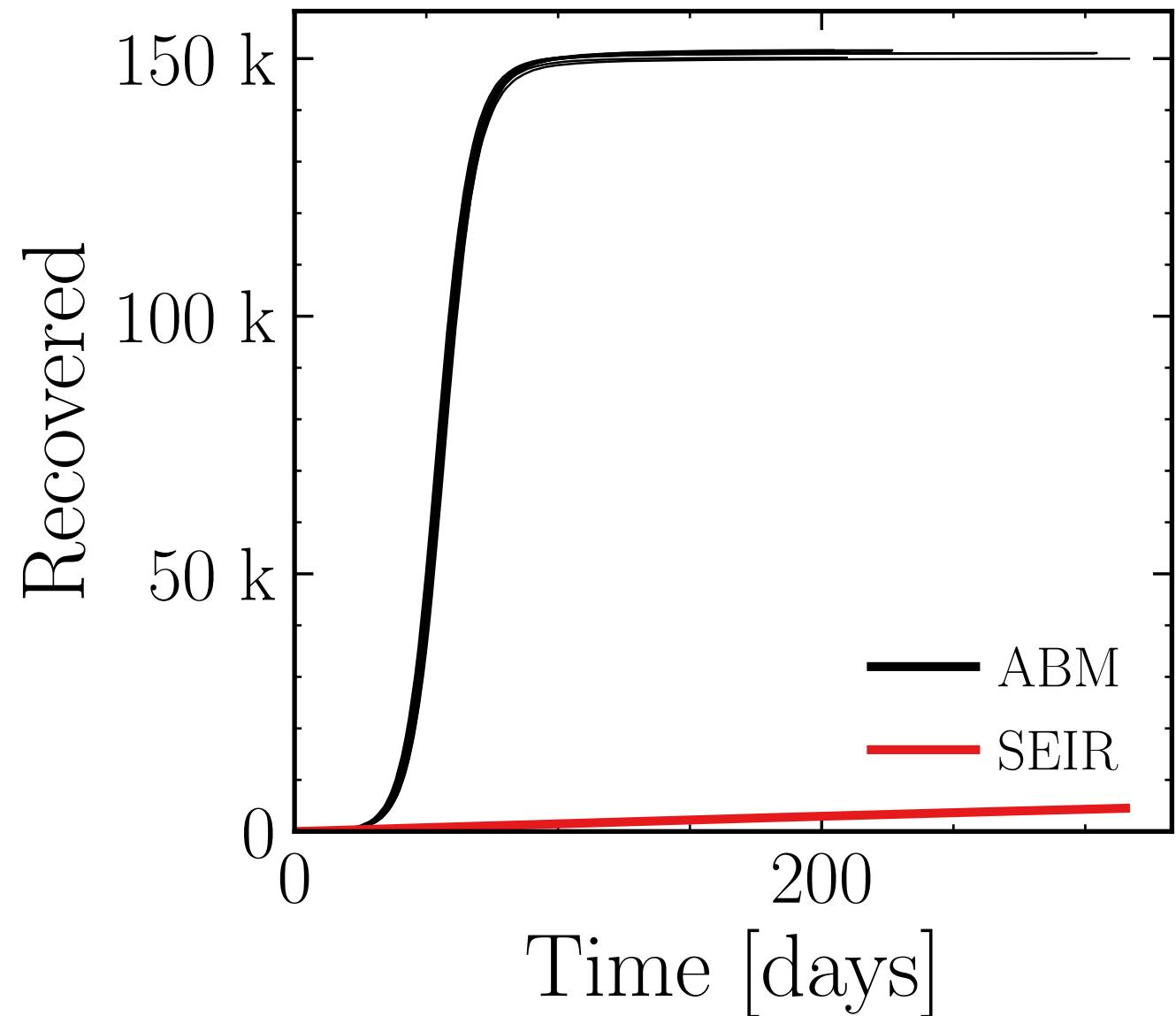
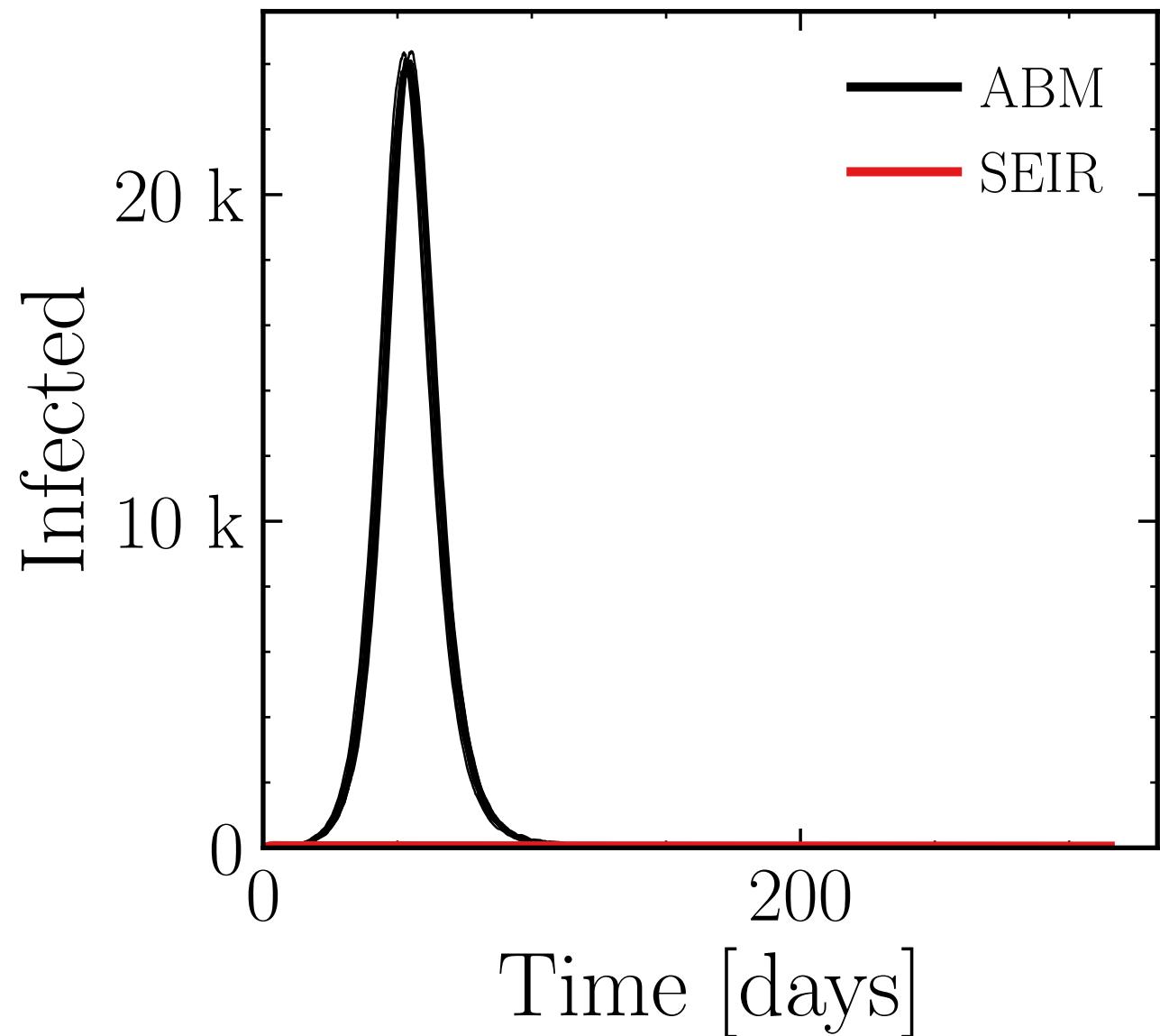
$$R_\infty^{\text{ABM}} = (310.5 \pm 0.084\%) \cdot 10^3$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 25.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (24.12 \pm 0.21\%) \cdot 10^3$$

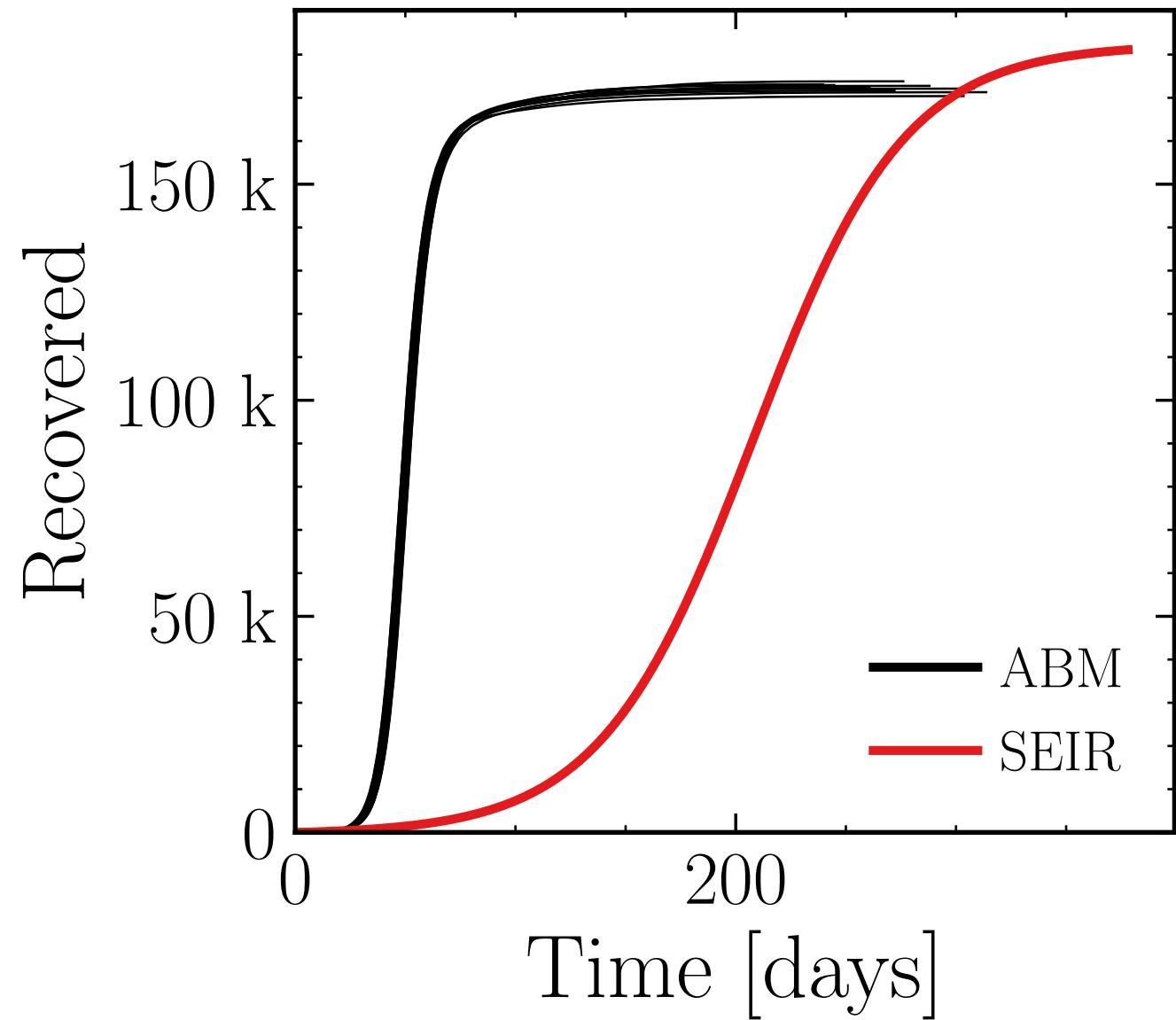
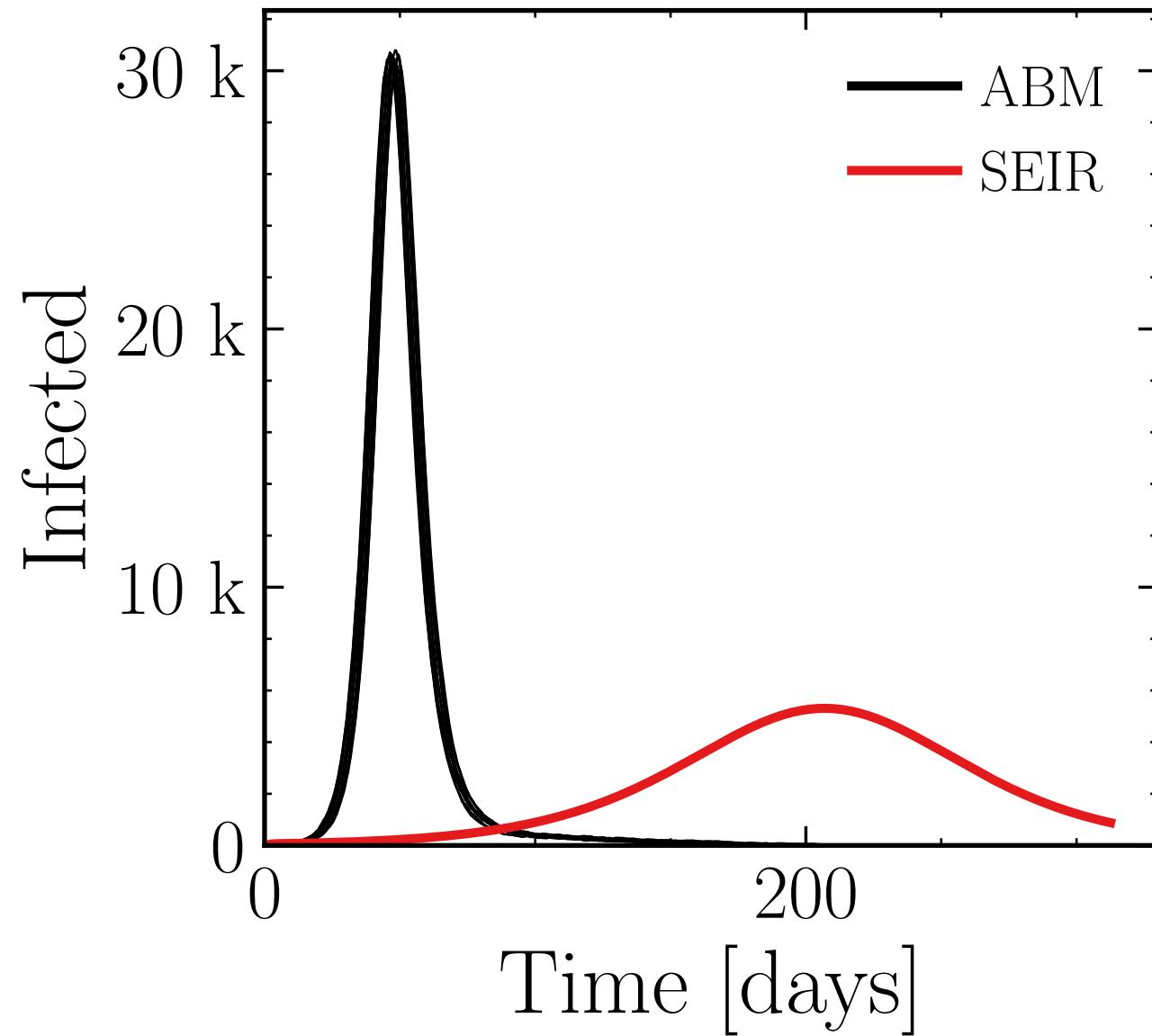
$$R_\infty^{\text{ABM}} = (151 \pm 0.11\%) \cdot 10^3$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 30.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

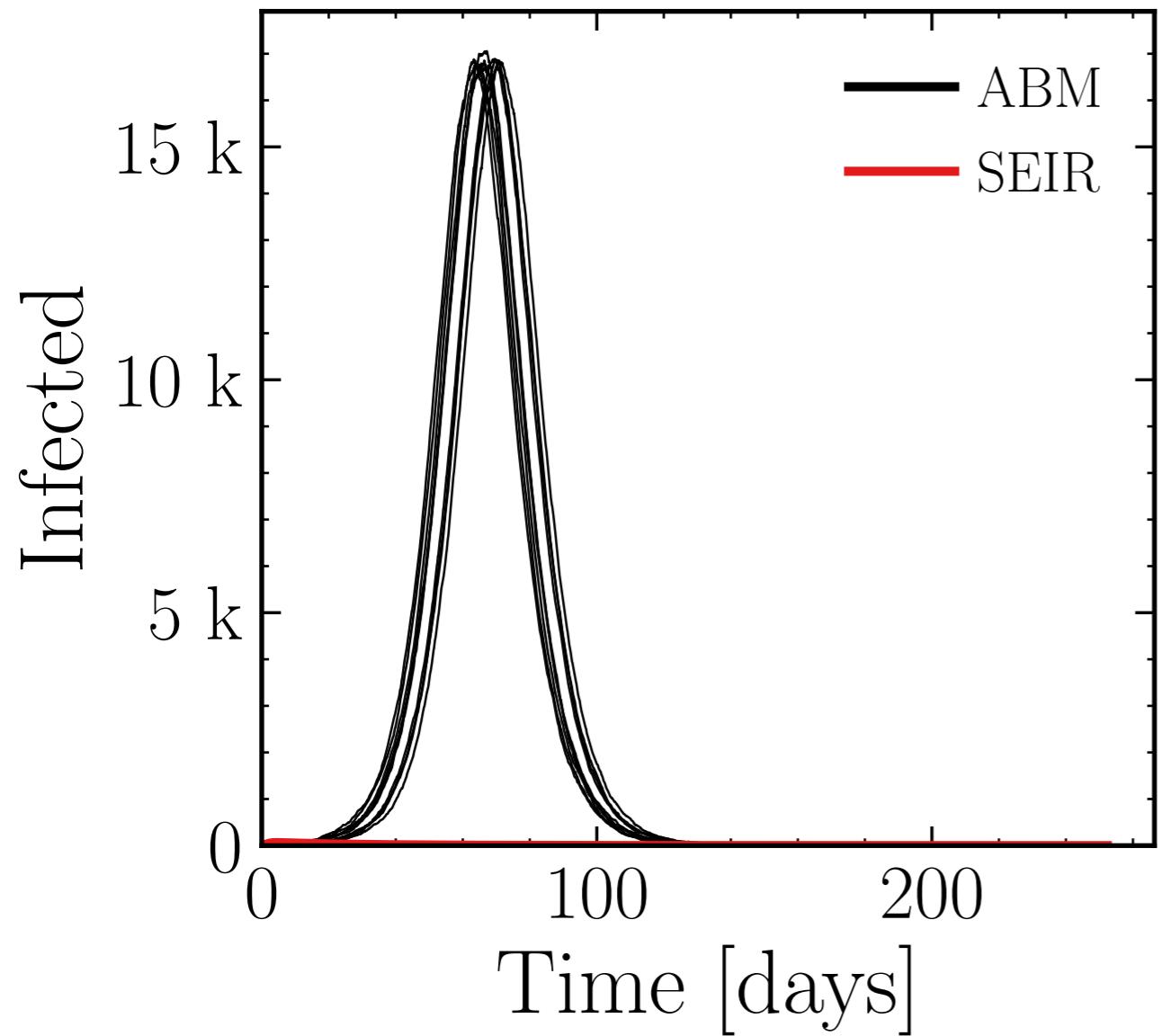
$$I_{\max}^{\text{ABM}} = (30.57 \pm 0.13\%) \cdot 10^3$$

$$R_\infty^{\text{ABM}} = (172.3 \pm 0.17\%) \cdot 10^3$$

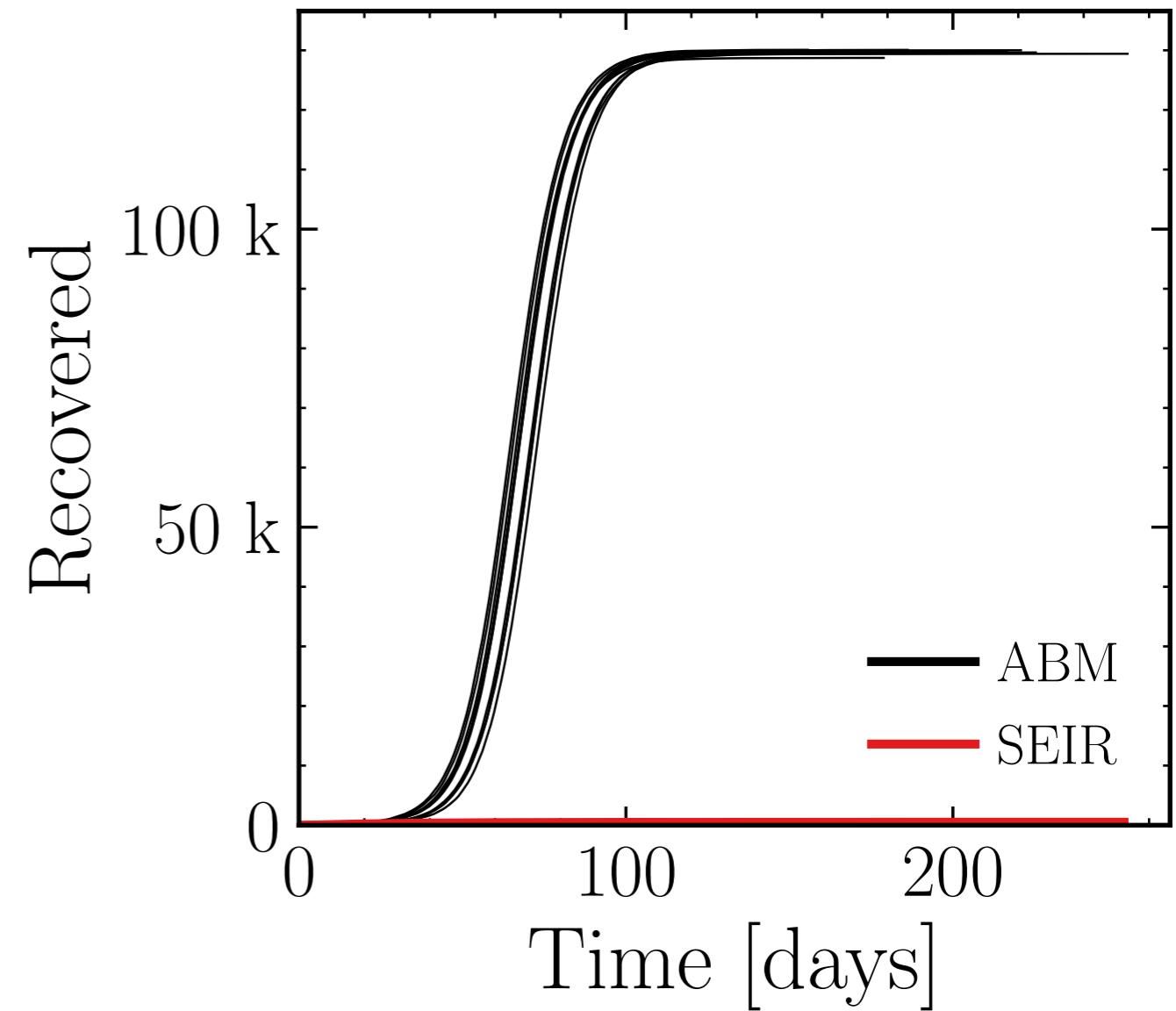


$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.005$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (16.84 \pm 0.18\%) \cdot 10^3$$

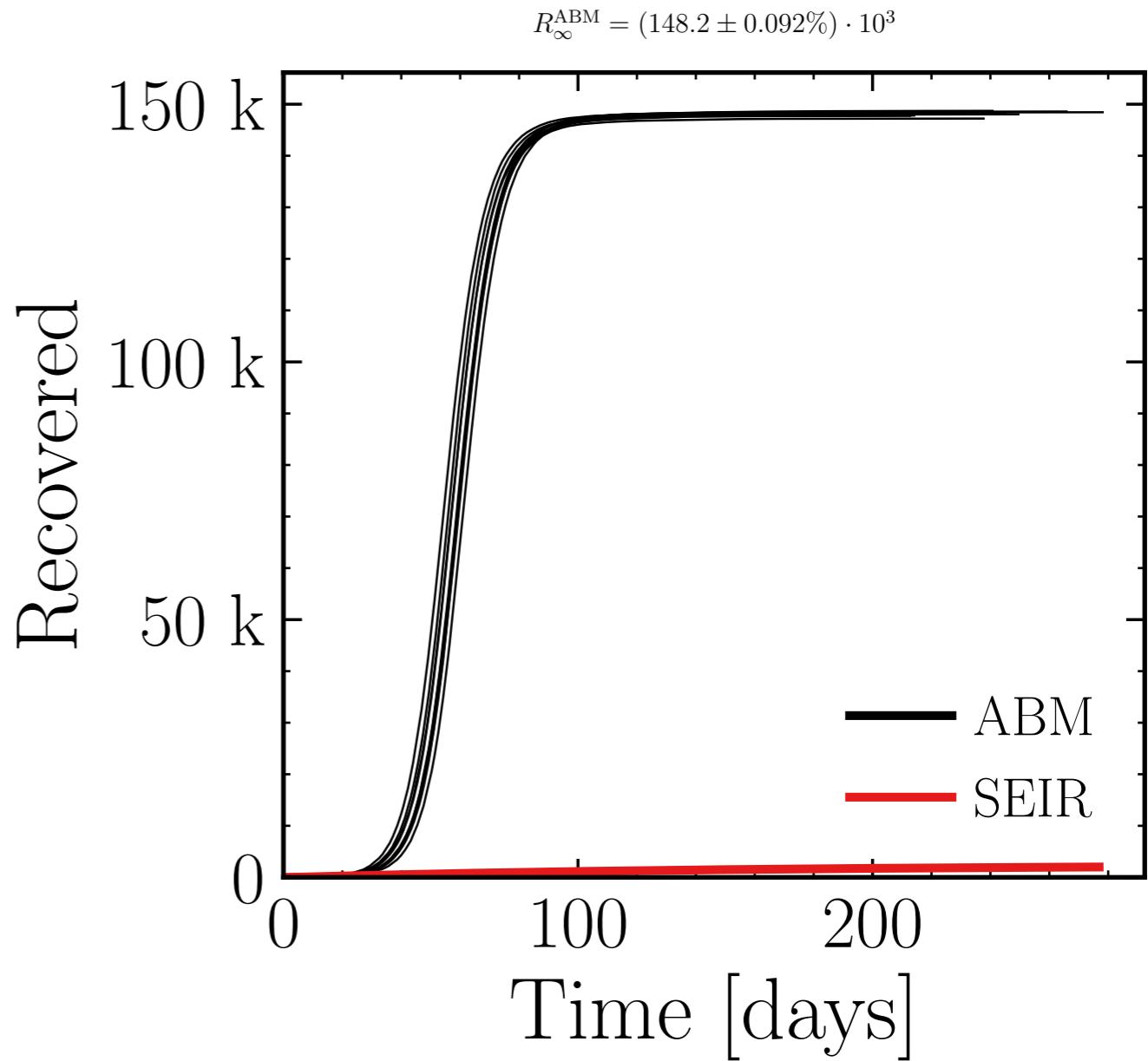
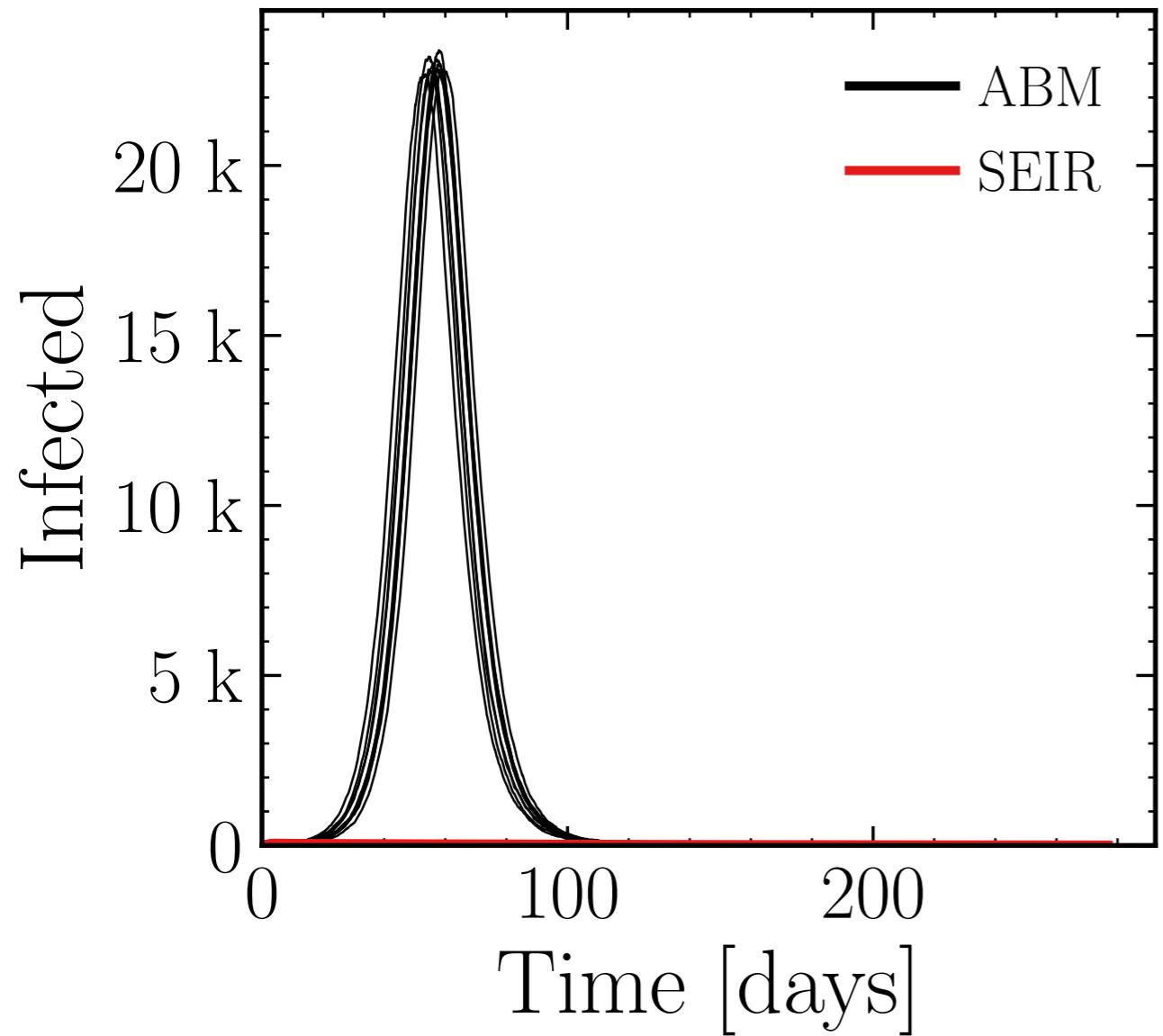


$$R_\infty^{\text{ABM}} = (129.7 \pm 0.093\%) \cdot 10^3$$



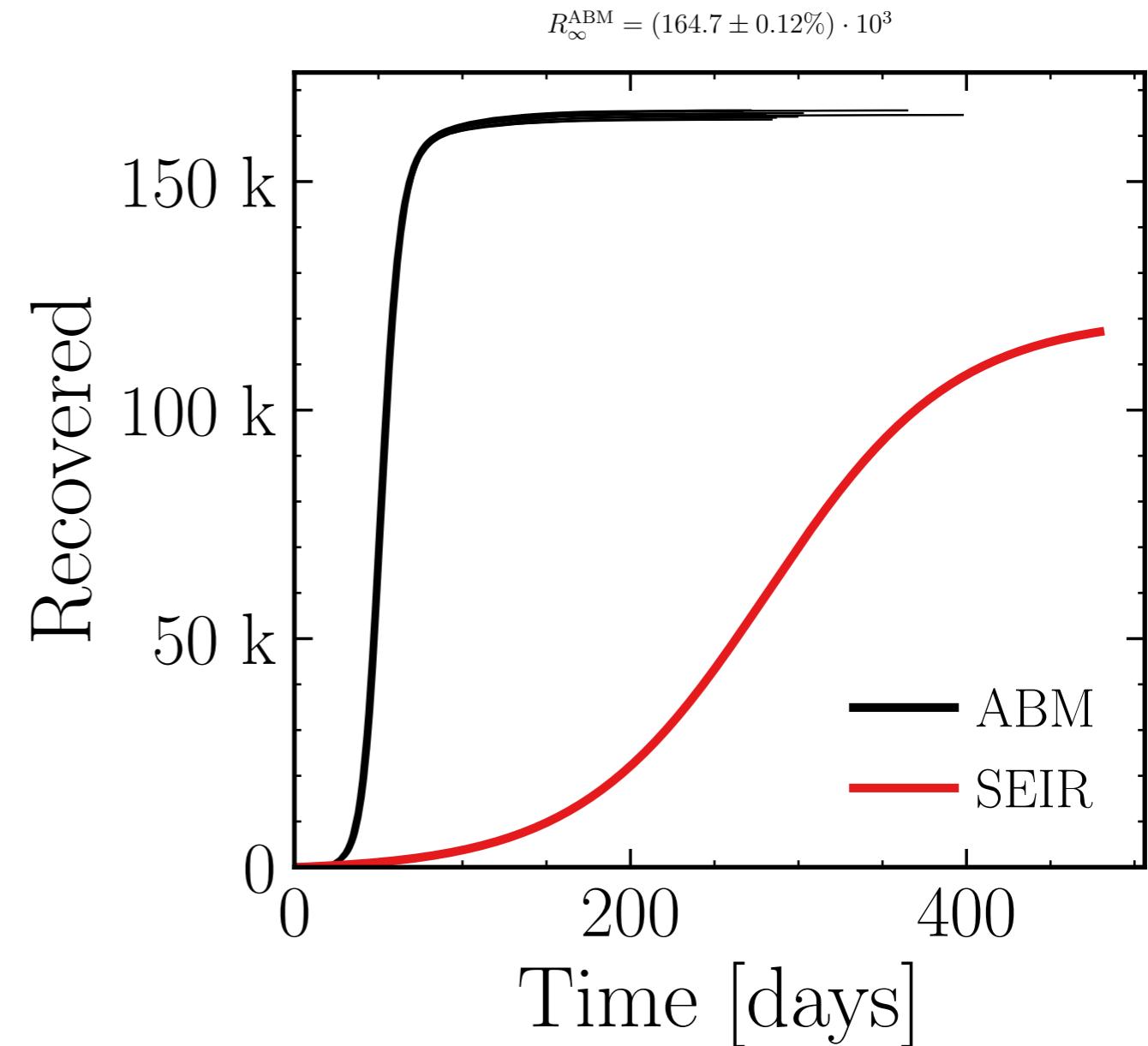
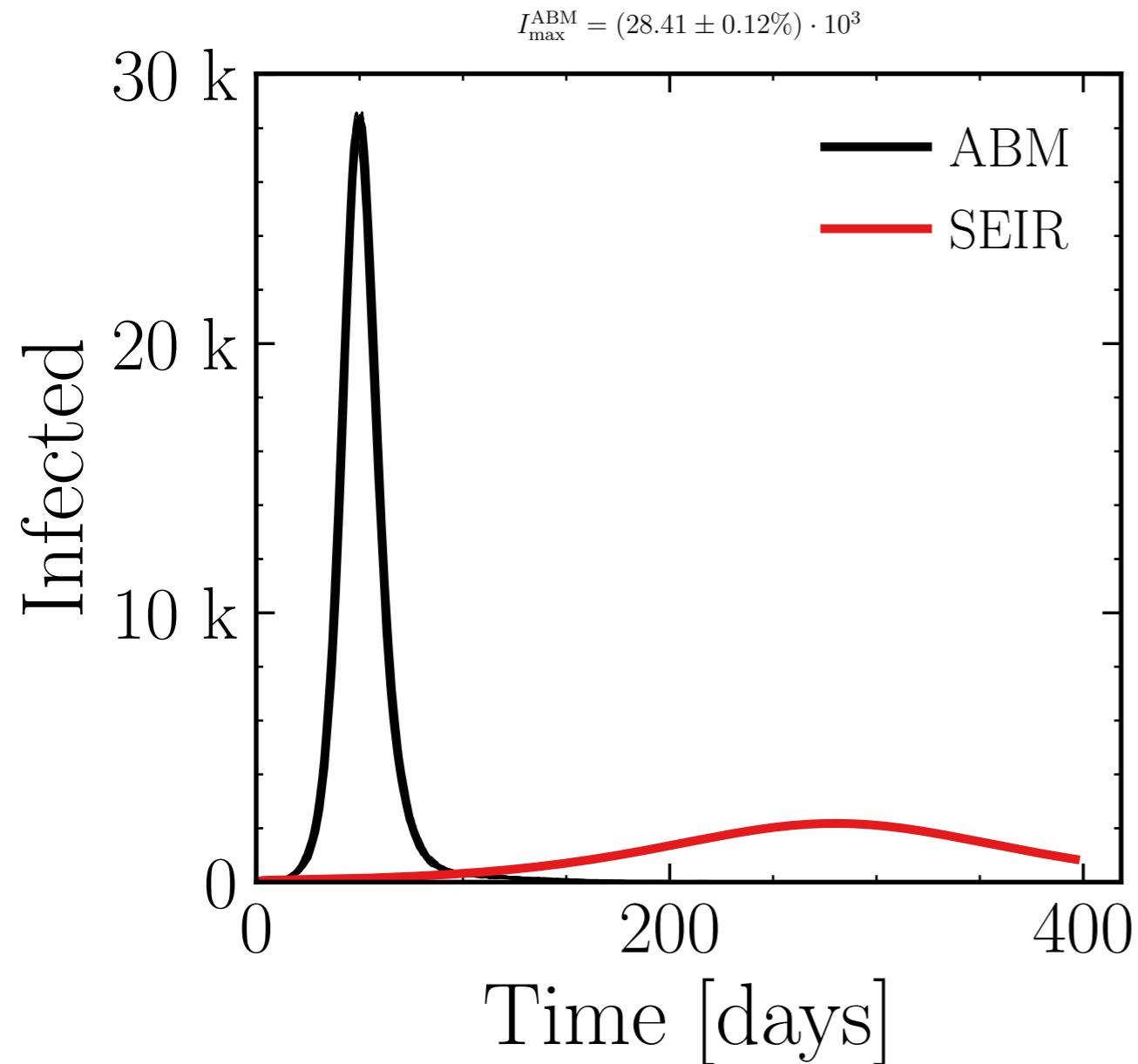
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.006$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (22.96 \pm 0.29\%) \cdot 10^3$$



$$R_\infty^{\text{ABM}} = (148.2 \pm 0.092\%) \cdot 10^3$$

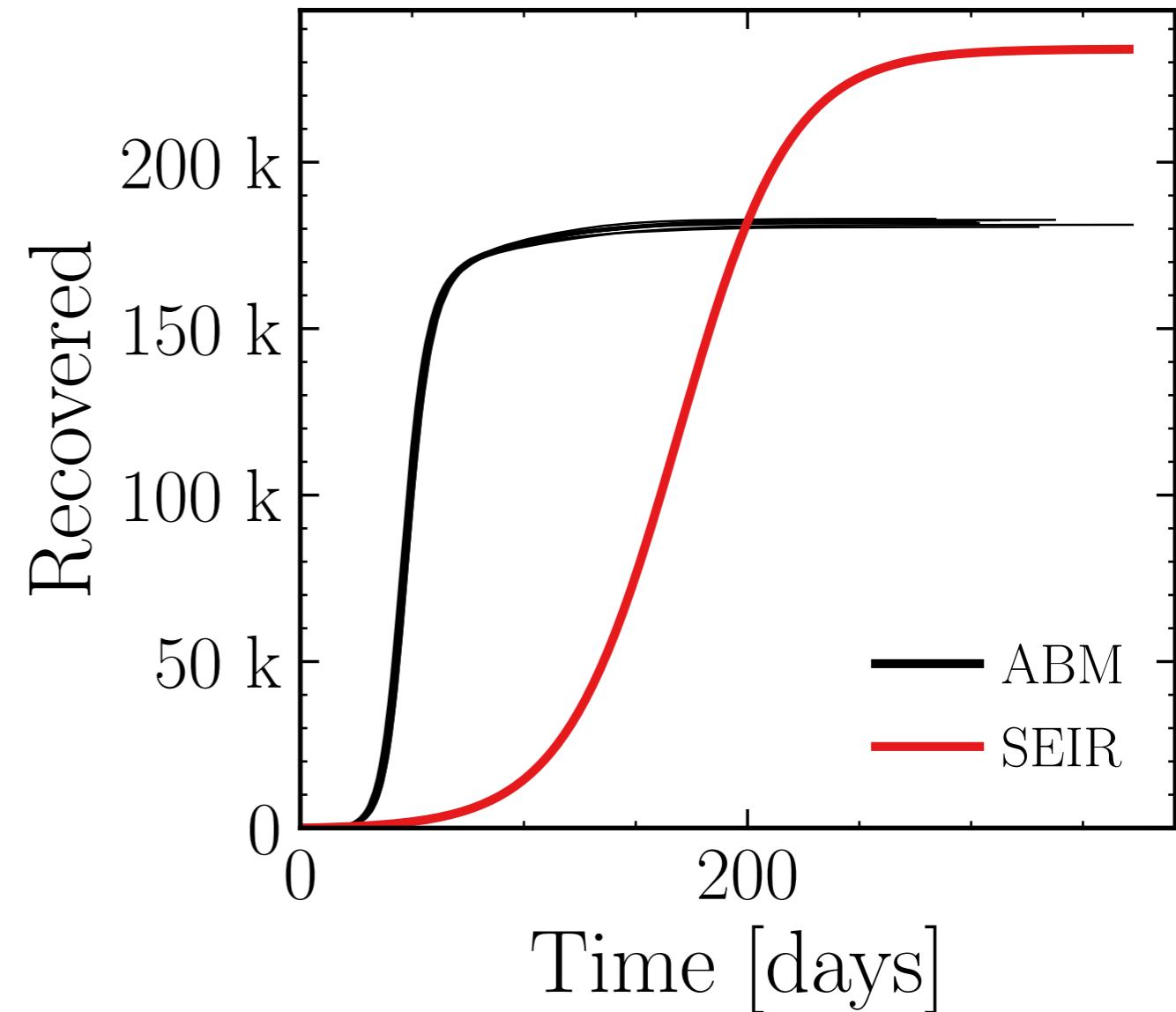
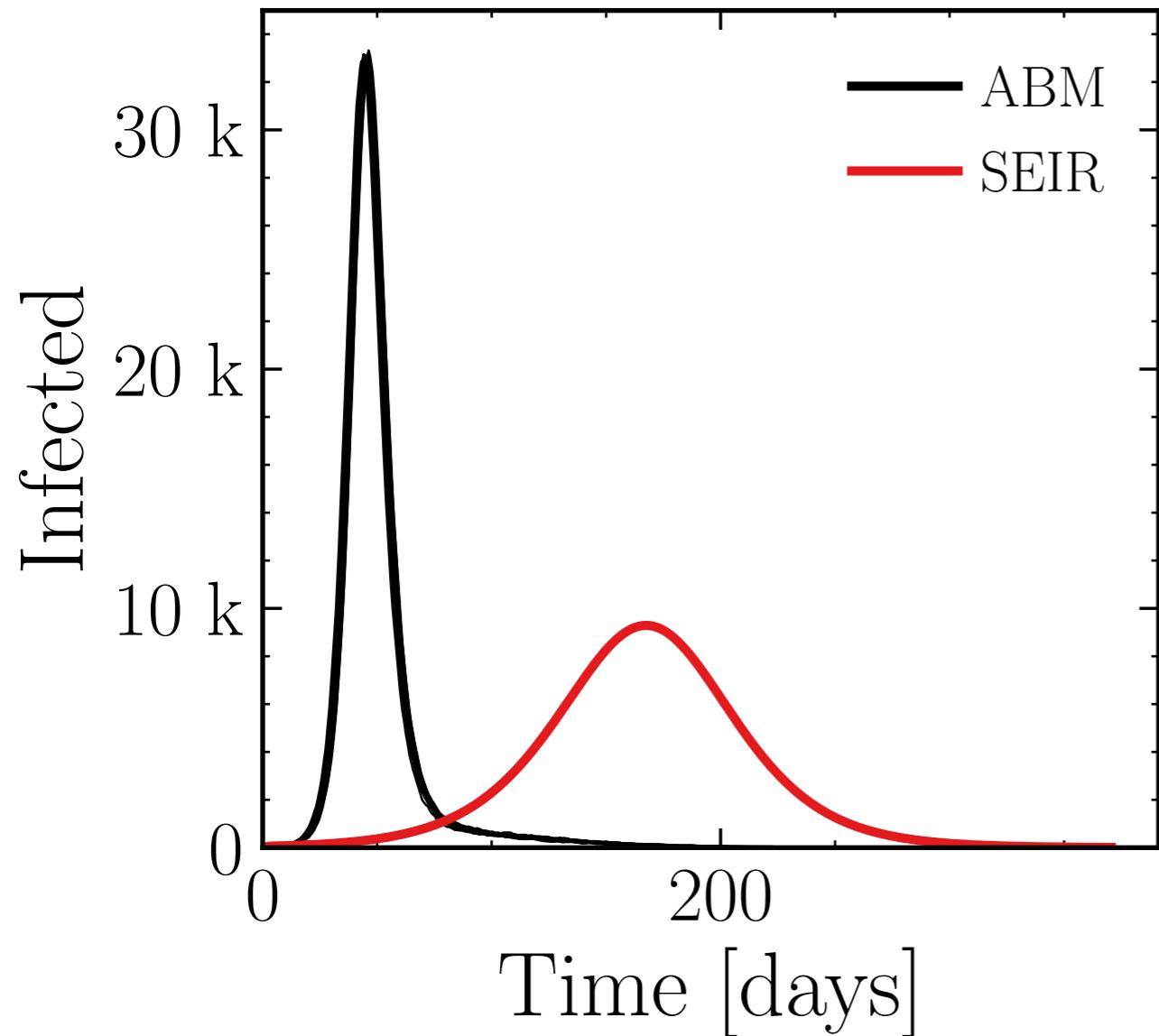
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.007$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10



$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.008$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (32.97 \pm 0.22\%) \cdot 10^3$$

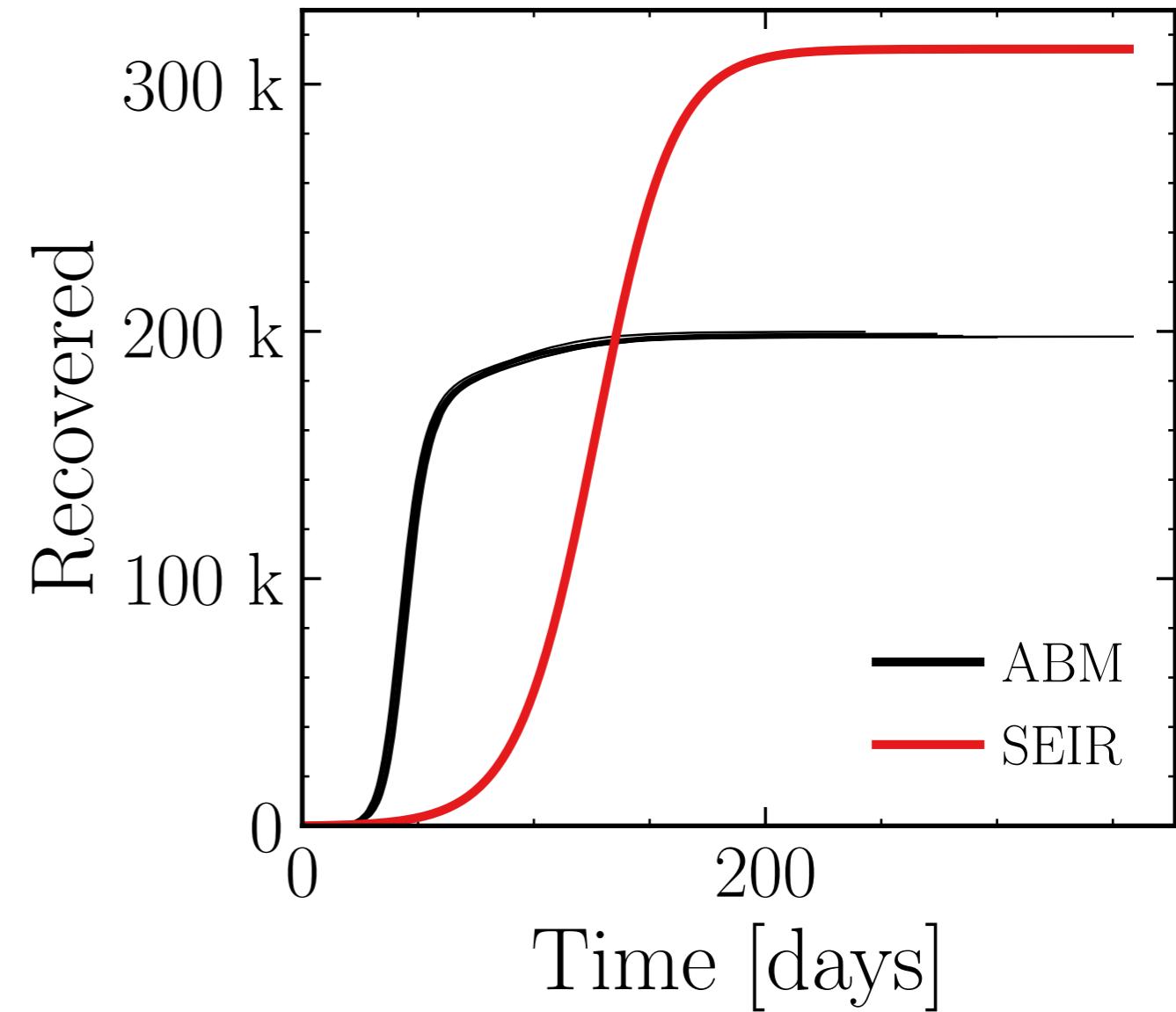
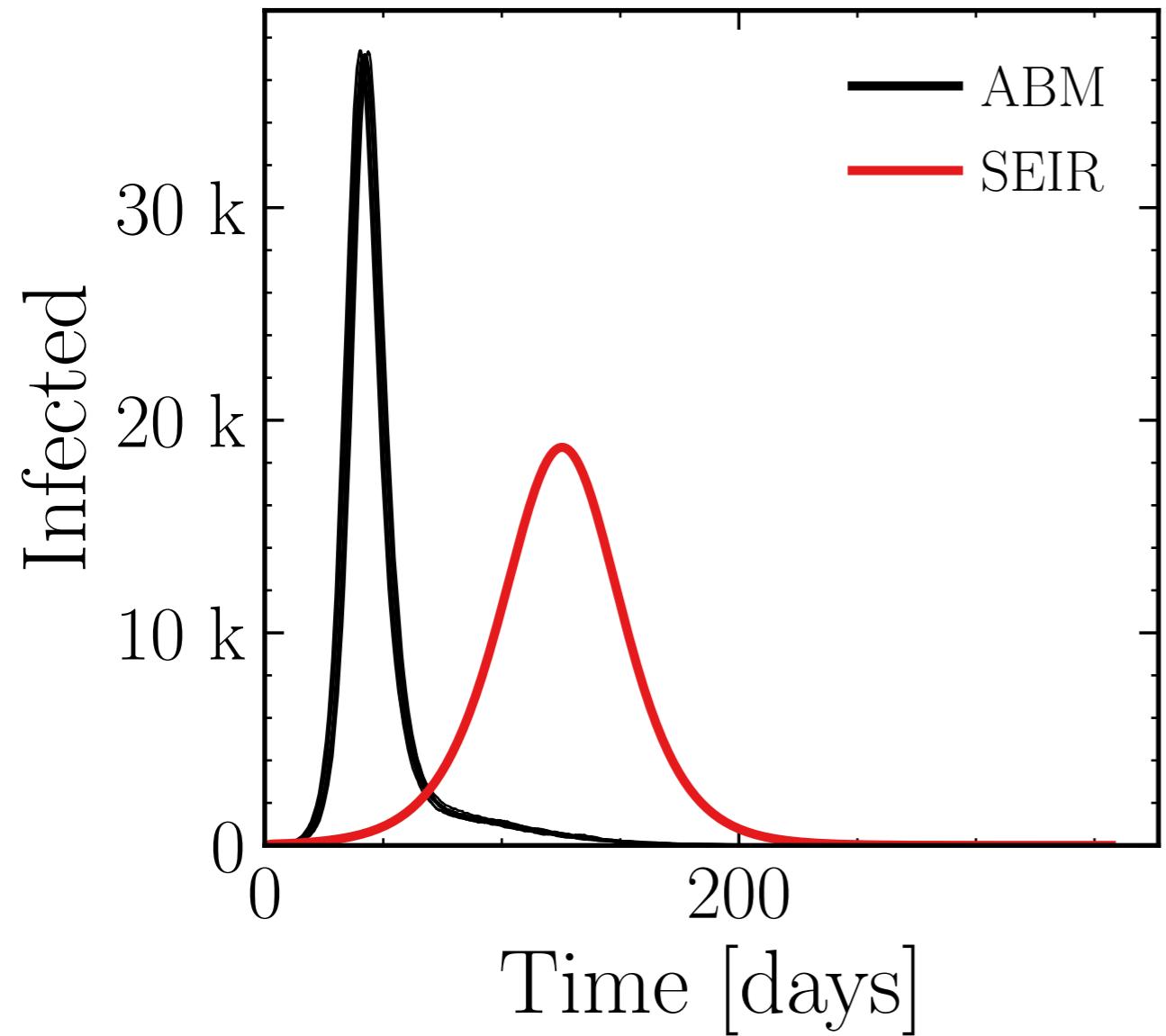
$$R_\infty^{\text{ABM}} = (182.1 \pm 0.12\%) \cdot 10^3$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.009$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (37.09 \pm 0.19\%) \cdot 10^3$$

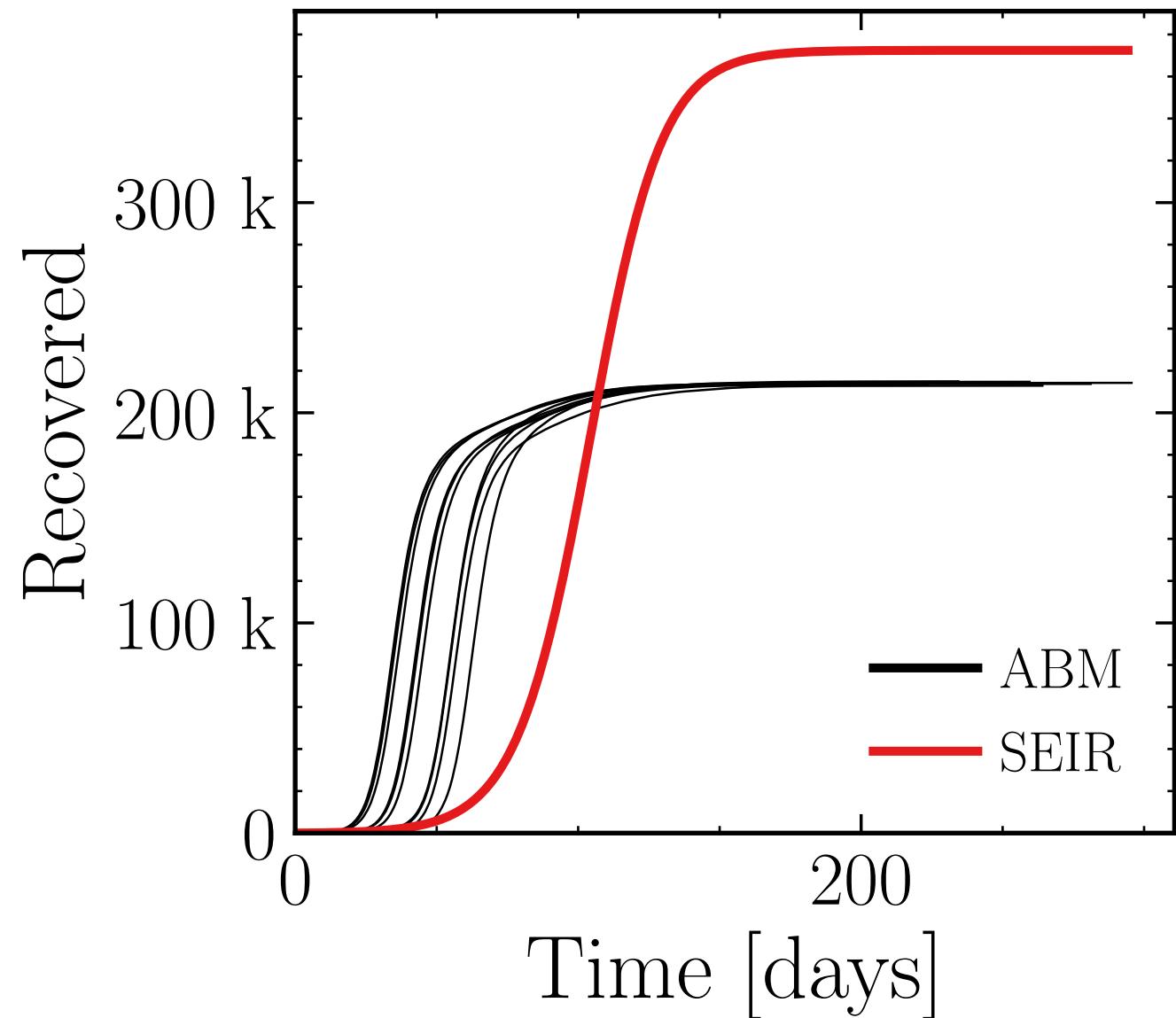
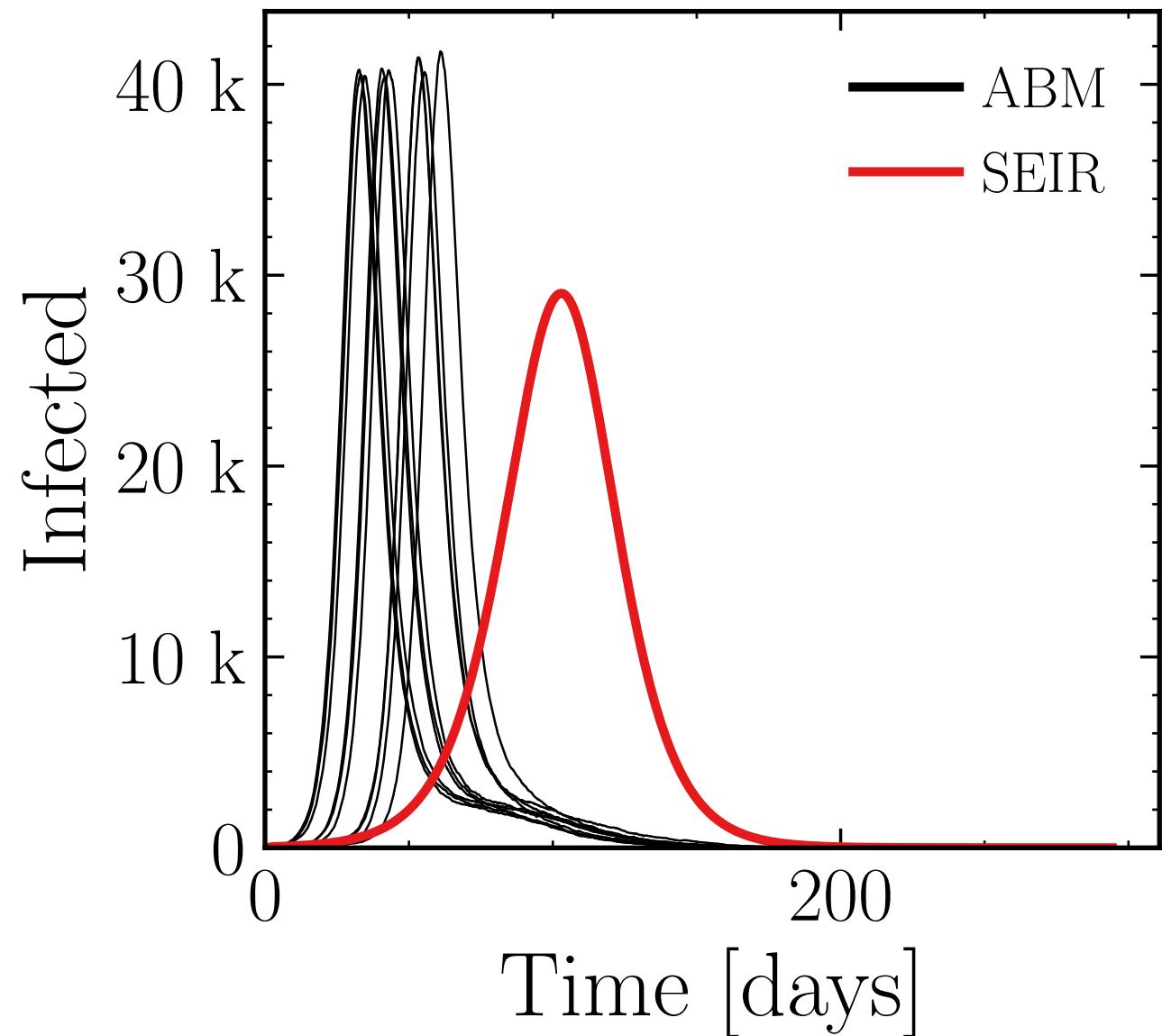
$$R_\infty^{\text{ABM}} = (198.3 \pm 0.1\%) \cdot 10^3$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = False,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (40.9 \pm 0.35\%) \cdot 10^3$$

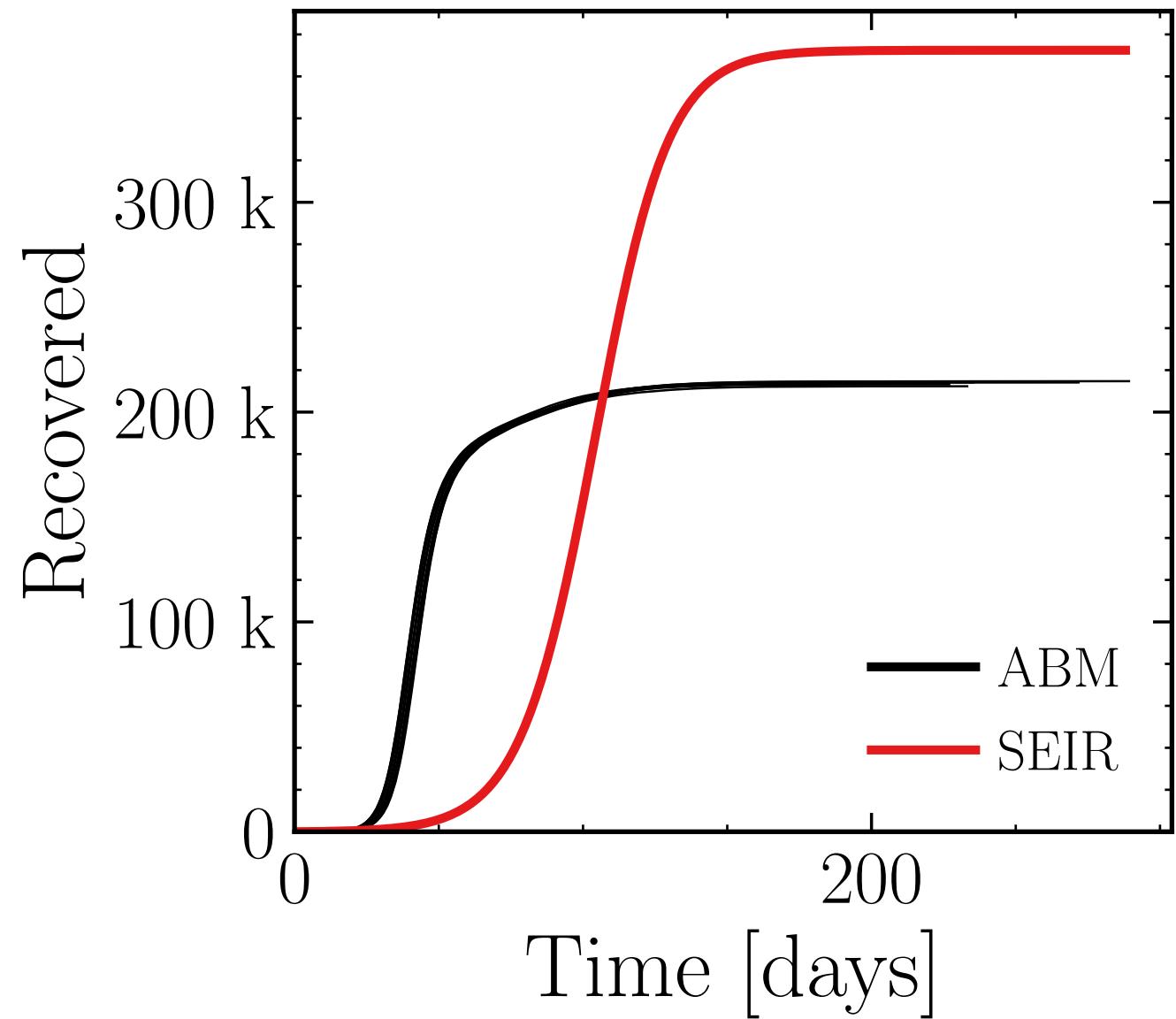
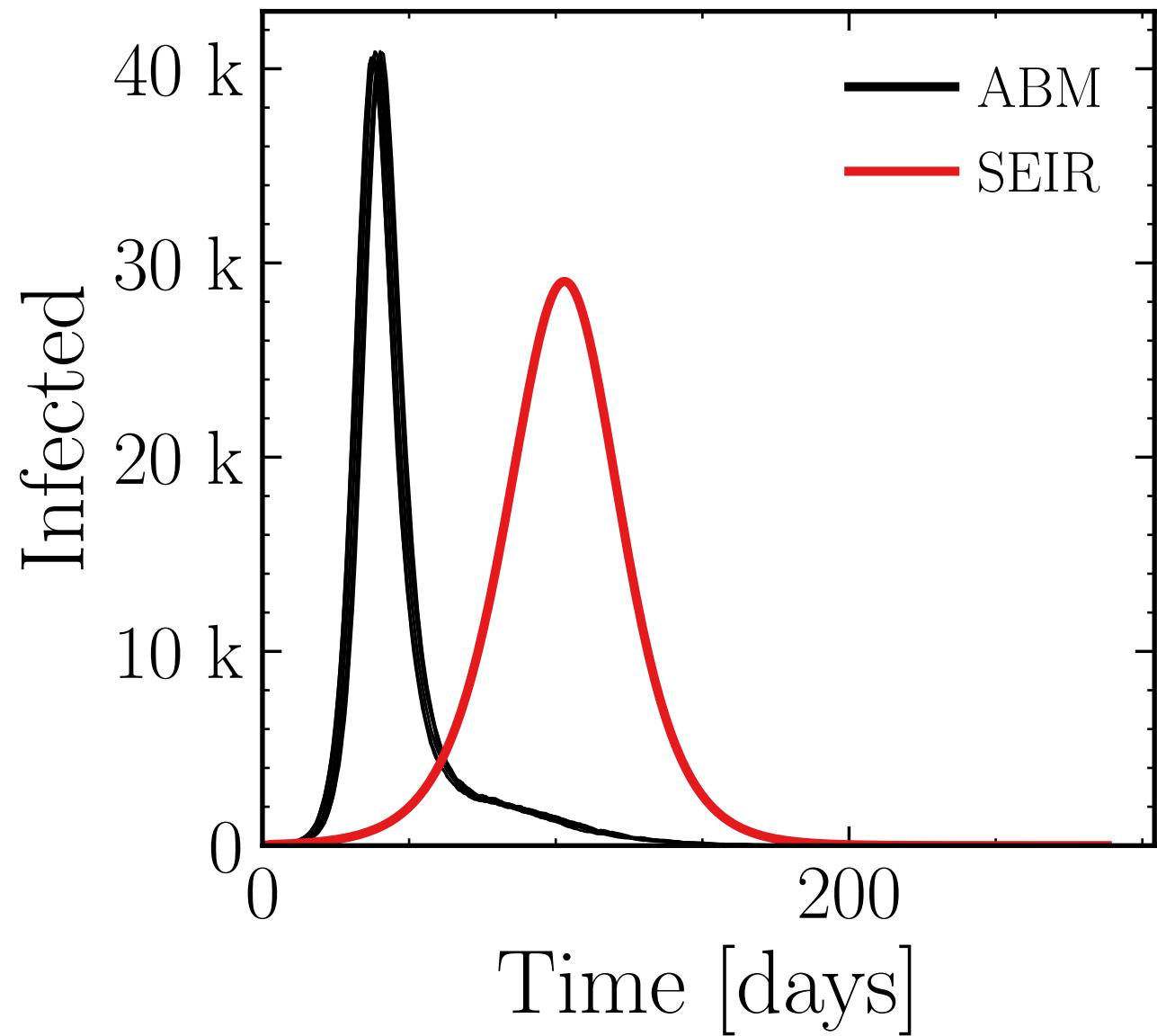
$$R_\infty^{\text{ABM}} = (214.1 \pm 0.083\%) \cdot 10^3$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (40.69 \pm 0.13\%) \cdot 10^3$$

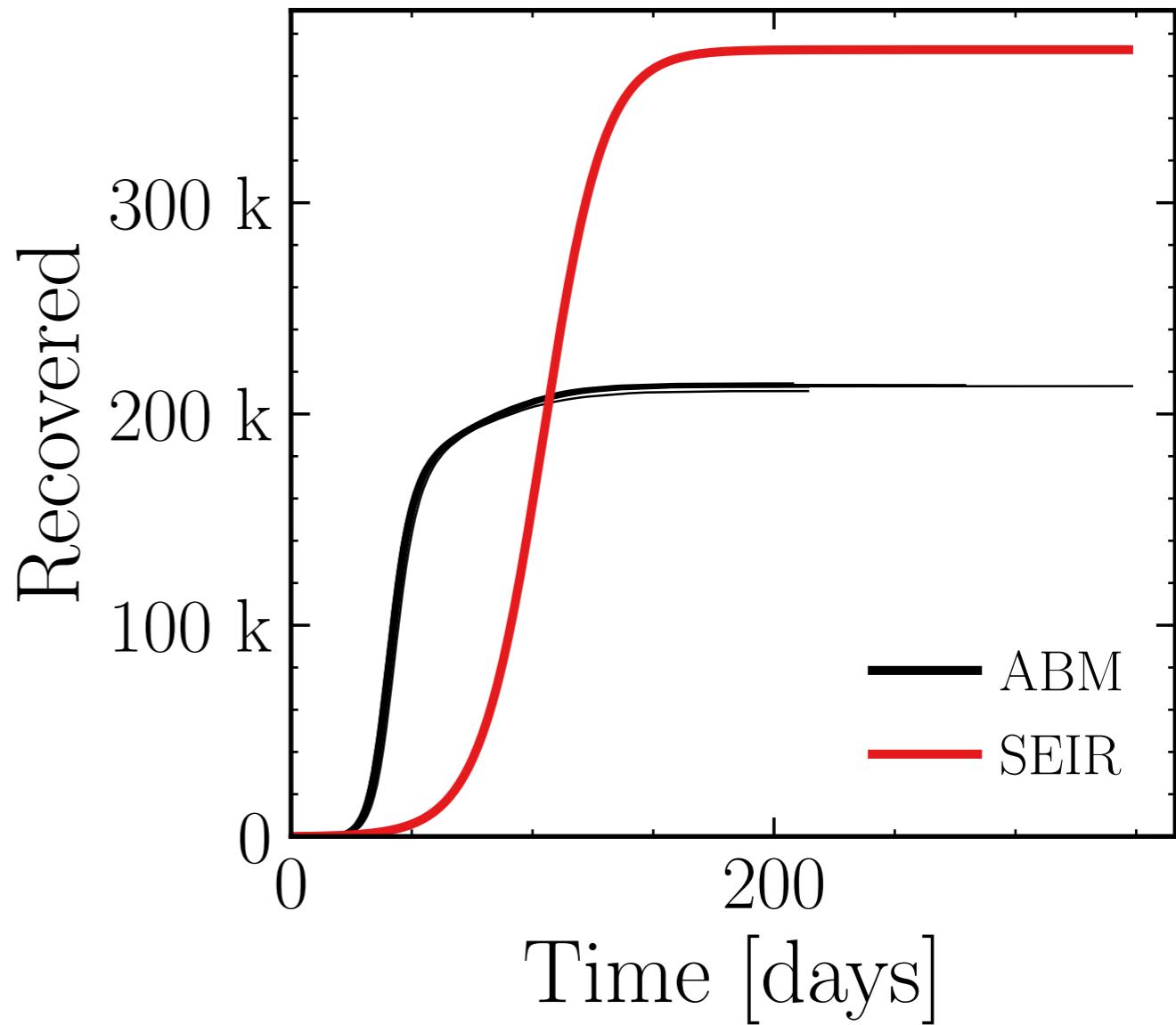
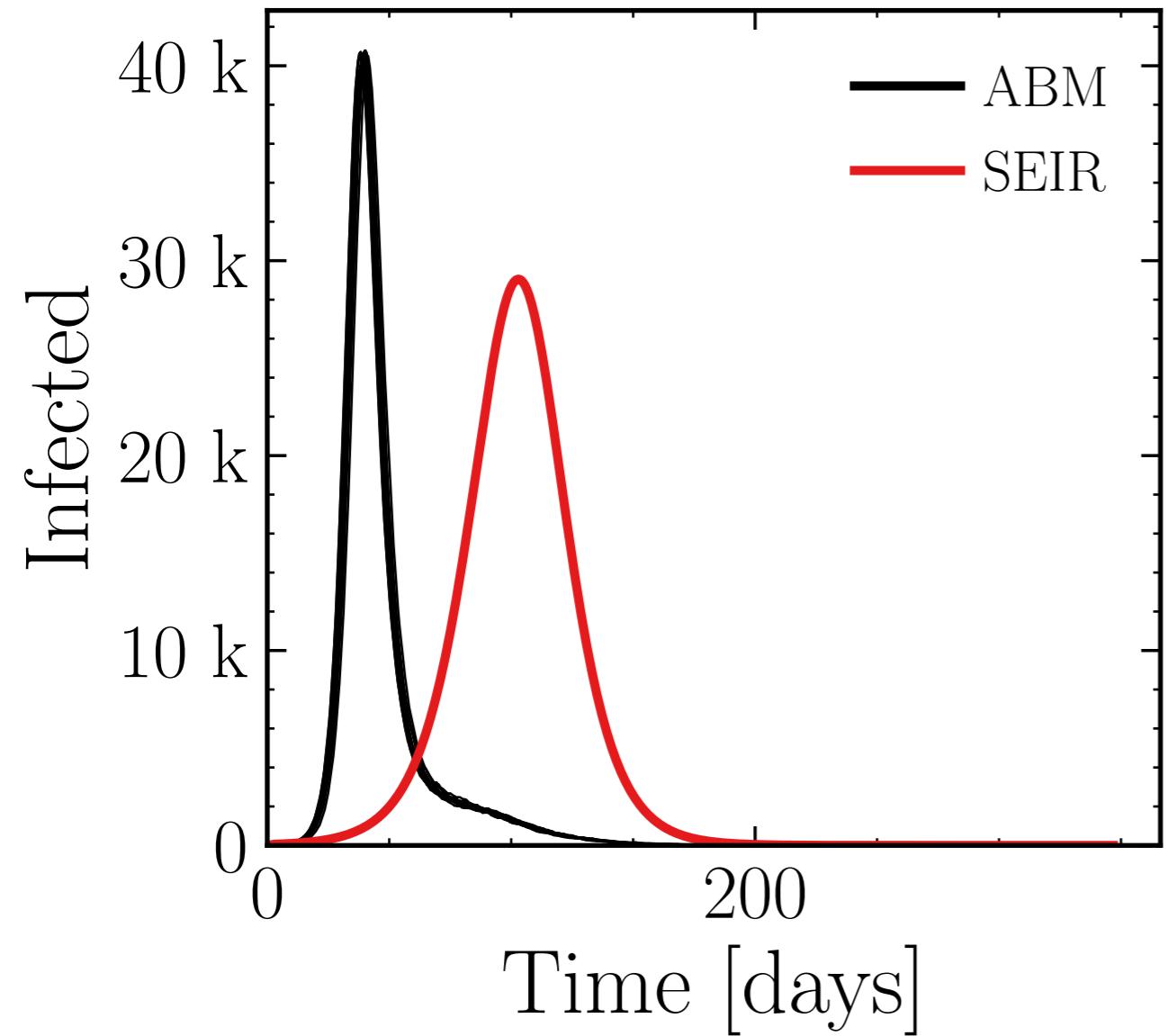
$$R_\infty^{\text{ABM}} = (214 \pm 0.1\%) \cdot 10^3$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.25$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (40.53 \pm 0.16\%) \cdot 10^3$$

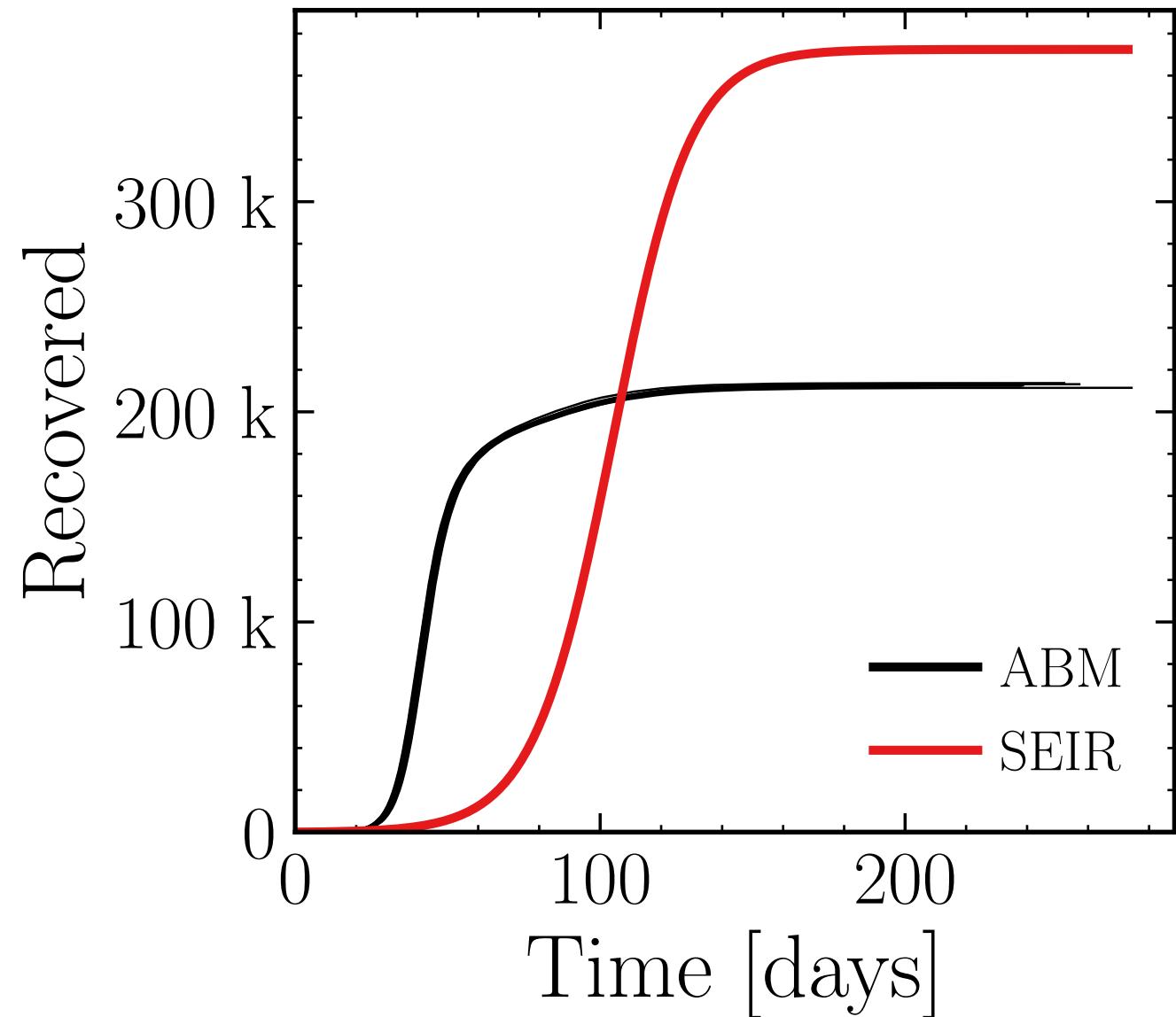
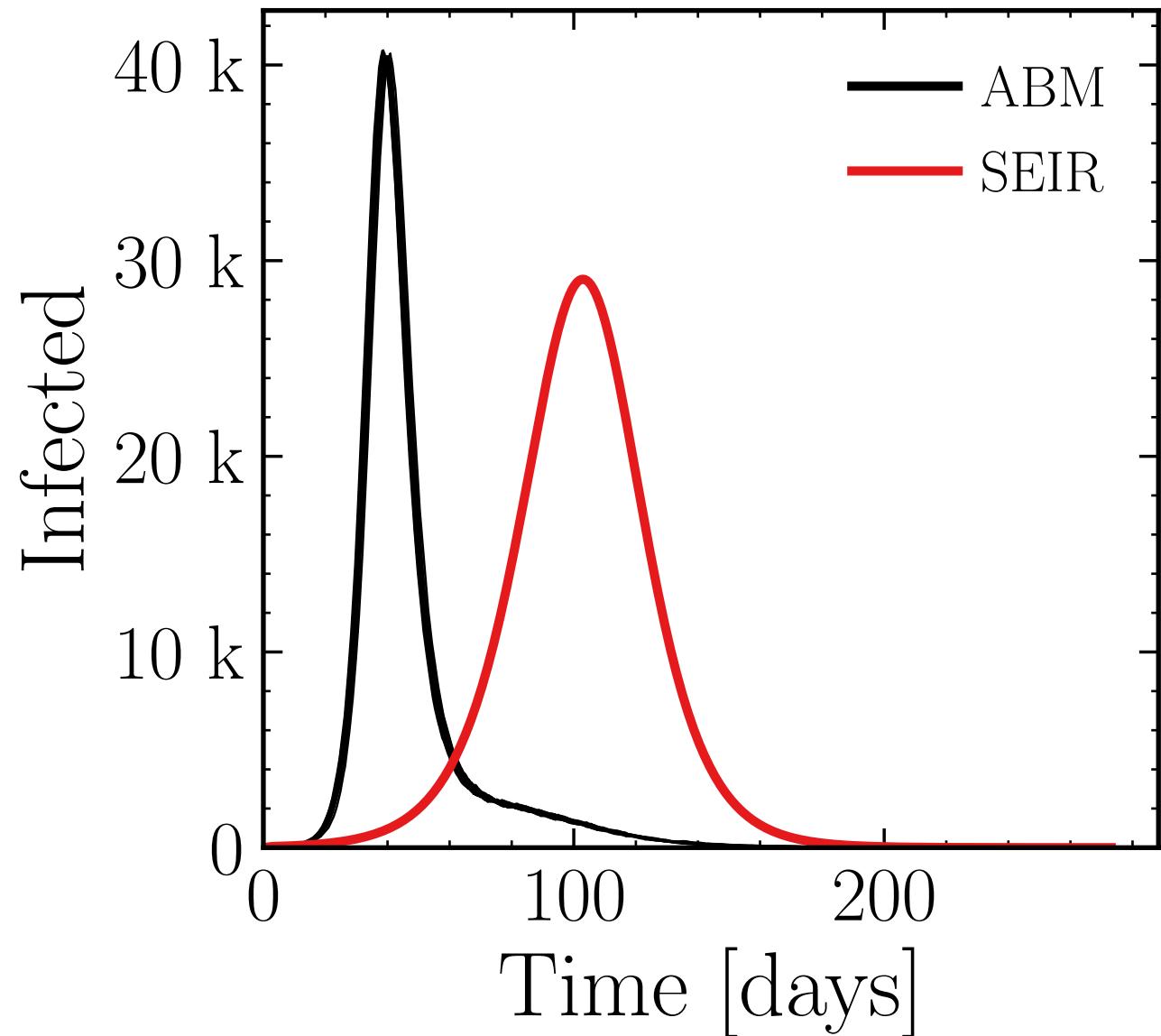
$$R_\infty^{\text{ABM}} = (213.3 \pm 0.13\%) \cdot 10^3$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.5$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (40.45 \pm 0.13\%) \cdot 10^3$$

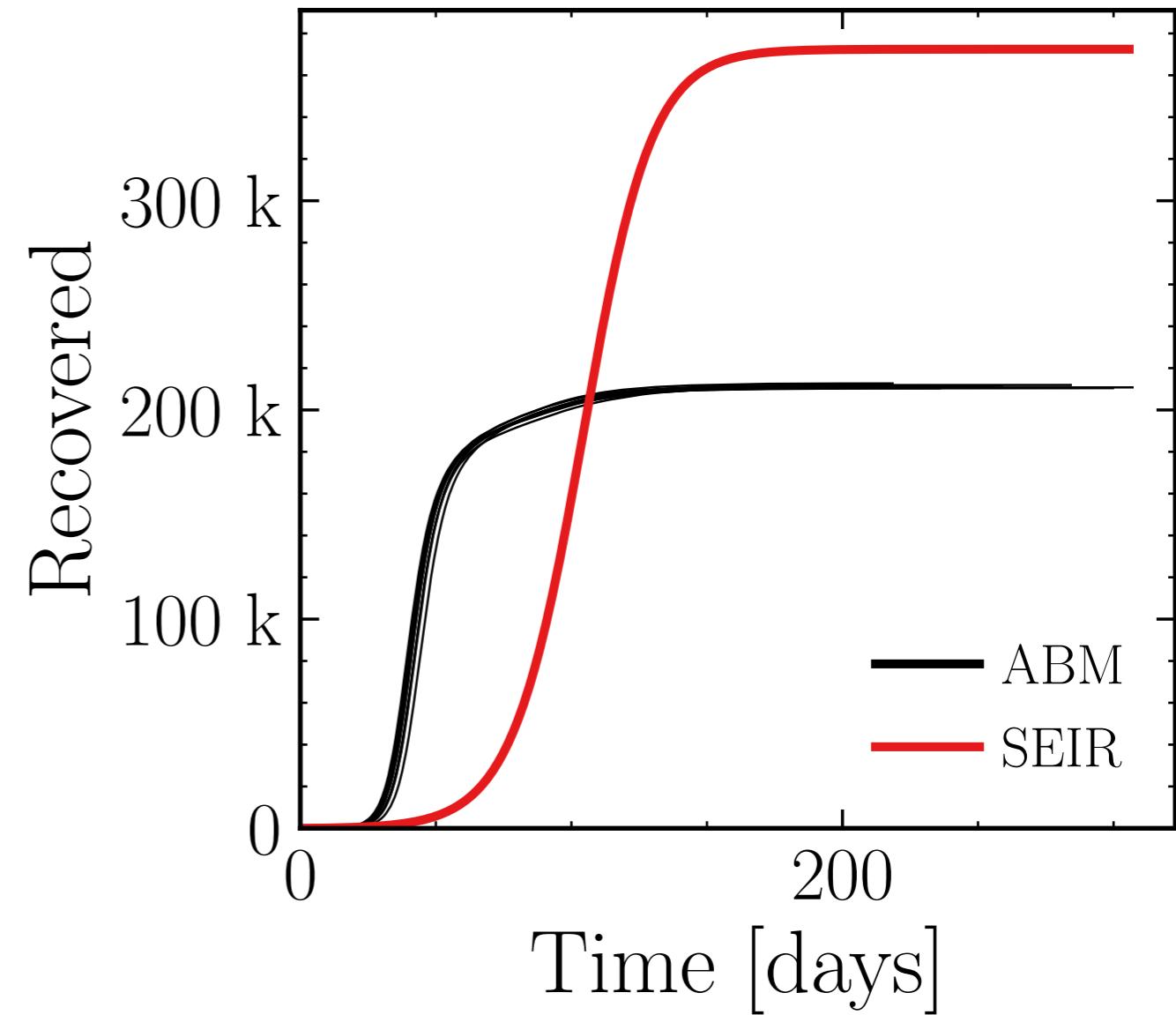
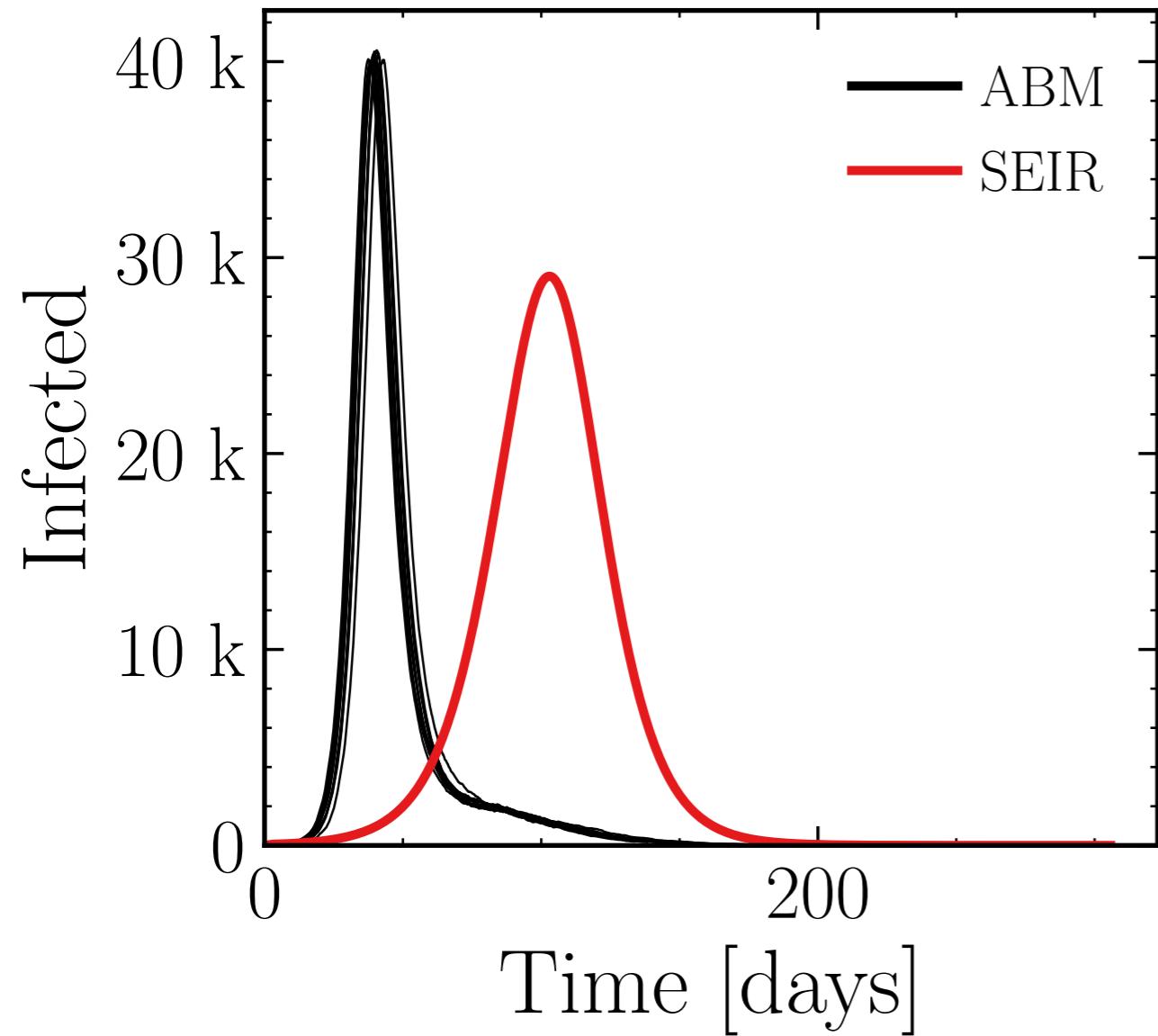
$$R_\infty^{\text{ABM}} = (212.5 \pm 0.094\%) \cdot 10^3$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.75$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (40.22 \pm 0.16\%) \cdot 10^3$$

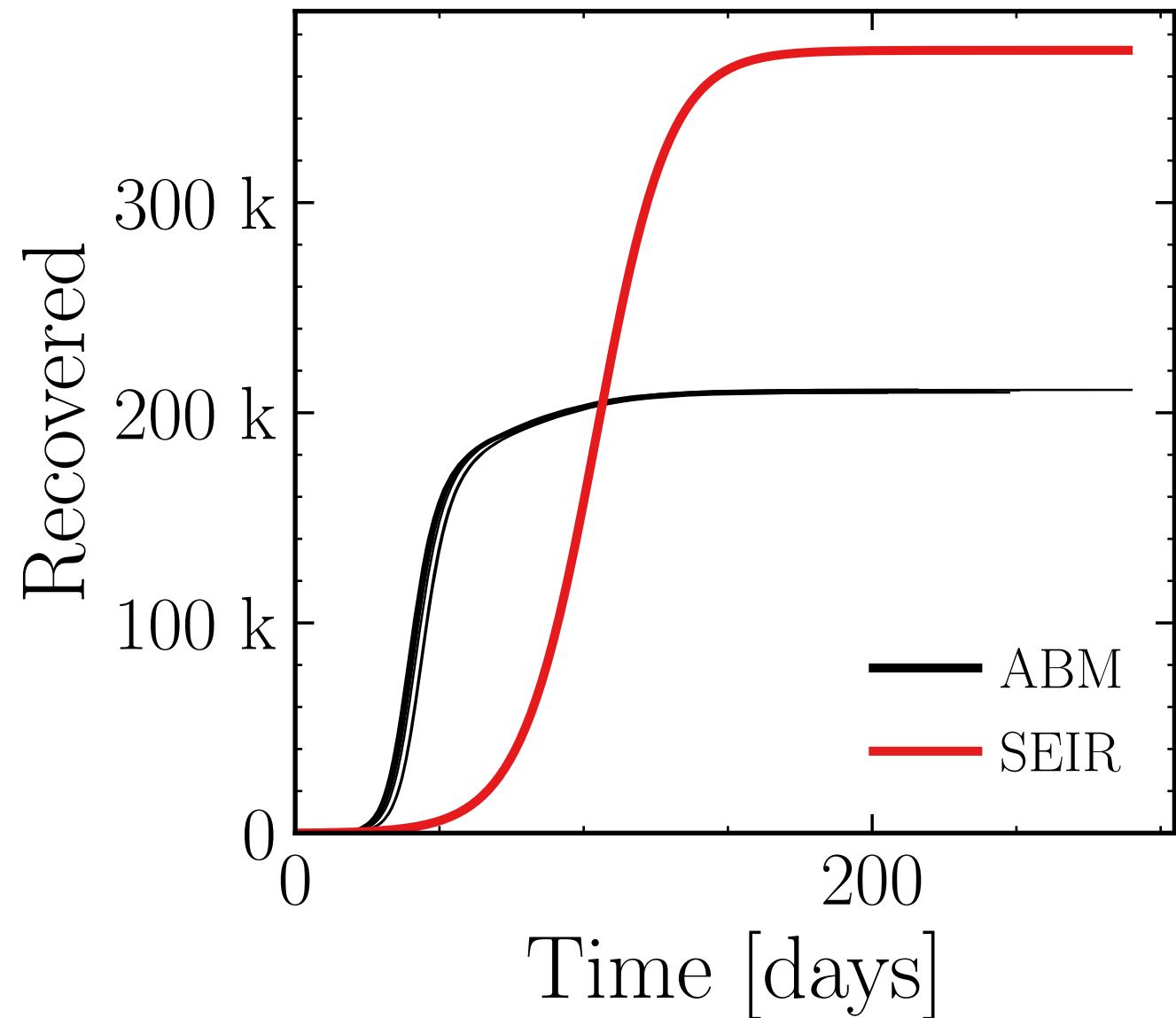
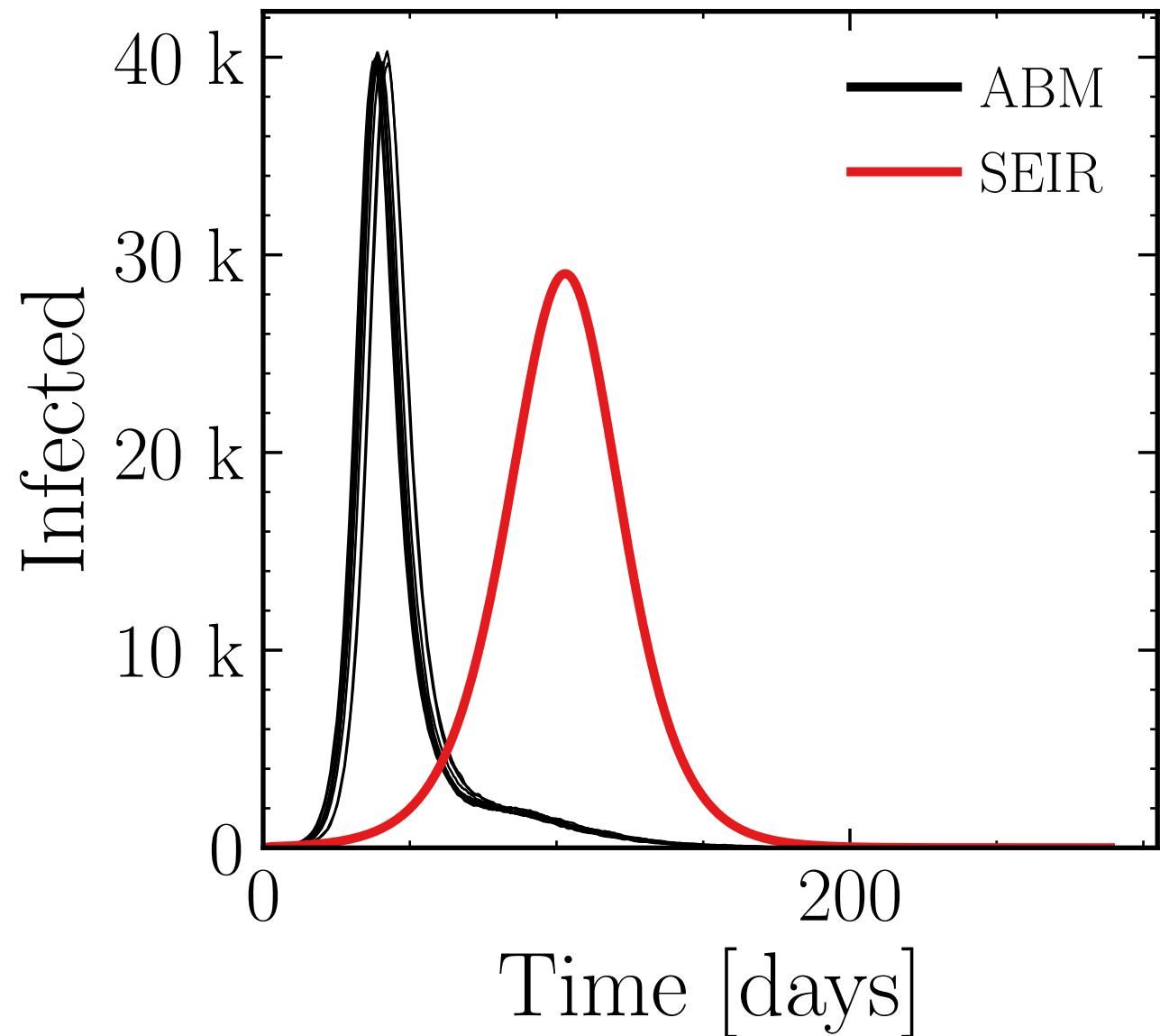
$$R_\infty^{\text{ABM}} = (211.2 \pm 0.11\%) \cdot 10^3$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 1.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

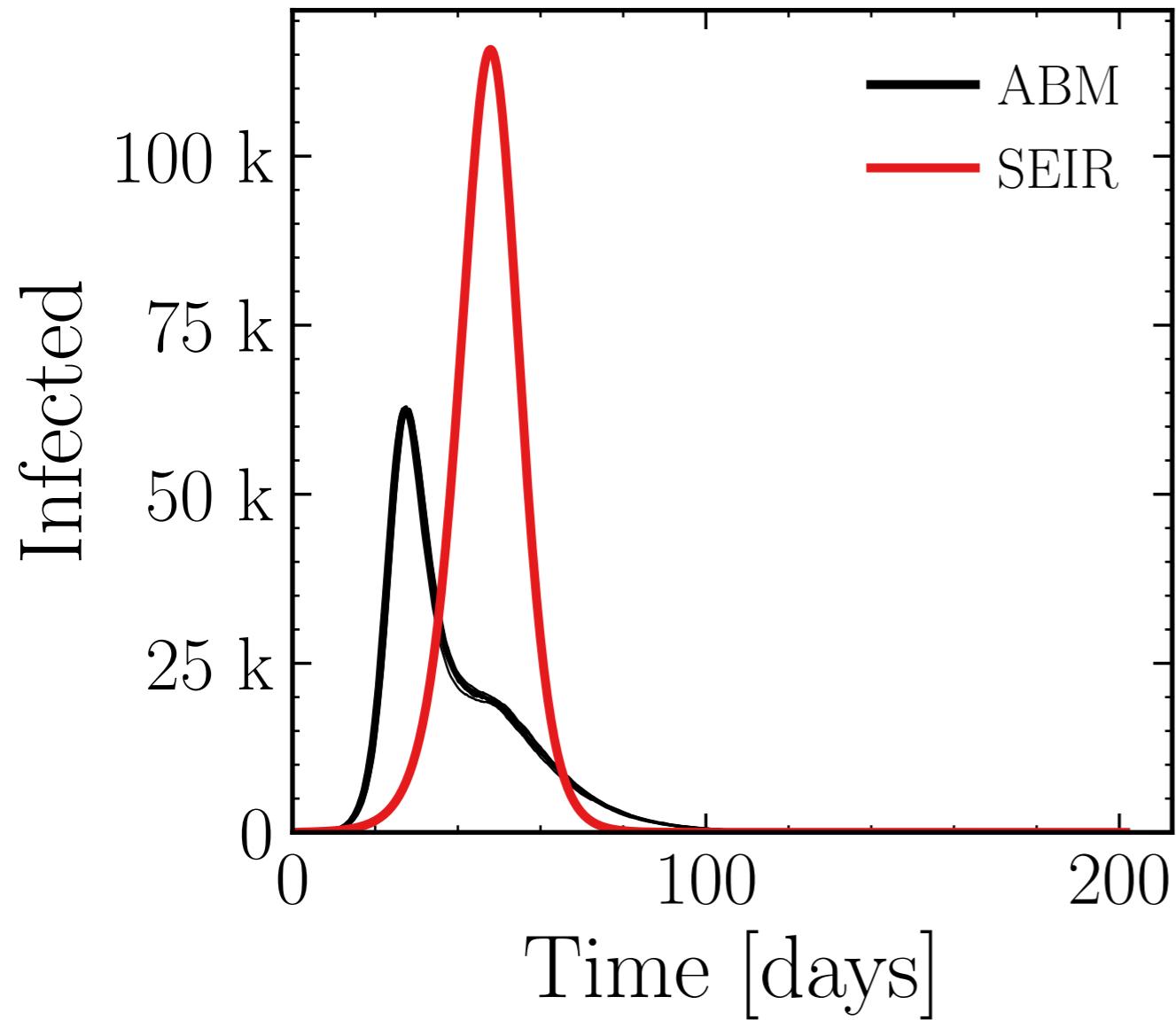
$$I_{\max}^{\text{ABM}} = (39.98 \pm 0.17\%) \cdot 10^3$$

$$R_\infty^{\text{ABM}} = (210.4 \pm 0.075\%) \cdot 10^3$$

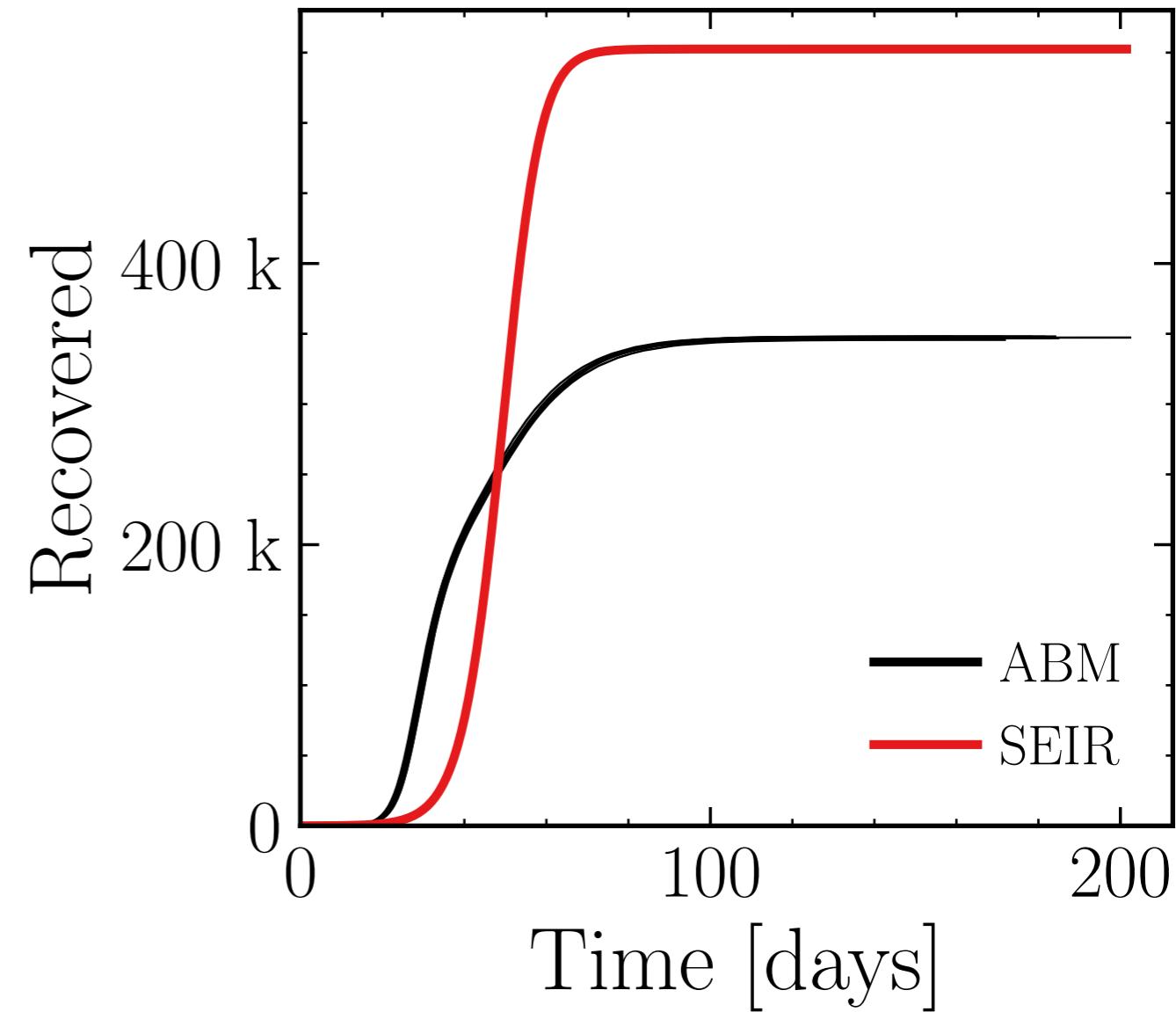


$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.02$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

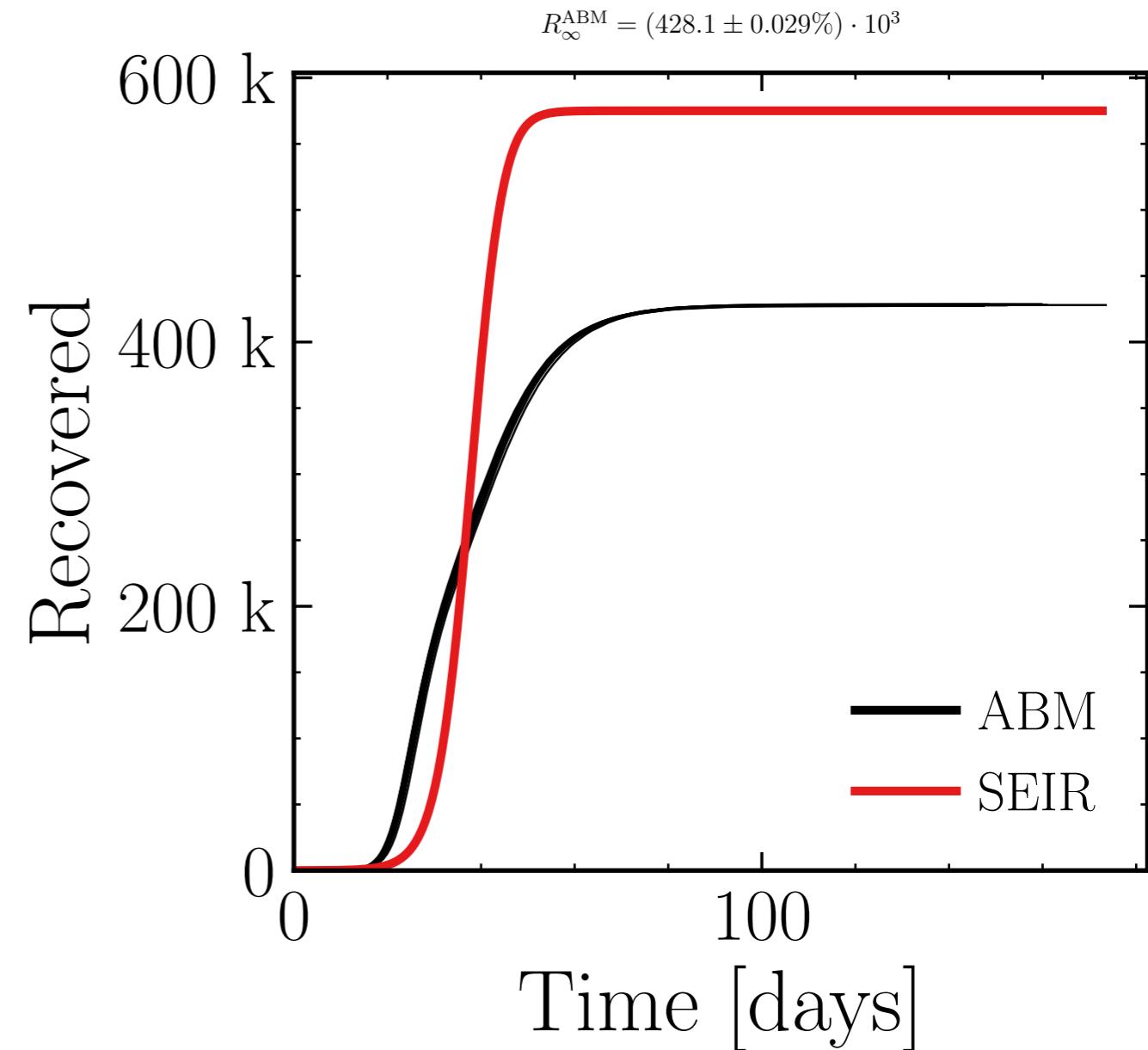
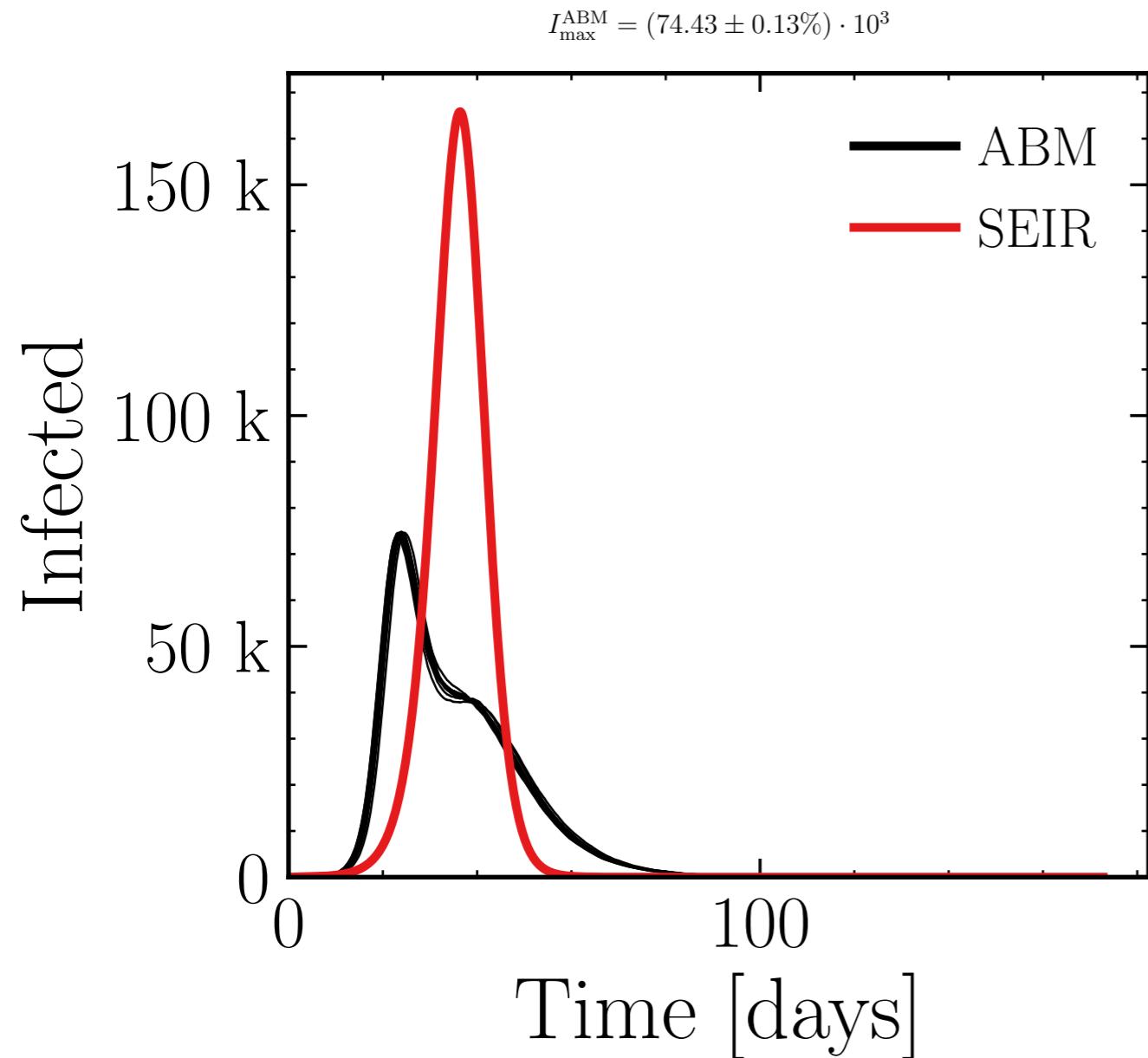
$$I_{\max}^{\text{ABM}} = (62.59 \pm 0.14\%) \cdot 10^3$$



$$R_{\infty}^{\text{ABM}} = (347.4 \pm 0.066\%) \cdot 10^3$$

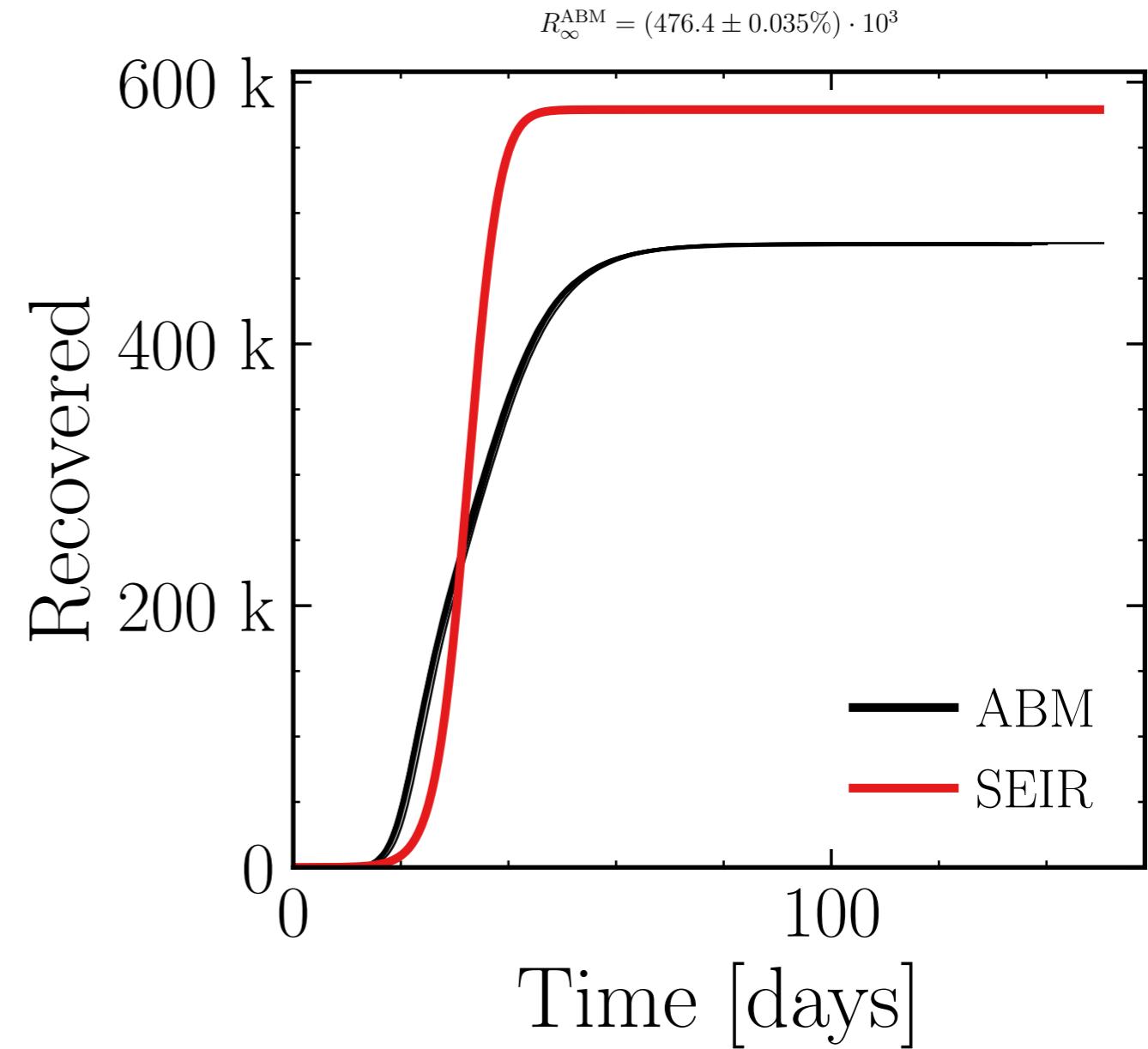
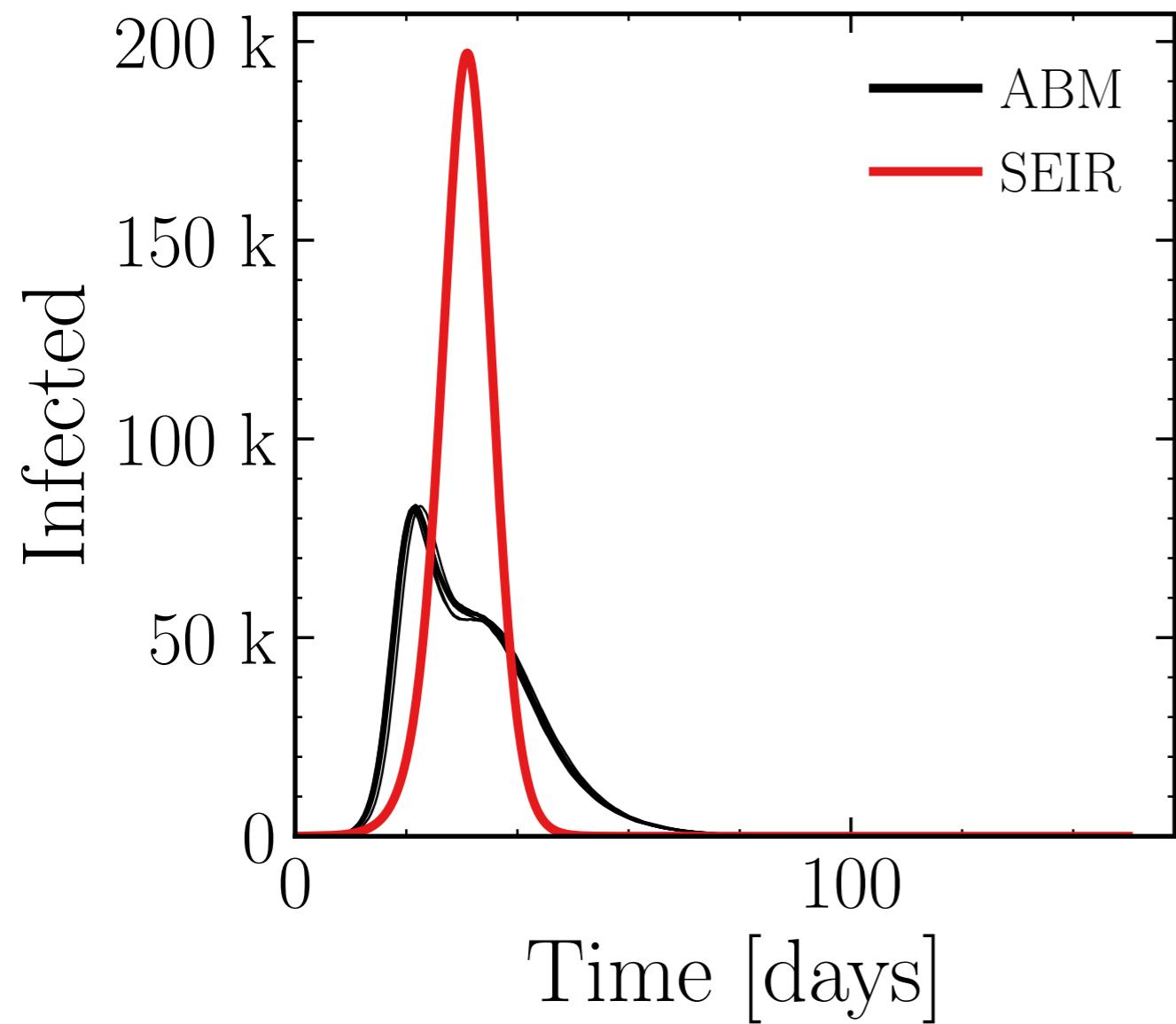


$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.03$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

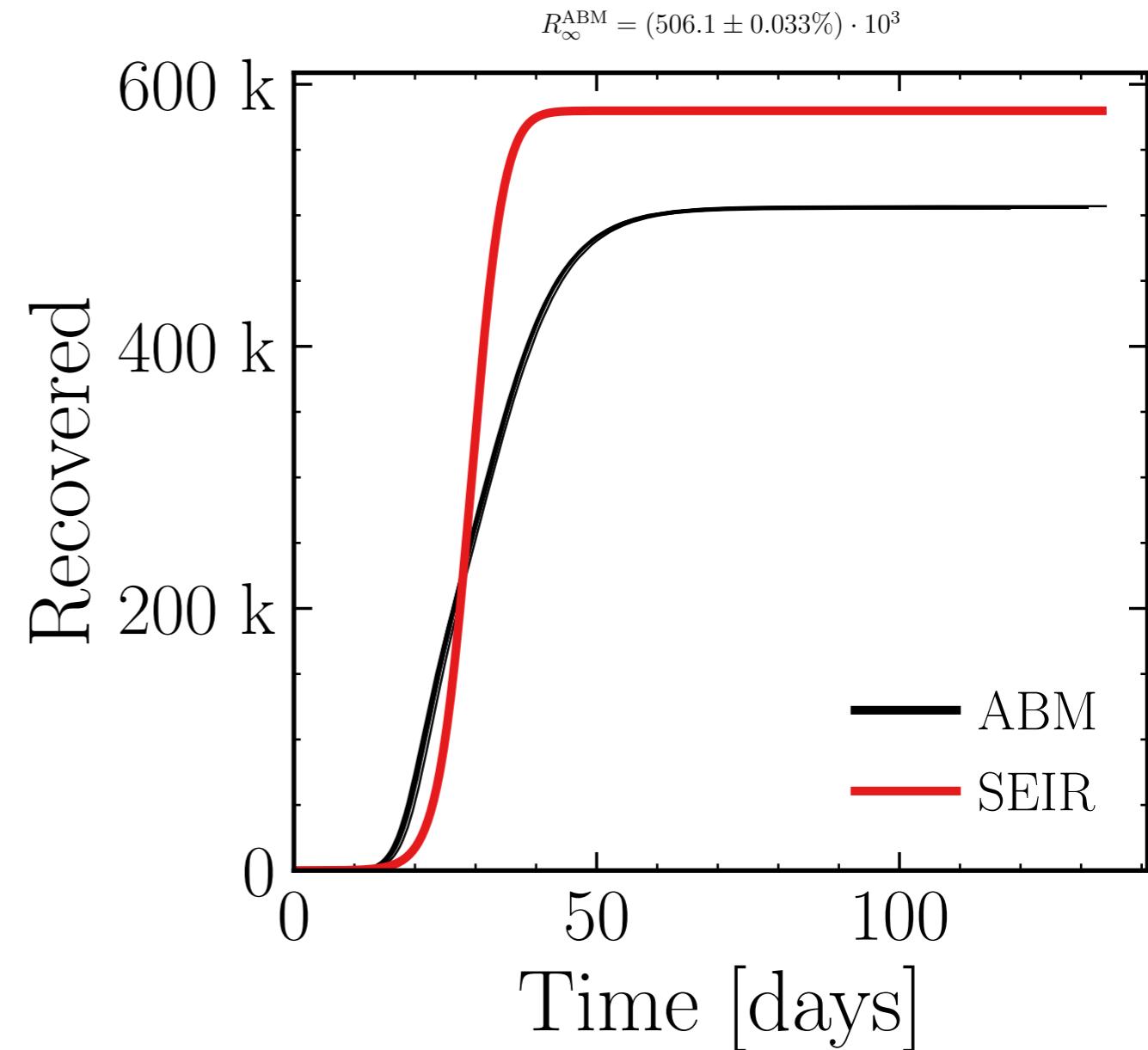
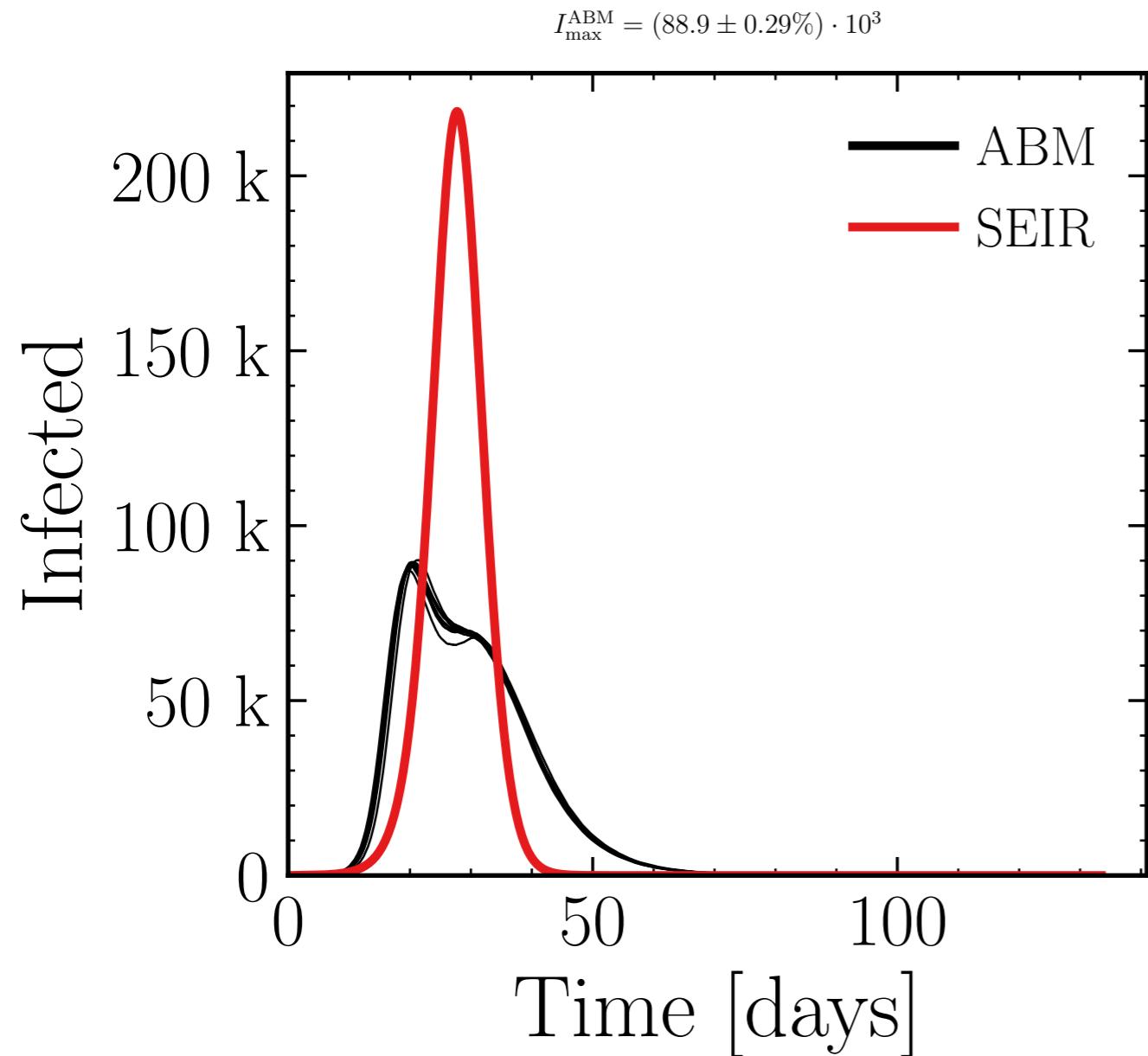


$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.04$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (82.7 \pm 0.19\%) \cdot 10^3$$



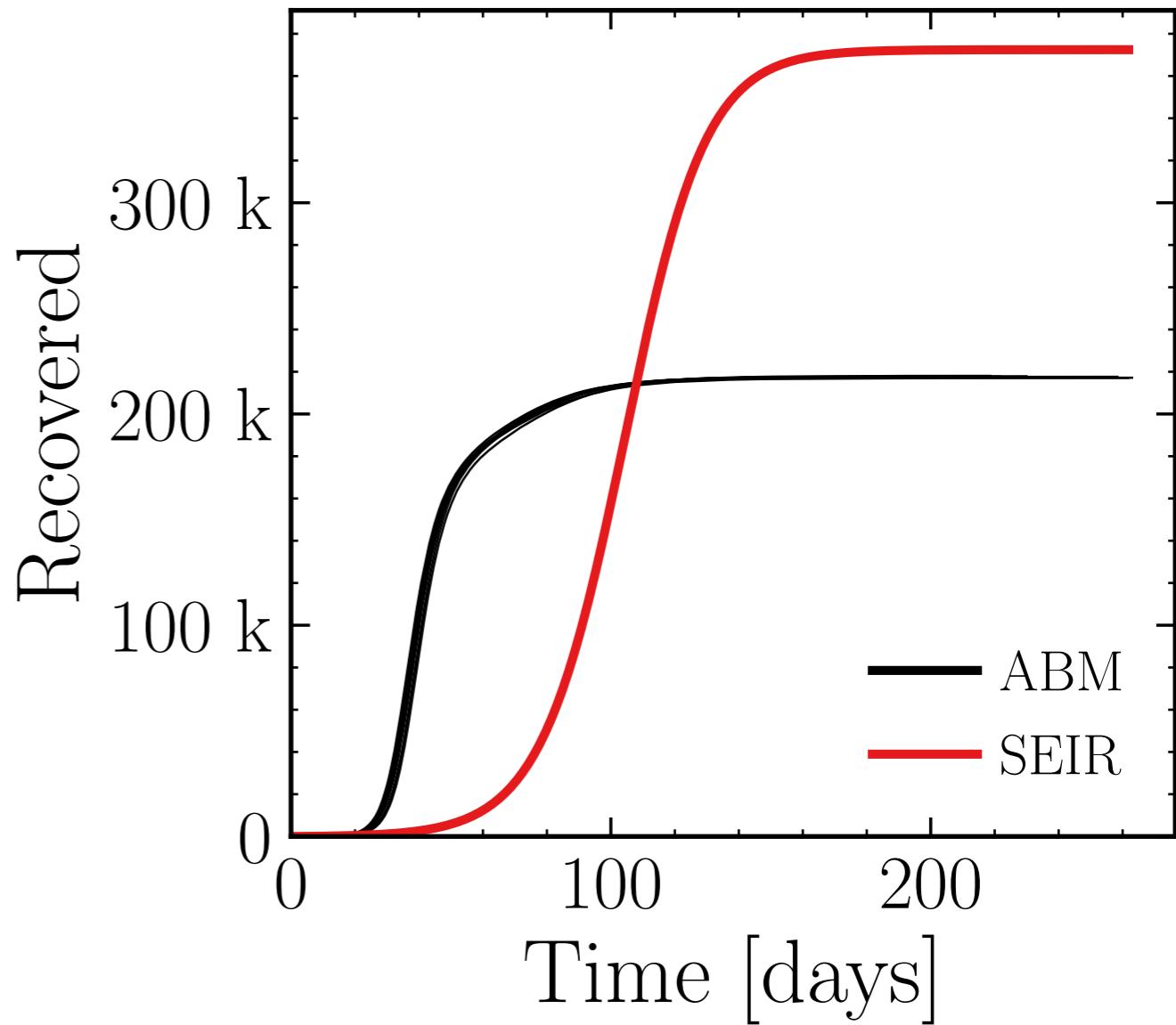
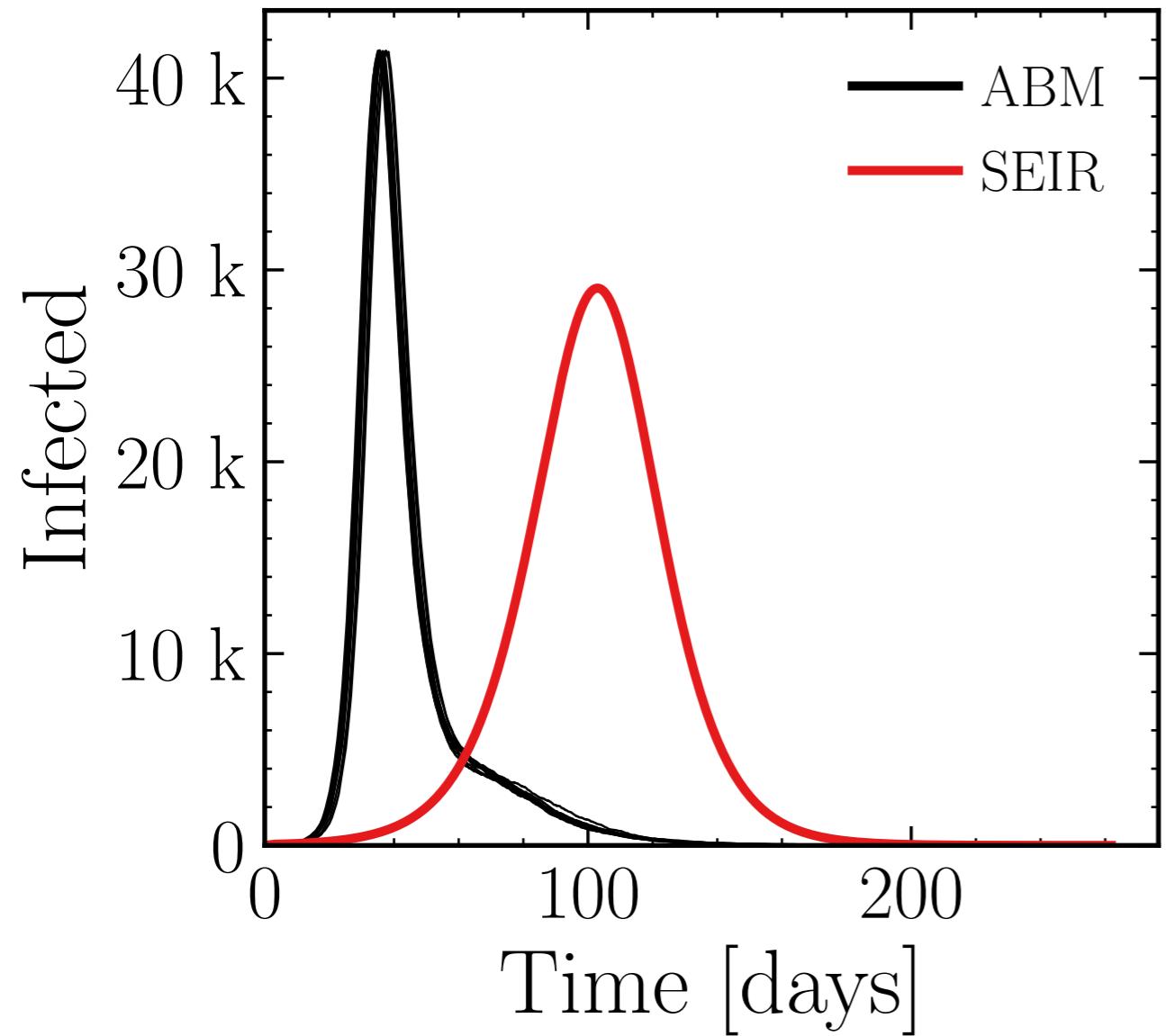
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.05$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10



$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.25$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

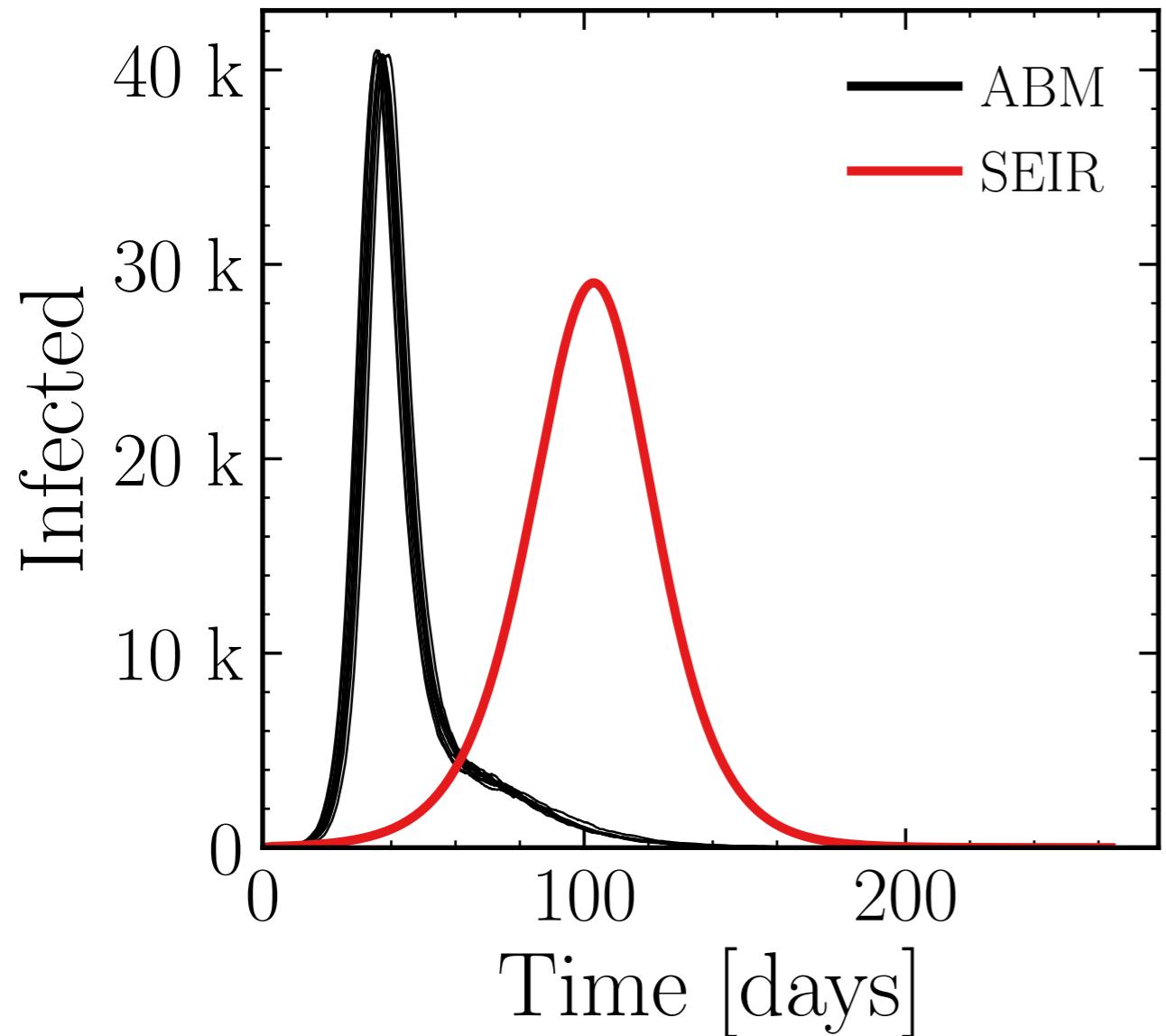
$$I_{\max}^{\text{ABM}} = (41.34 \pm 0.078\%) \cdot 10^3$$

$$R_\infty^{\text{ABM}} = (217.56 \pm 0.041\%) \cdot 10^3$$

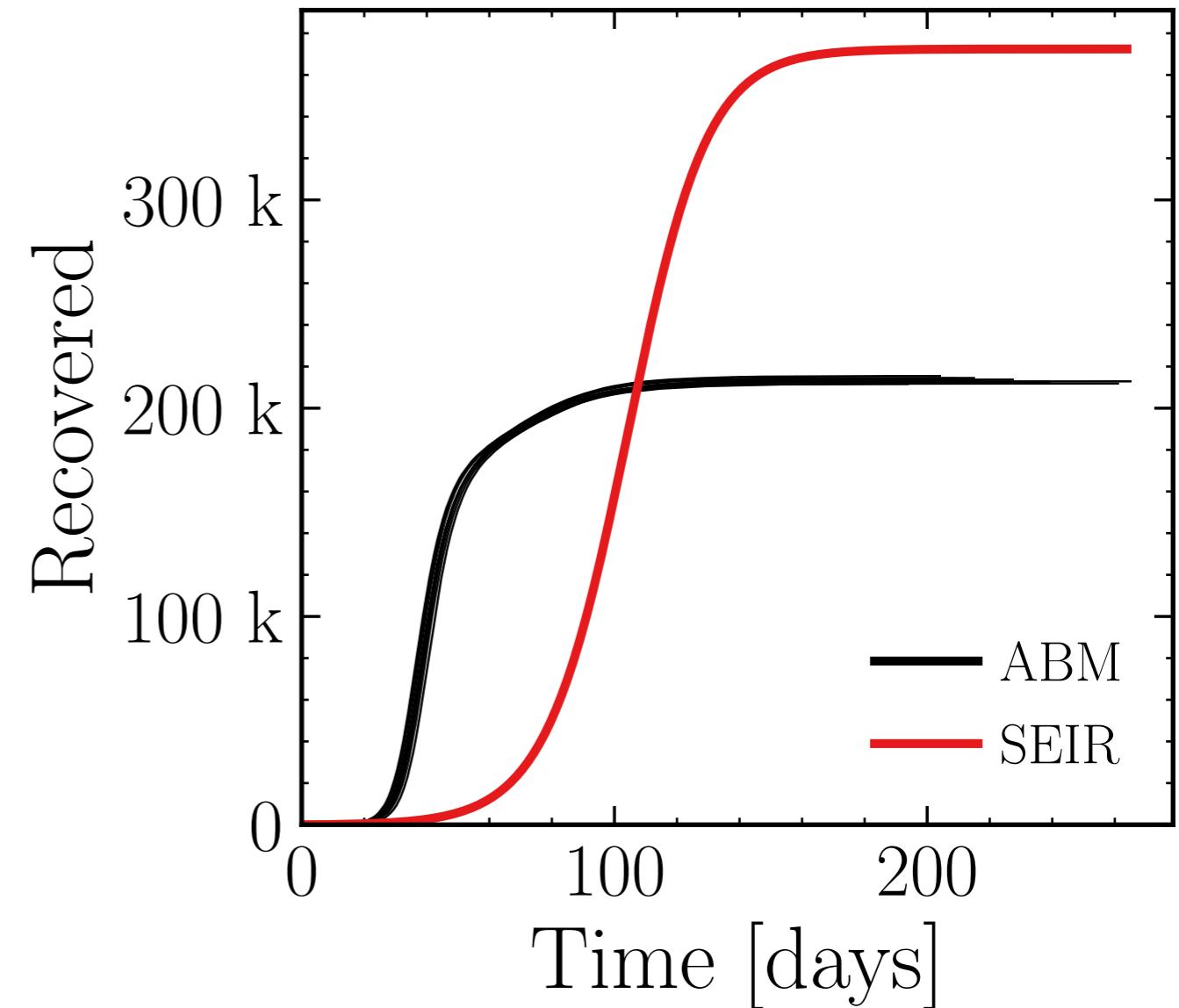


$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.25$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 1.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (40.7 \pm 0.17\%) \cdot 10^3$$



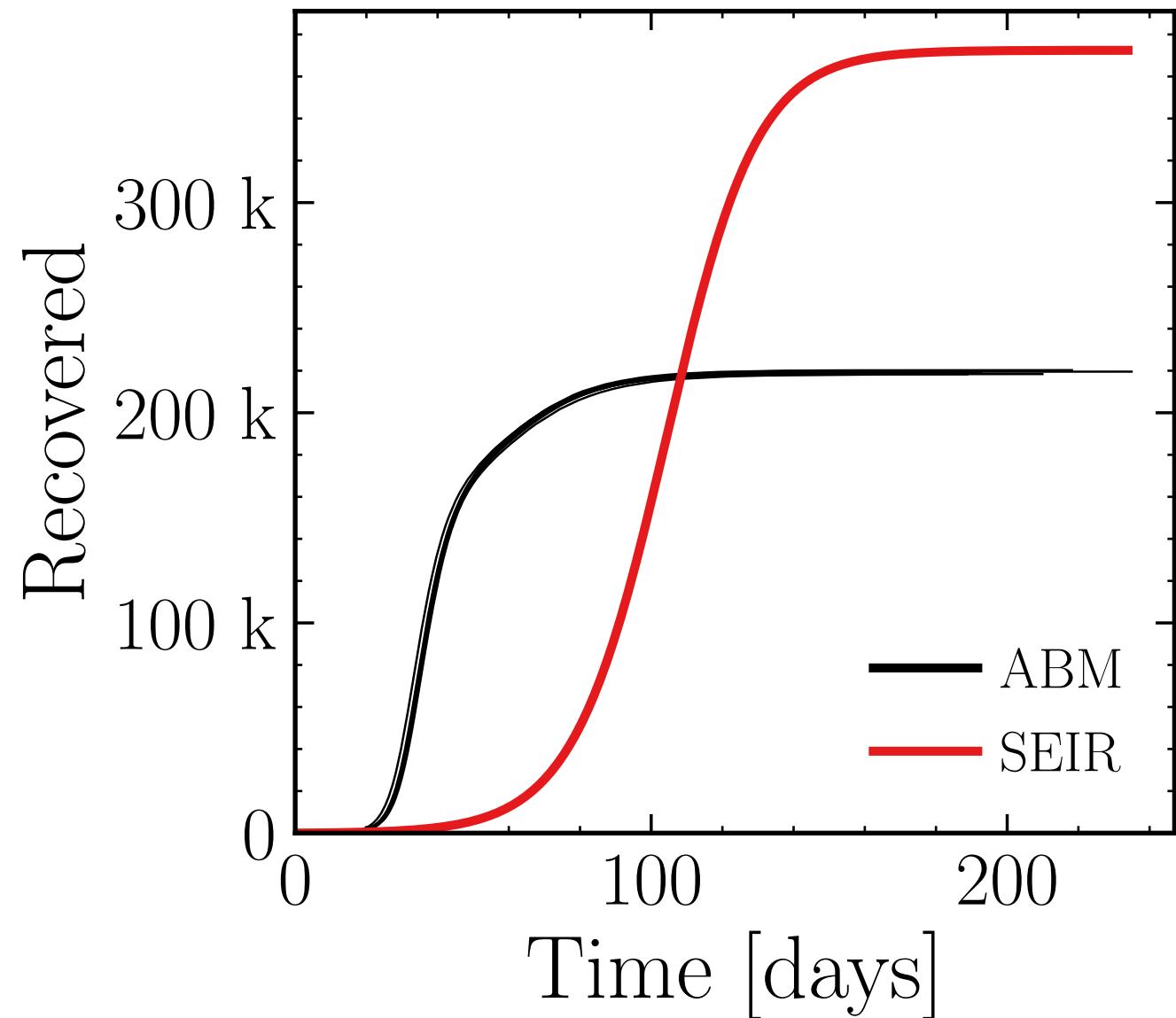
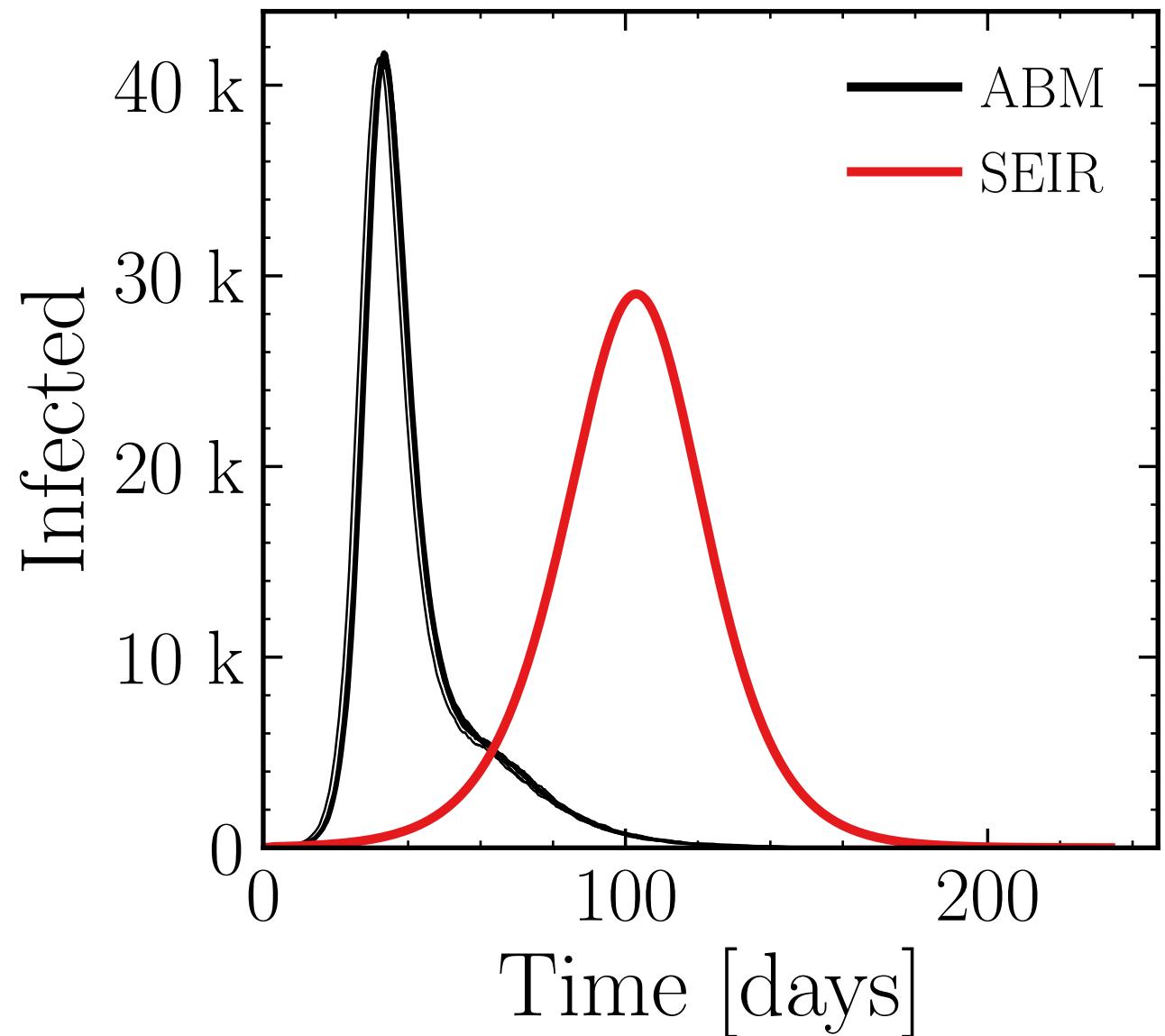
$$R_\infty^{\text{ABM}} = (213.4 \pm 0.17\%) \cdot 10^3$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.5$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (41.52 \pm 0.16\%) \cdot 10^3$$

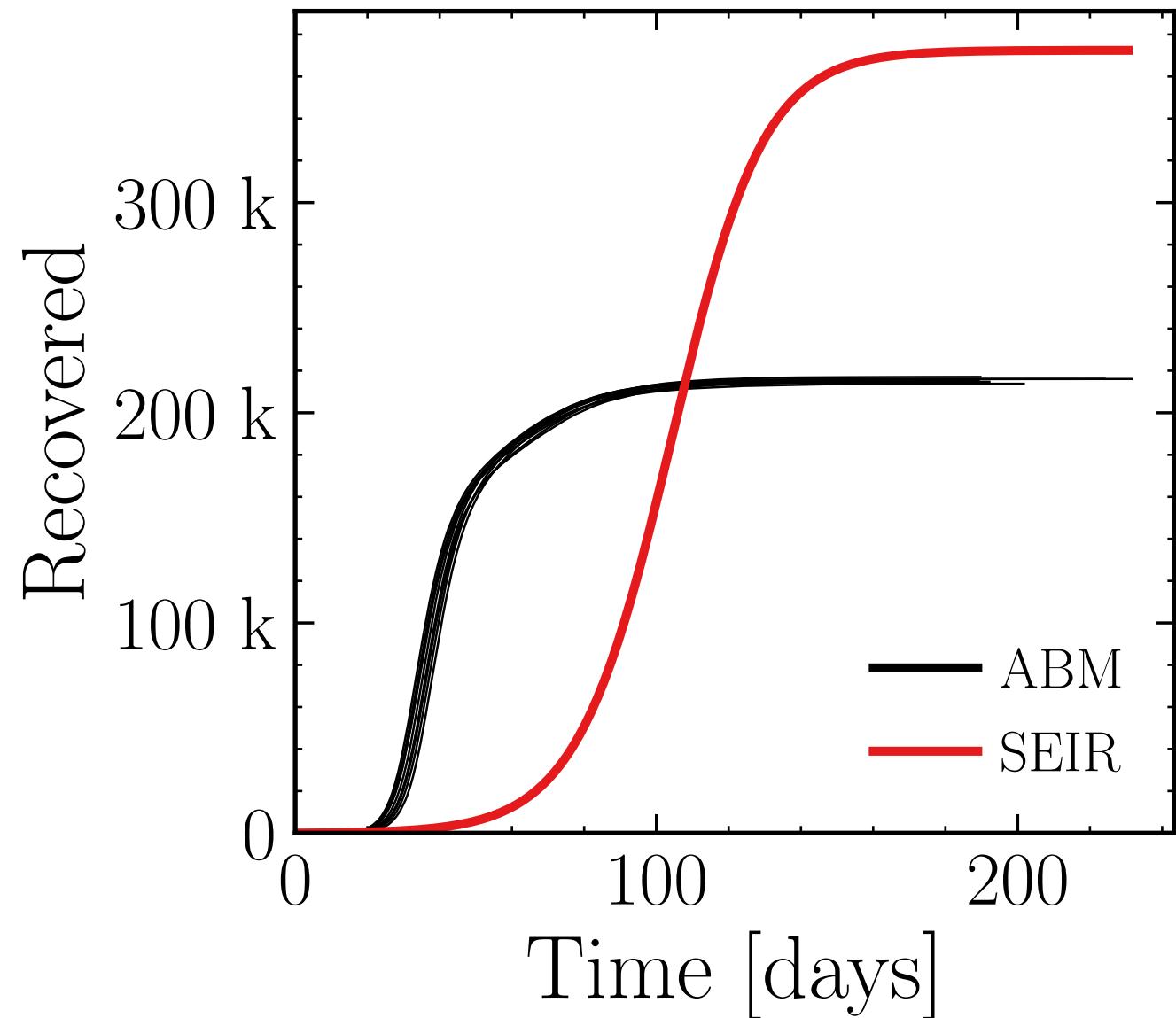
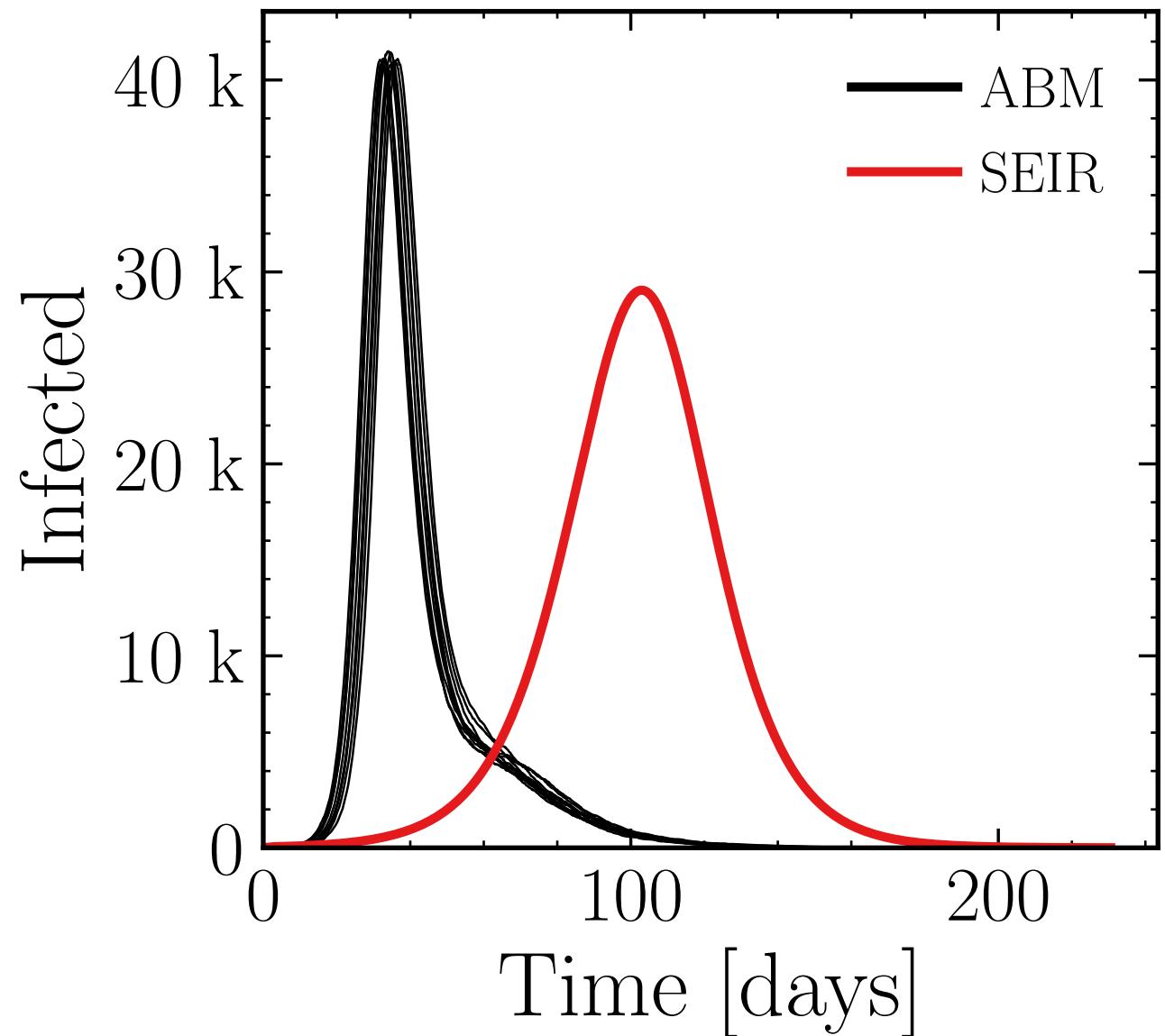
$$R_\infty^{\text{ABM}} = (219.3 \pm 0.085\%) \cdot 10^3$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.5$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 1.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

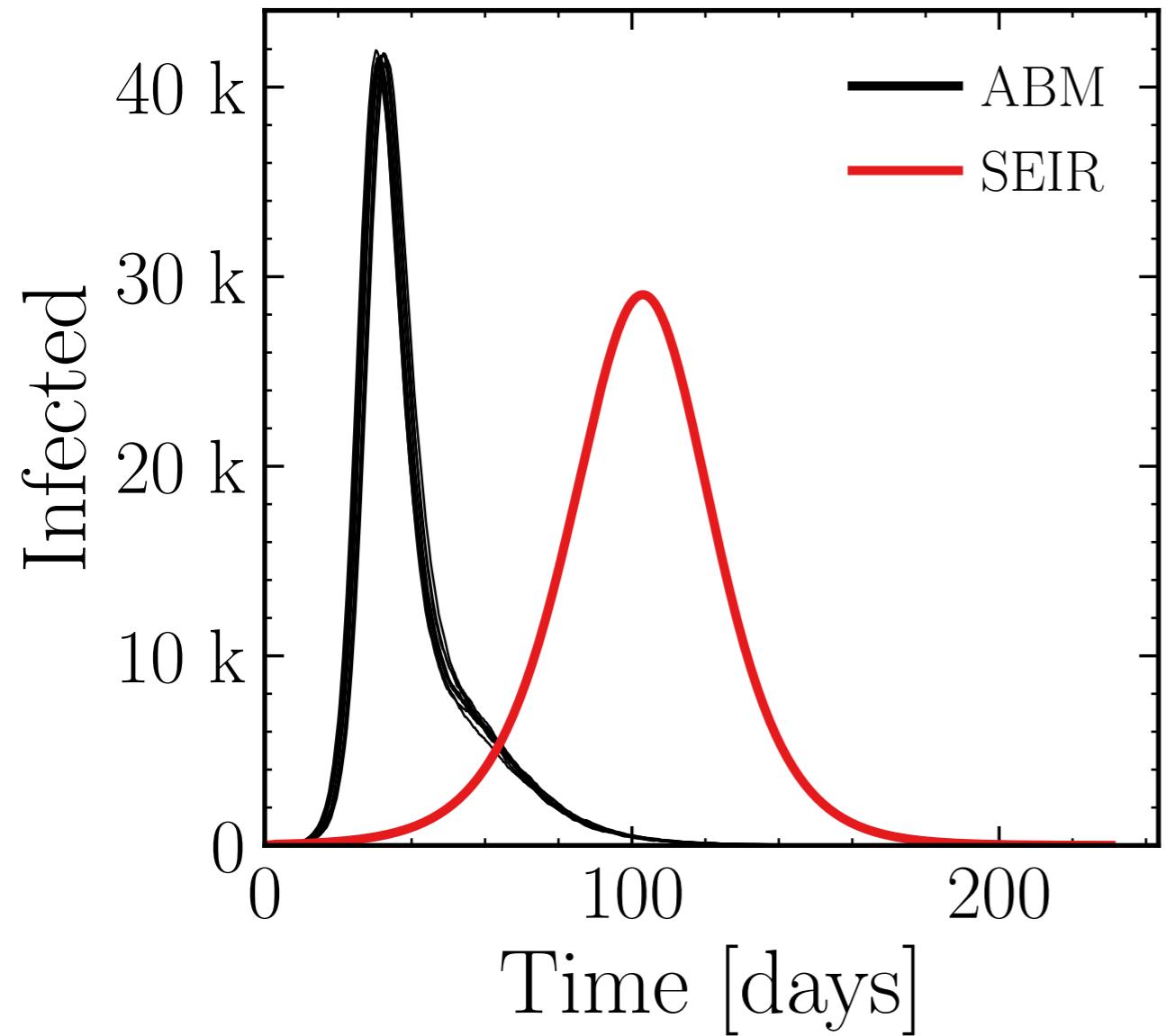
$$I_{\max}^{\text{ABM}} = (41.03 \pm 0.22\%) \cdot 10^3$$

$$R_\infty^{\text{ABM}} = (215.4 \pm 0.13\%) \cdot 10^3$$

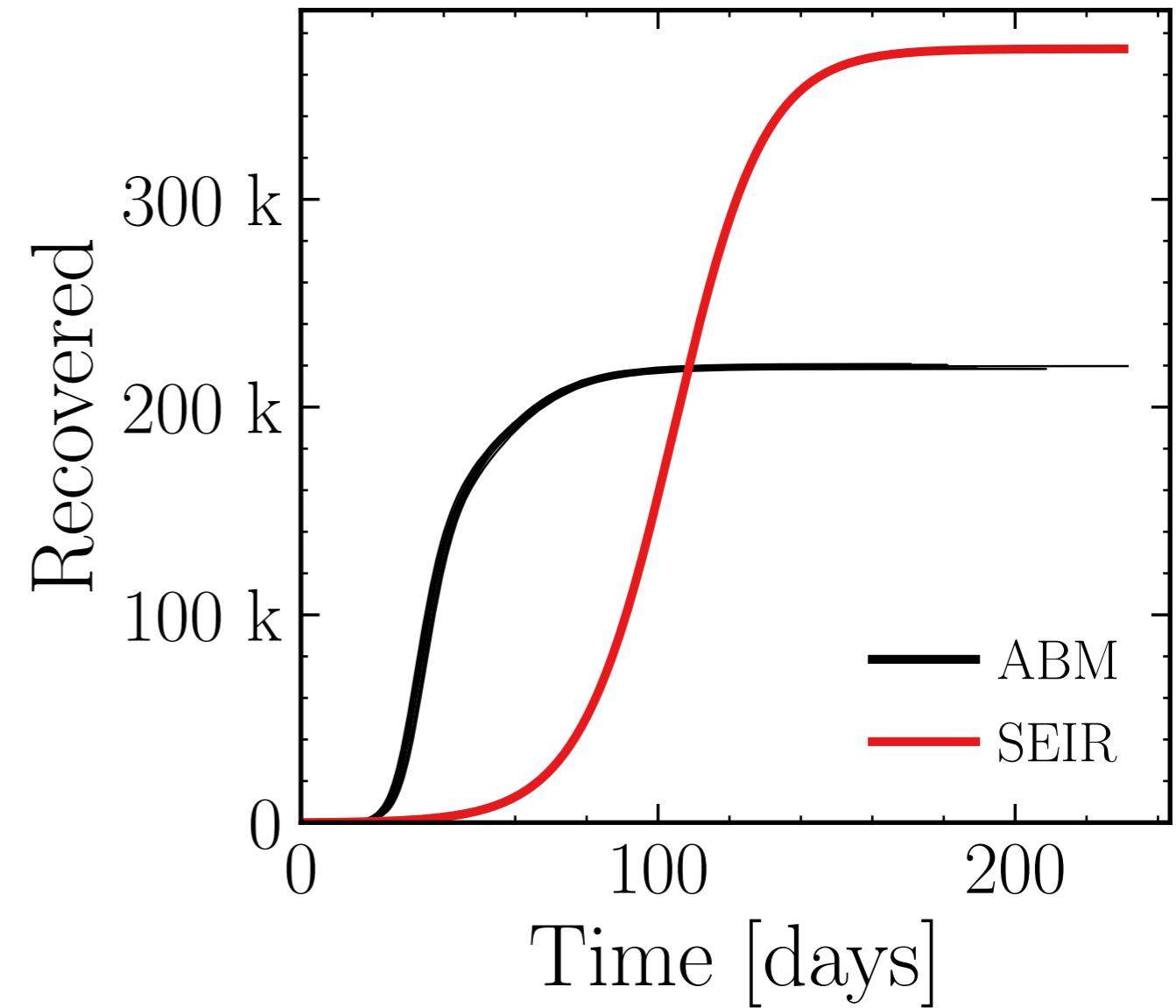


$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.75$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (41.55 \pm 0.15\%) \cdot 10^3$$



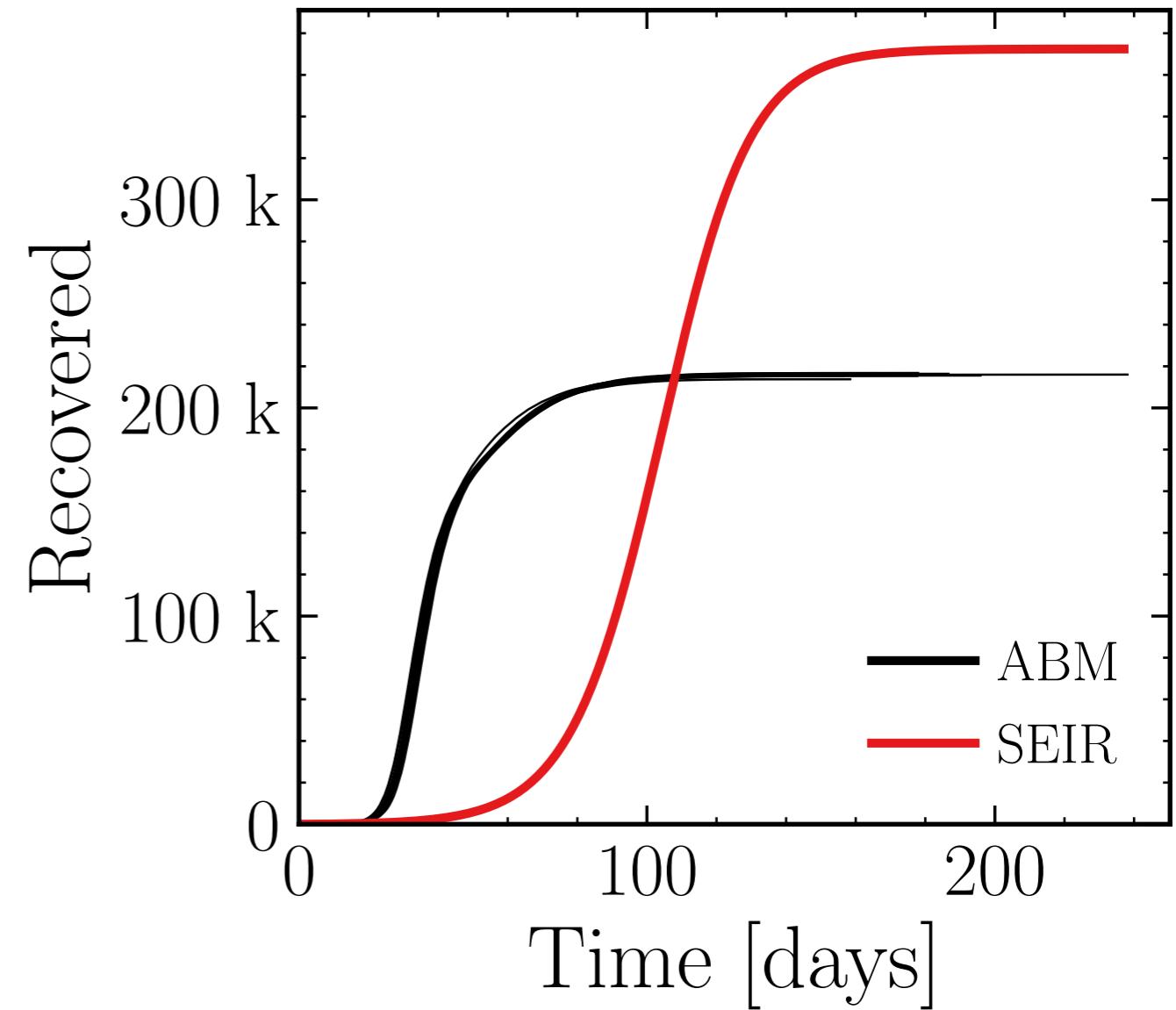
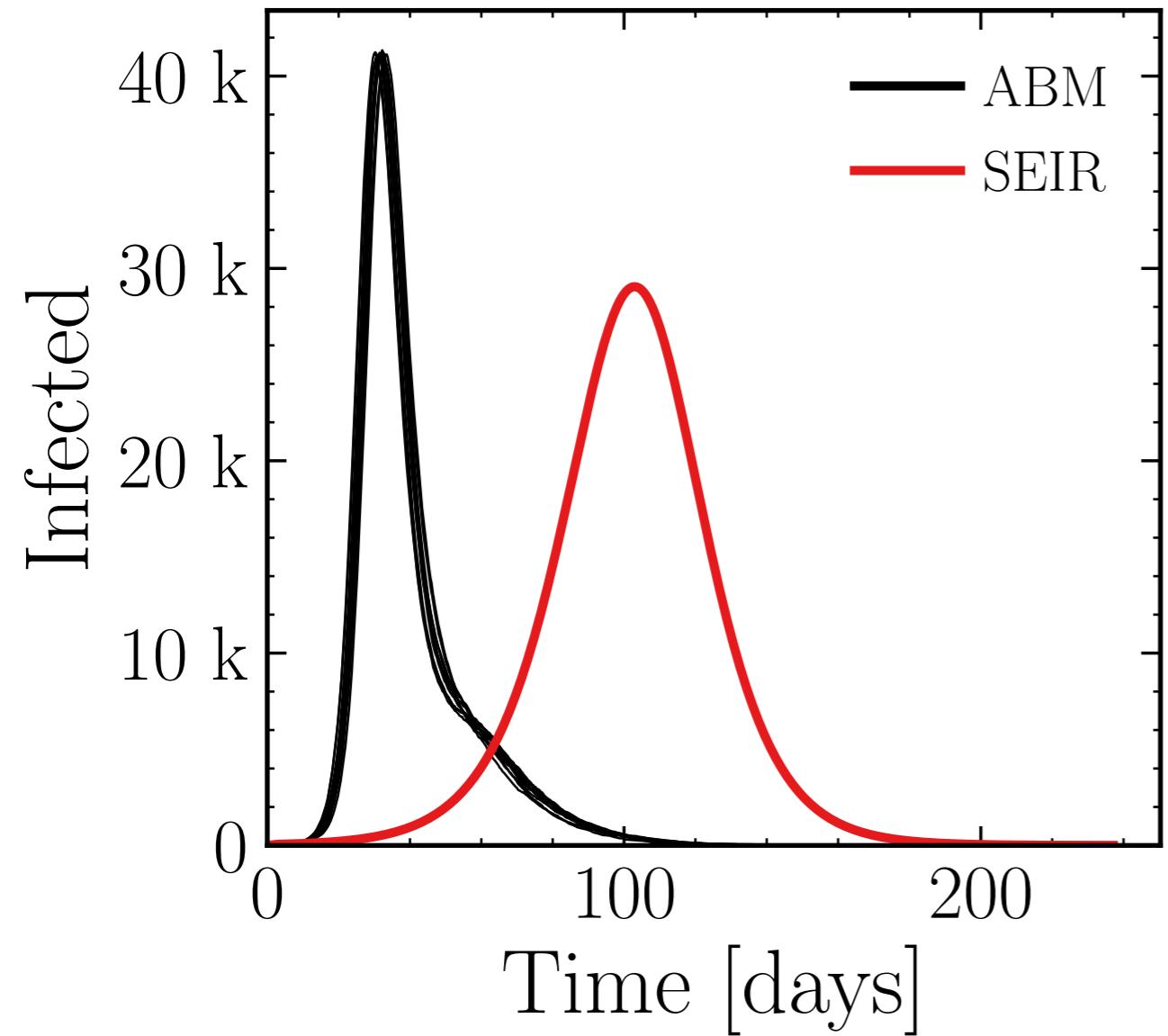
$$R_\infty^{\text{ABM}} = (219.7 \pm 0.091\%) \cdot 10^3$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.75$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 1.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

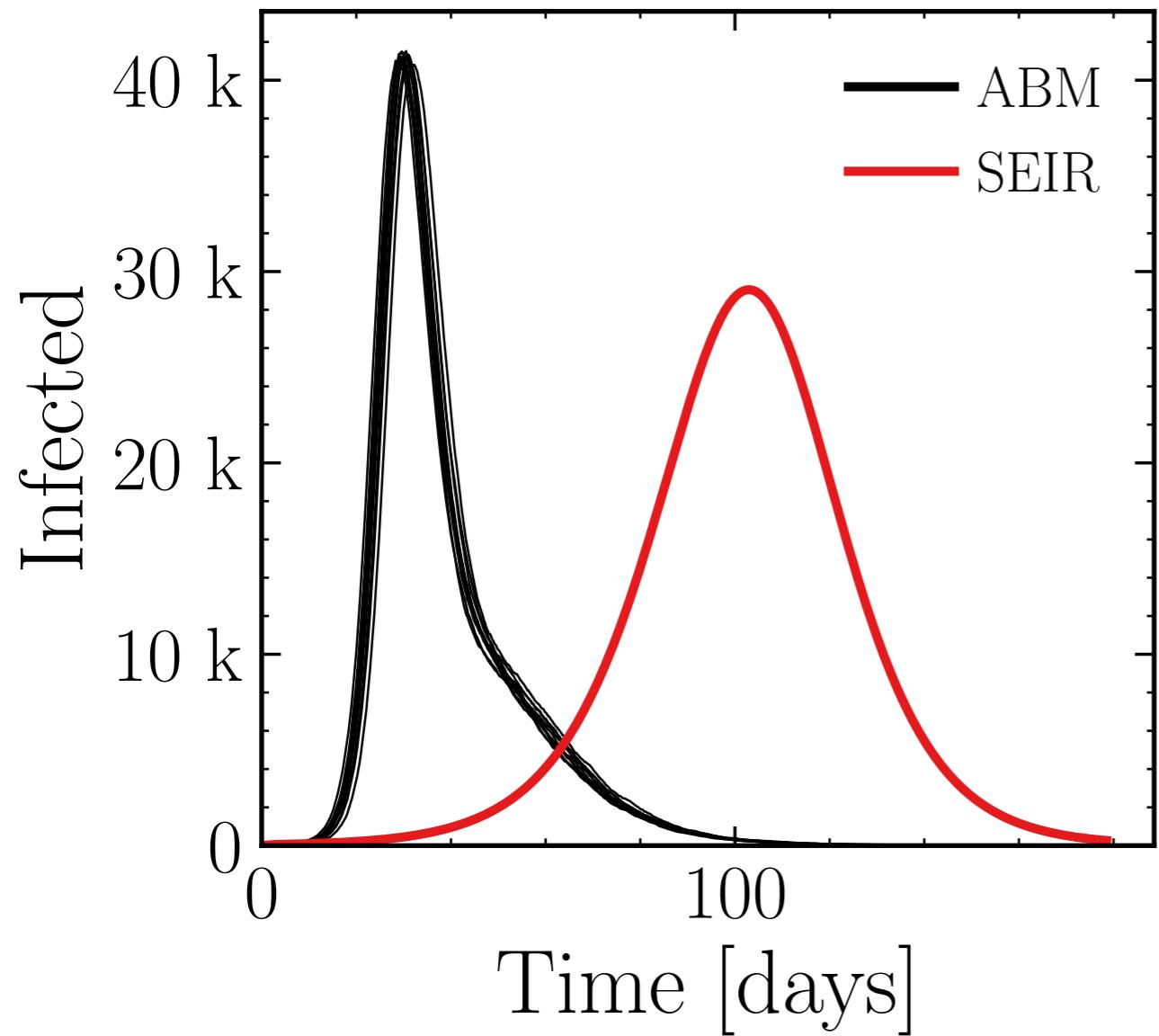
$$I_{\max}^{\text{ABM}} = (41.08 \pm 0.14\%) \cdot 10^3$$

$$R_\infty^{\text{ABM}} = (215.8 \pm 0.13\%) \cdot 10^3$$

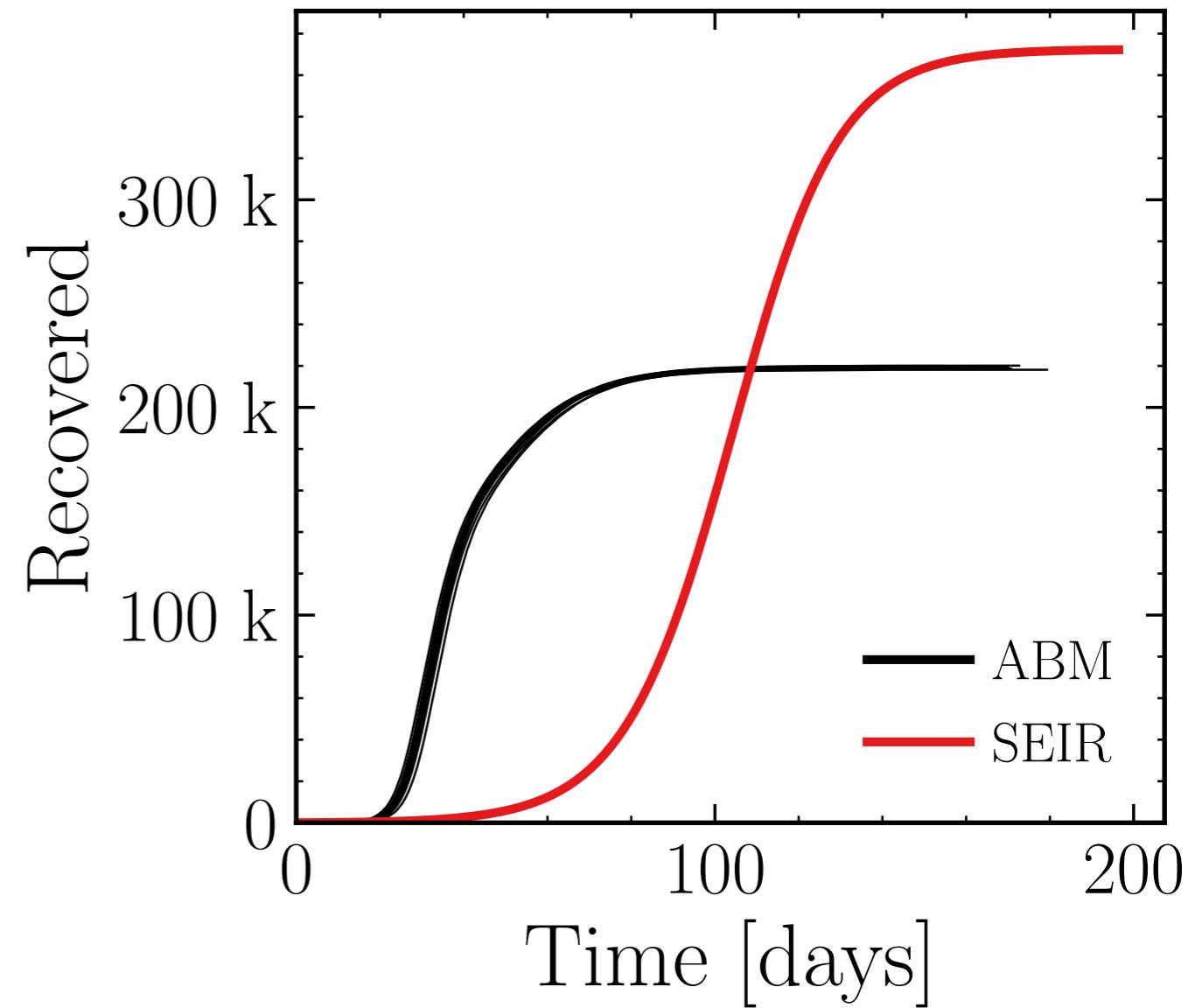


$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (41.16 \pm 0.2\%) \cdot 10^3$$

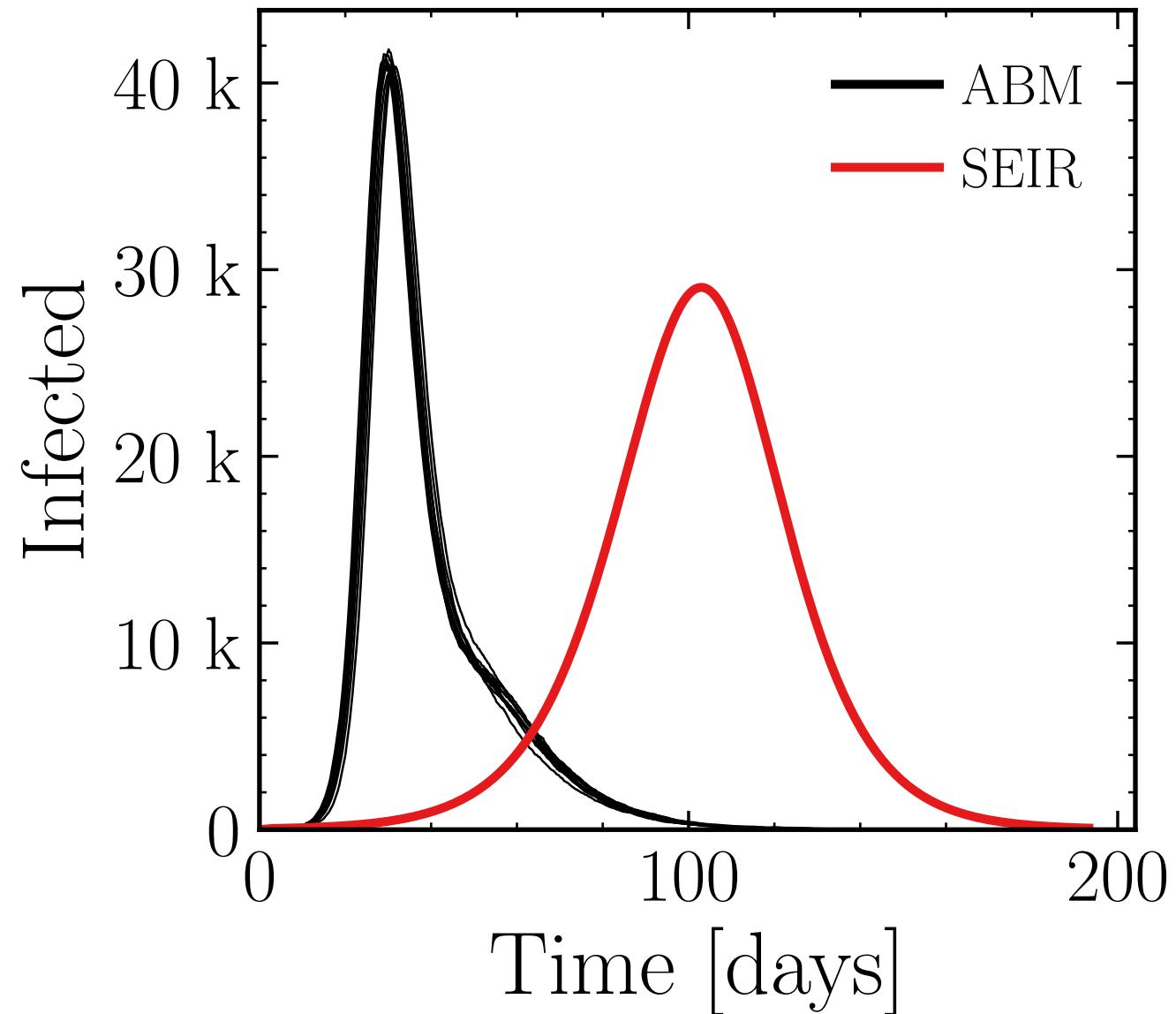


$$R_\infty^{\text{ABM}} = (219.4 \pm 0.083\%) \cdot 10^3$$

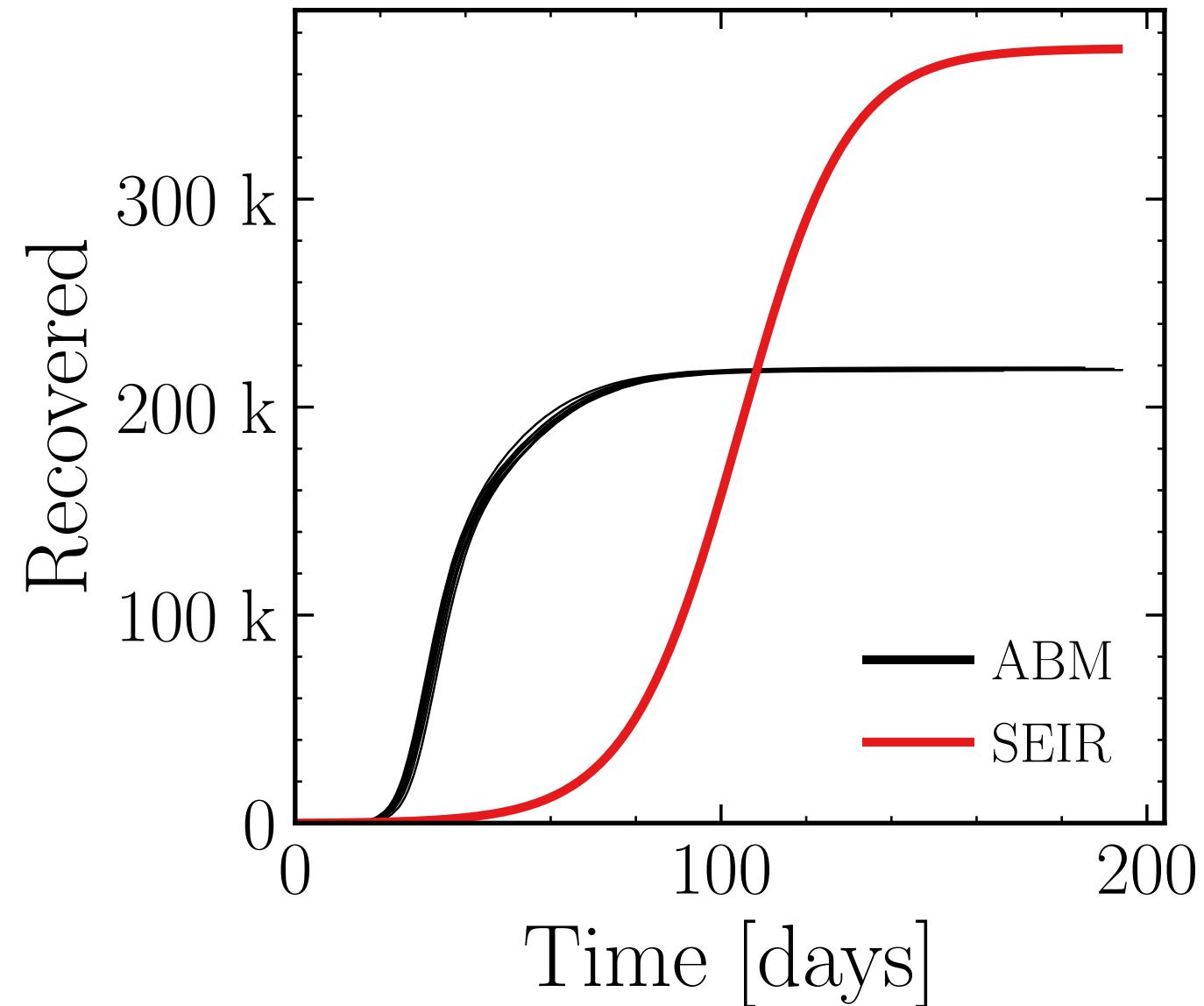


$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.25$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (41.1 \pm 0.27\%) \cdot 10^3$$

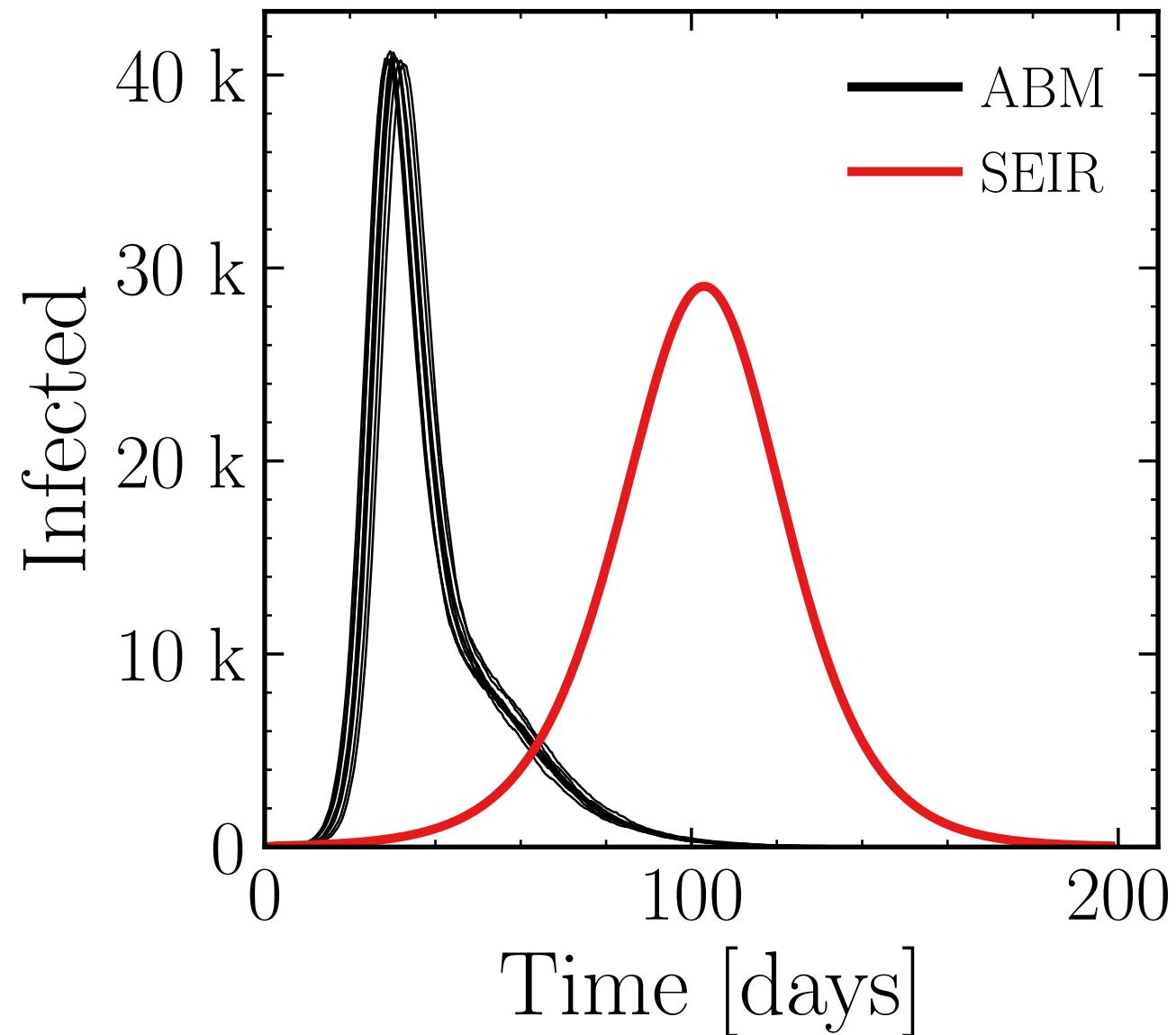


$$R_\infty^{\text{ABM}} = (218.1 \pm 0.063\%) \cdot 10^3$$

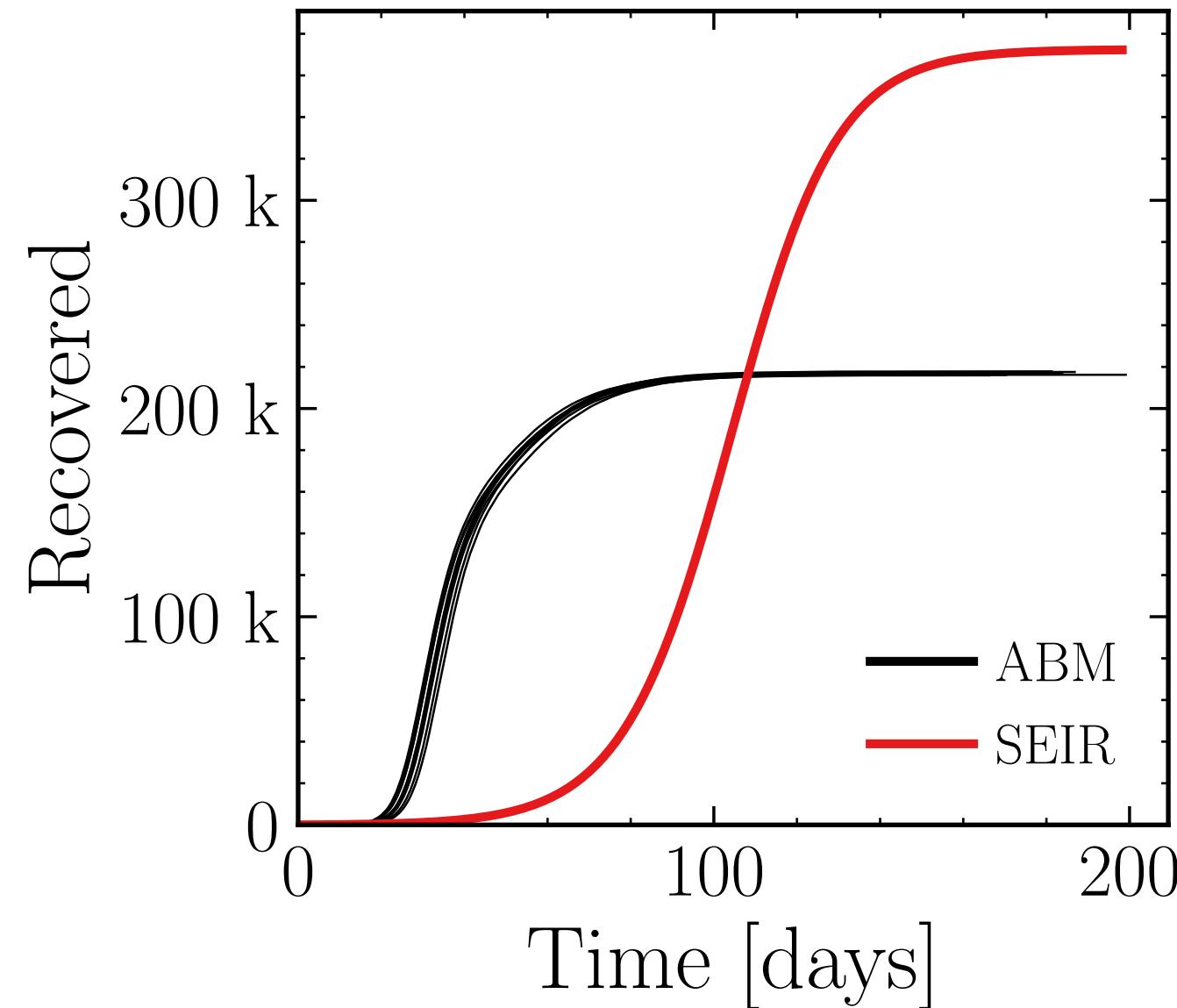


$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.5$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (40.86 \pm 0.15\%) \cdot 10^3$$



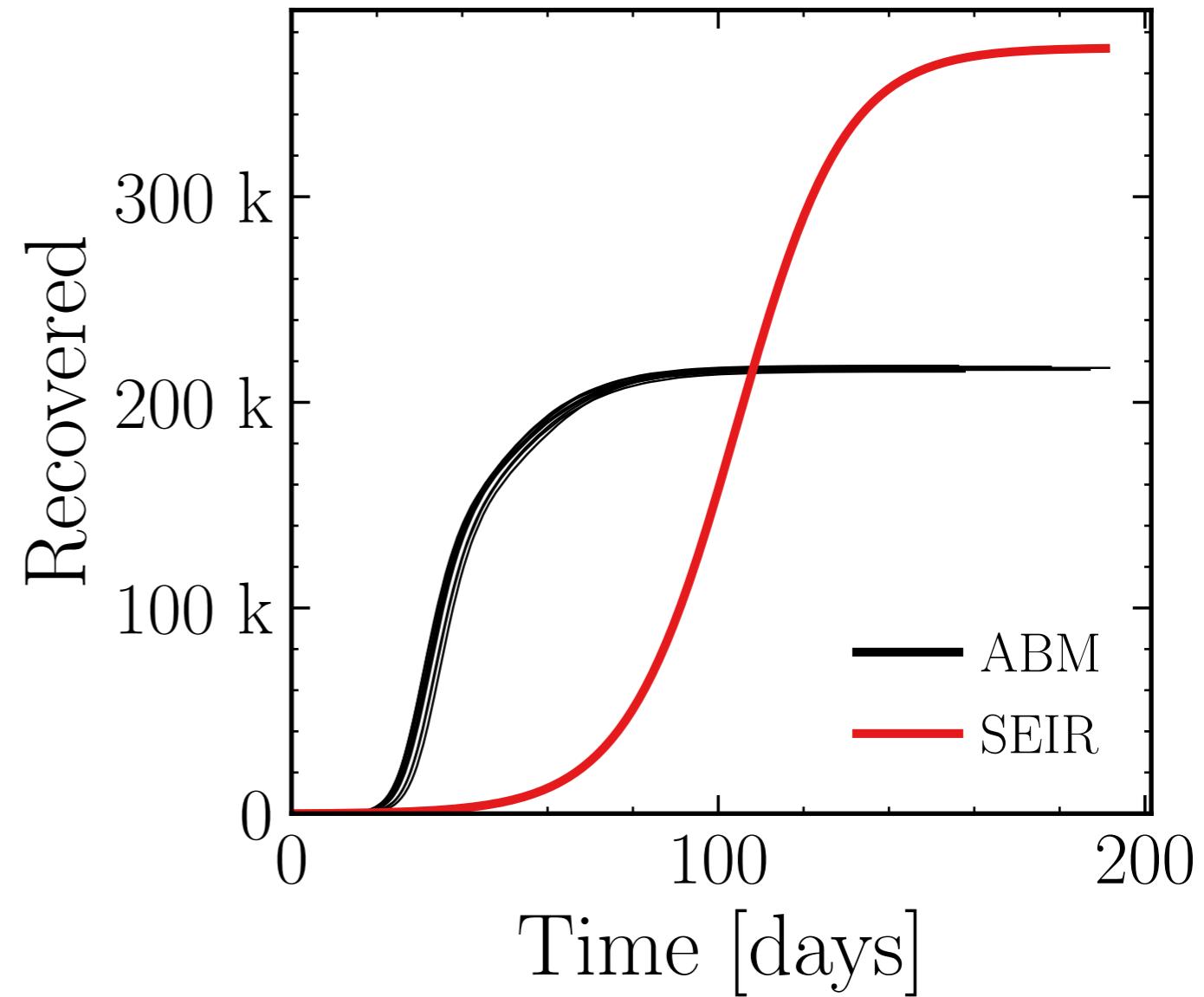
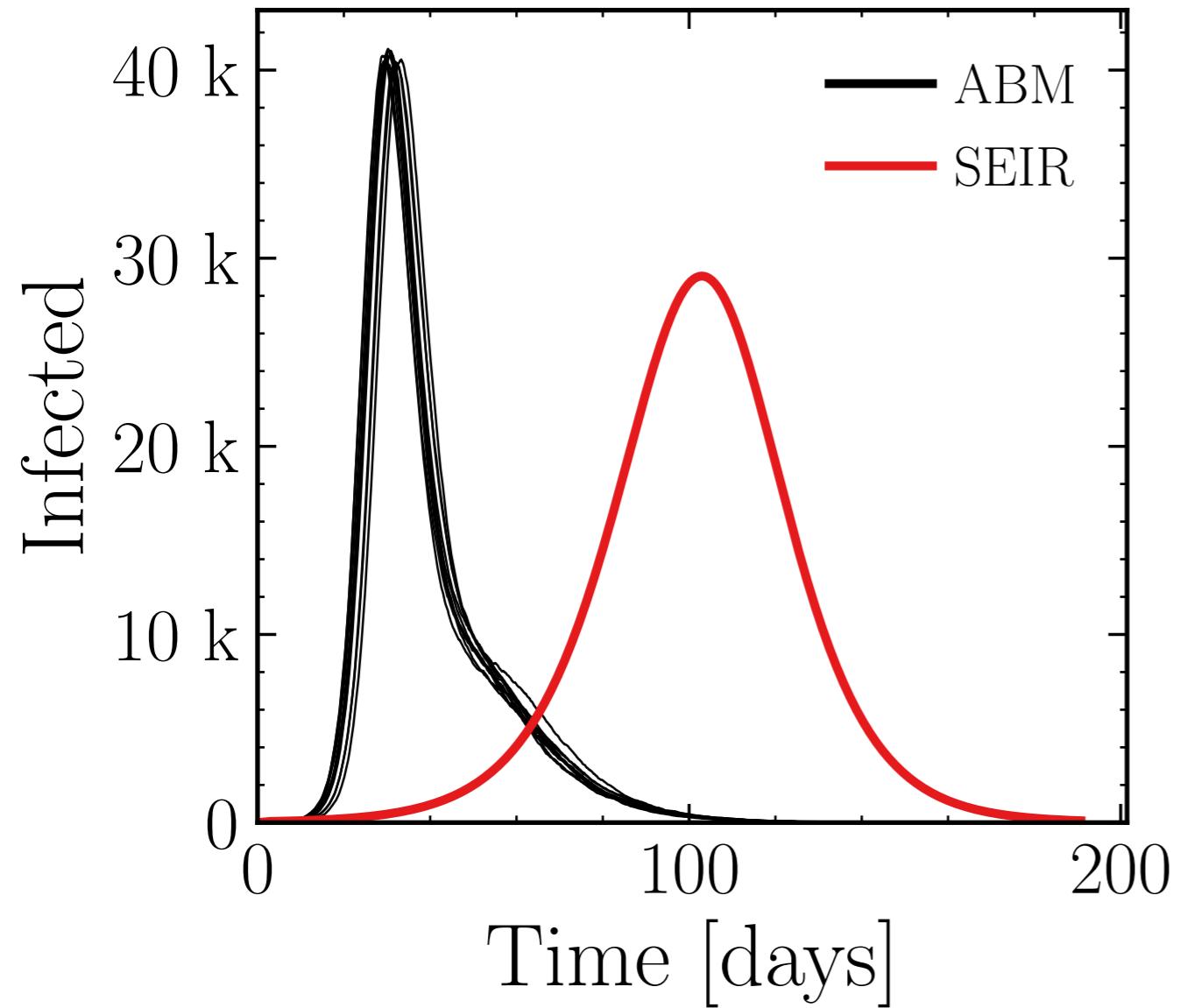
$$R_\infty^{\text{ABM}} = (216.9 \pm 0.089\%) \cdot 10^3$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.75$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (40.71 \pm 0.2\%) \cdot 10^3$$

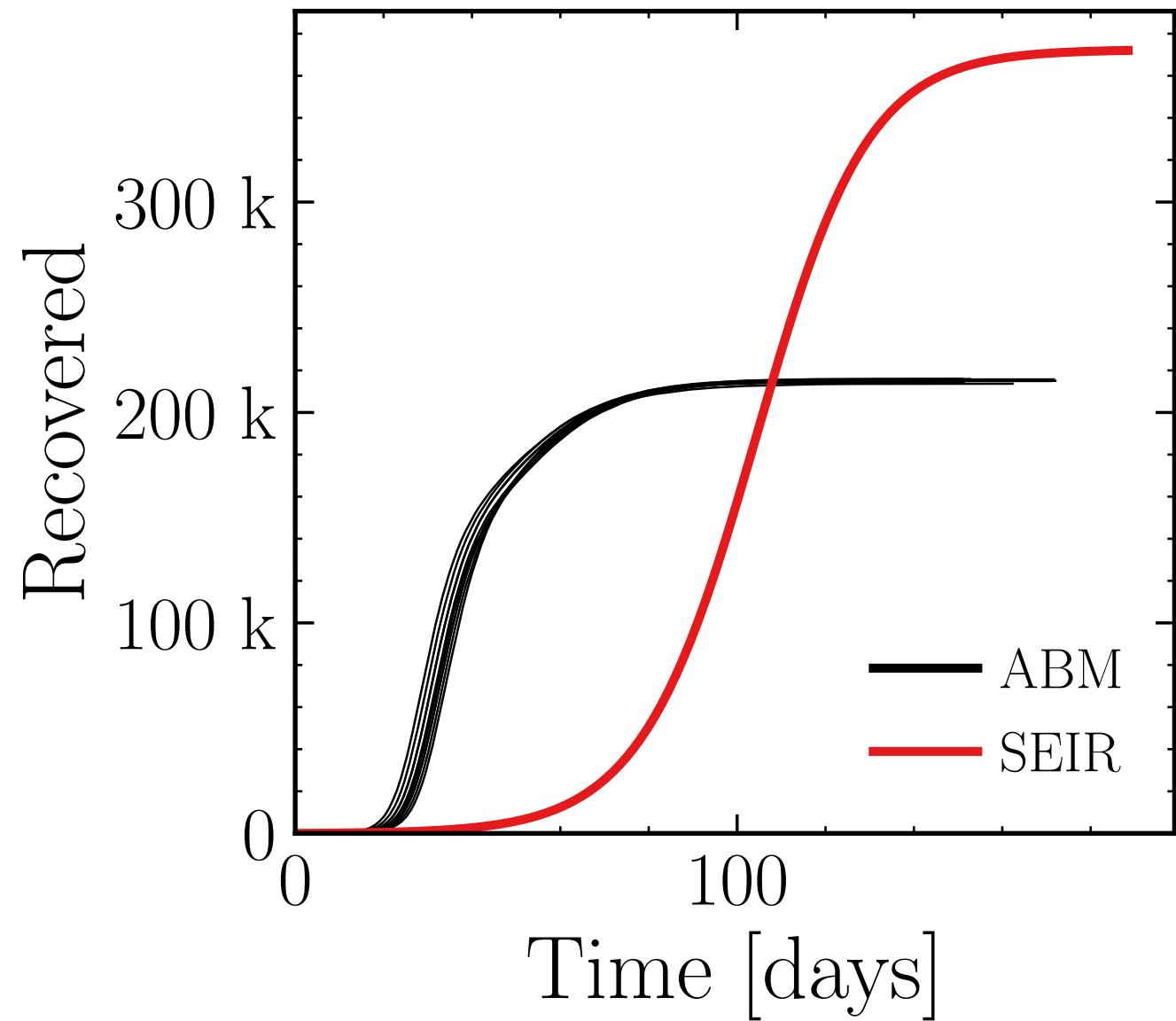
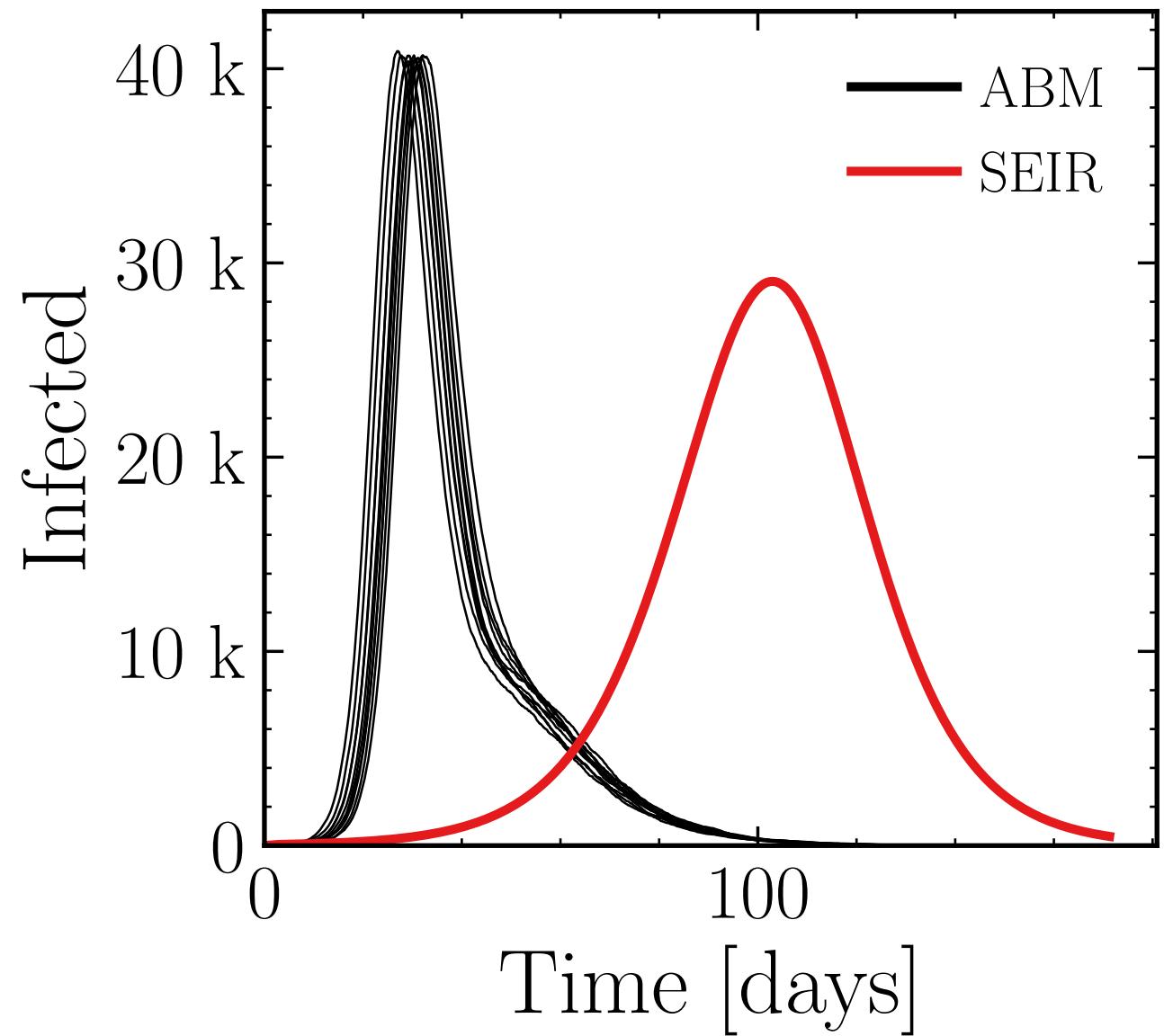
$$R_\infty^{\text{ABM}} = (216.5 \pm 0.11\%) \cdot 10^3$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 1.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (40.59 \pm 0.14\%) \cdot 10^3$$

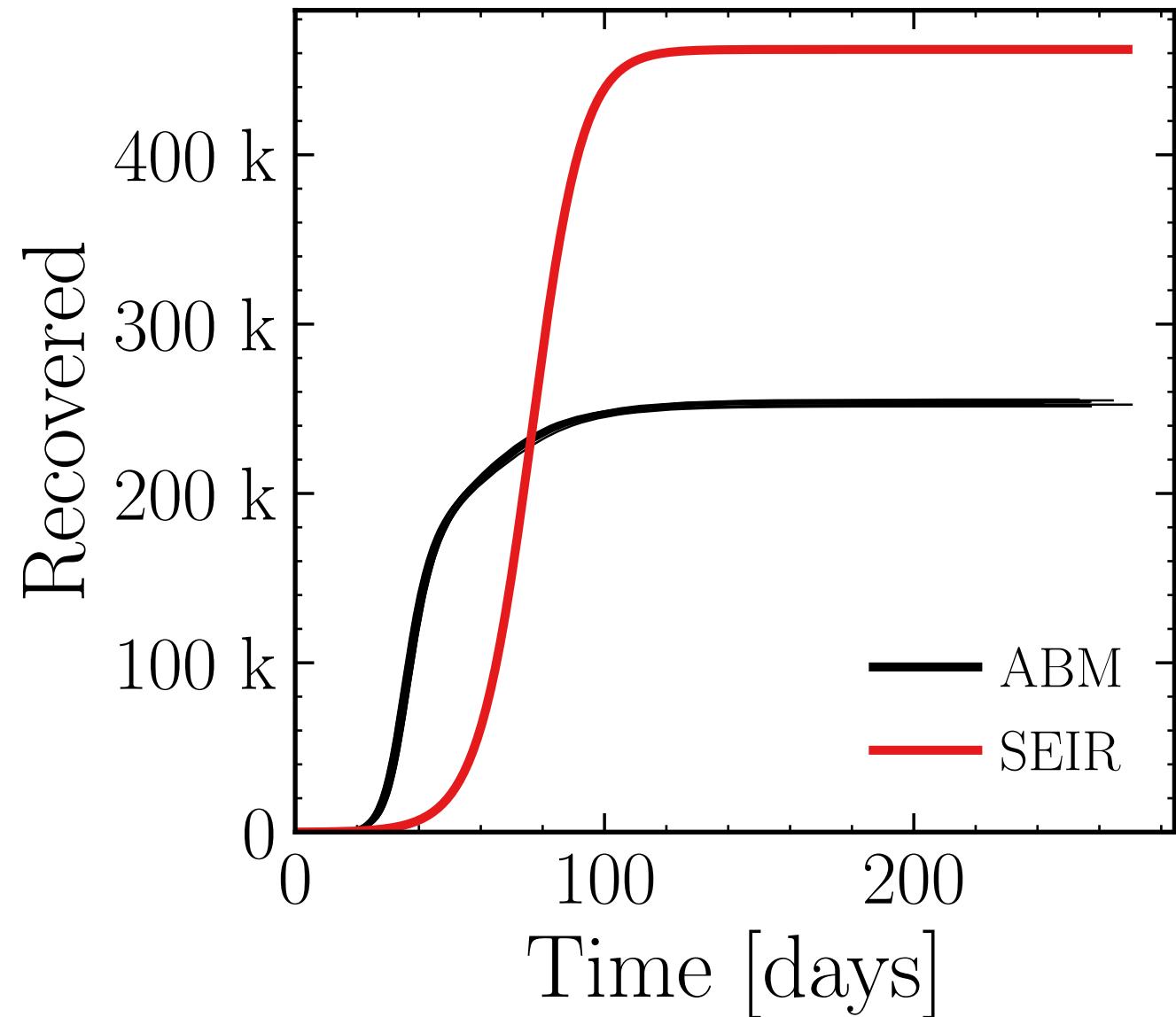
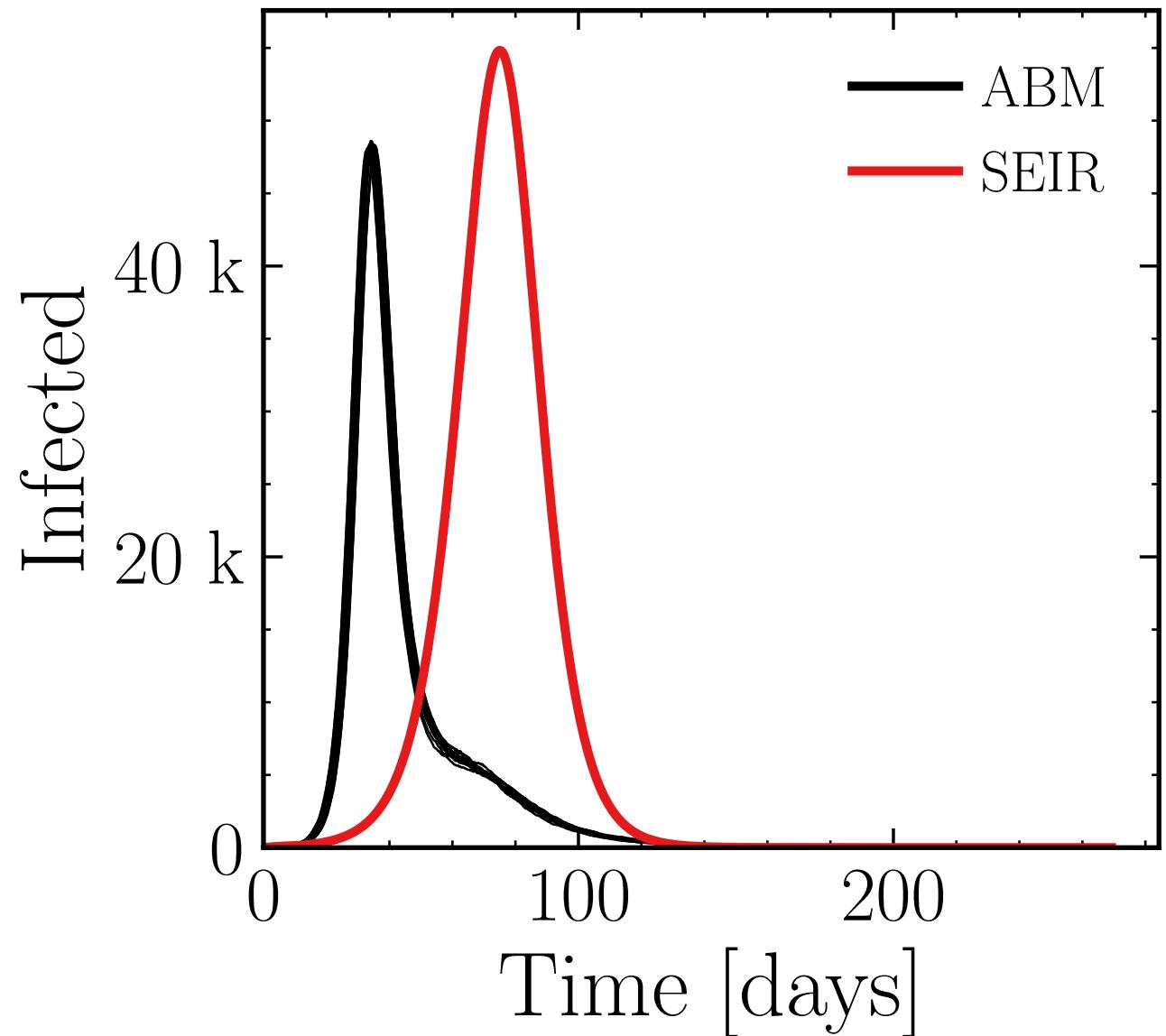
$$R_\infty^{\text{ABM}} = (215.2 \pm 0.097\%) \cdot 10^3$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 50.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

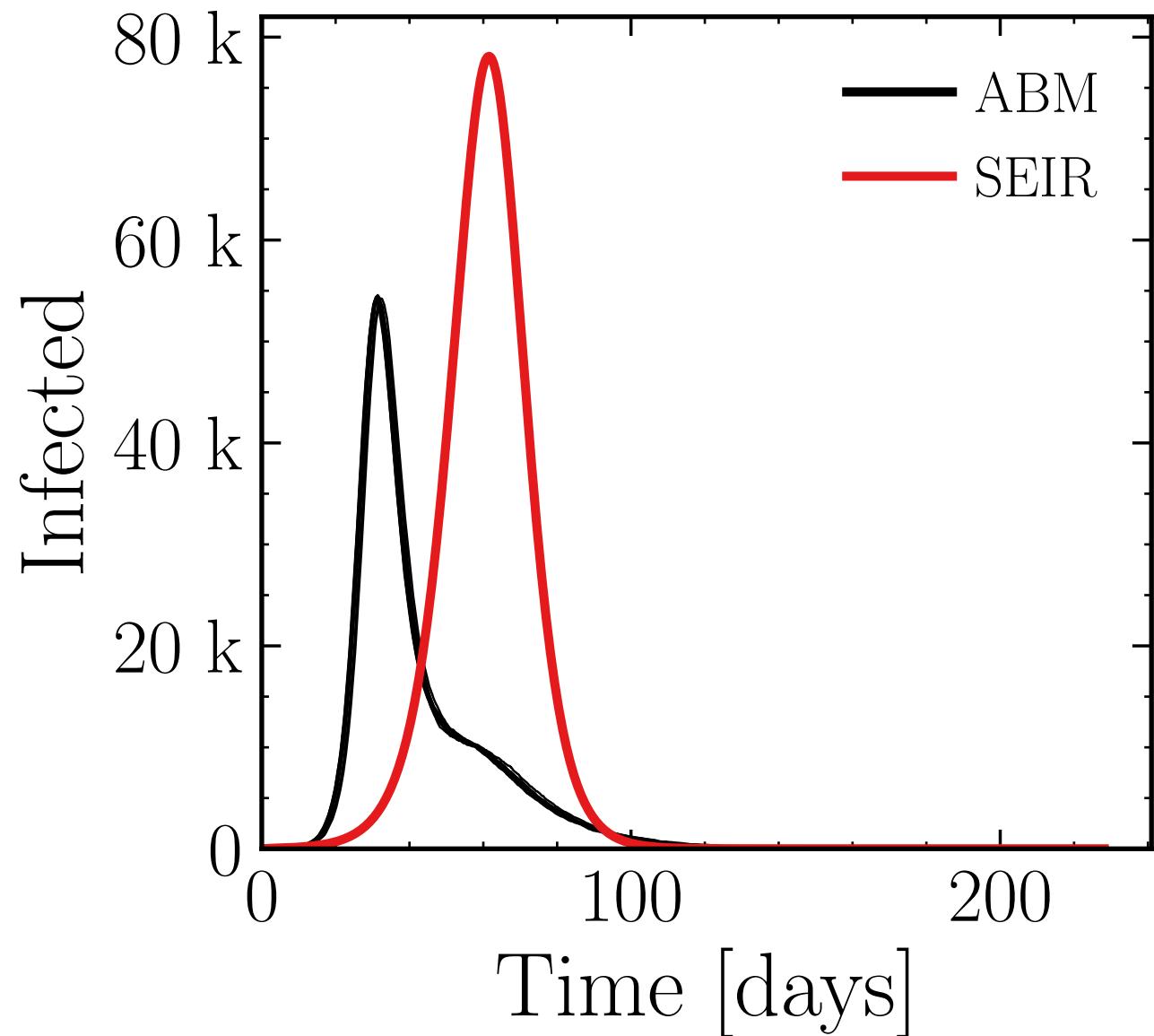
$$I_{\max}^{\text{ABM}} = (48.26 \pm 0.15\%) \cdot 10^3$$

$$R_\infty^{\text{ABM}} = (253.5 \pm 0.15\%) \cdot 10^3$$

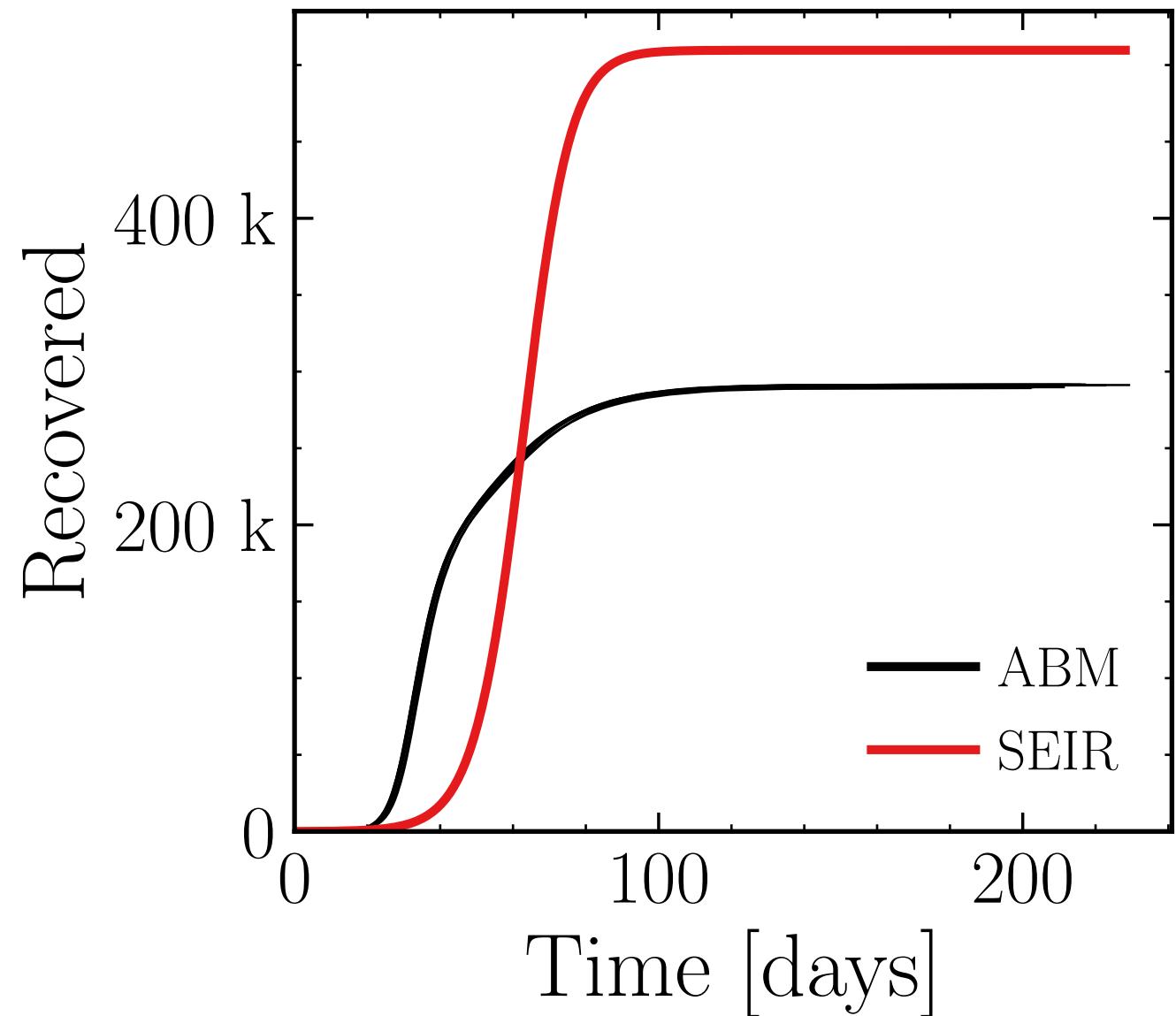


$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 60.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

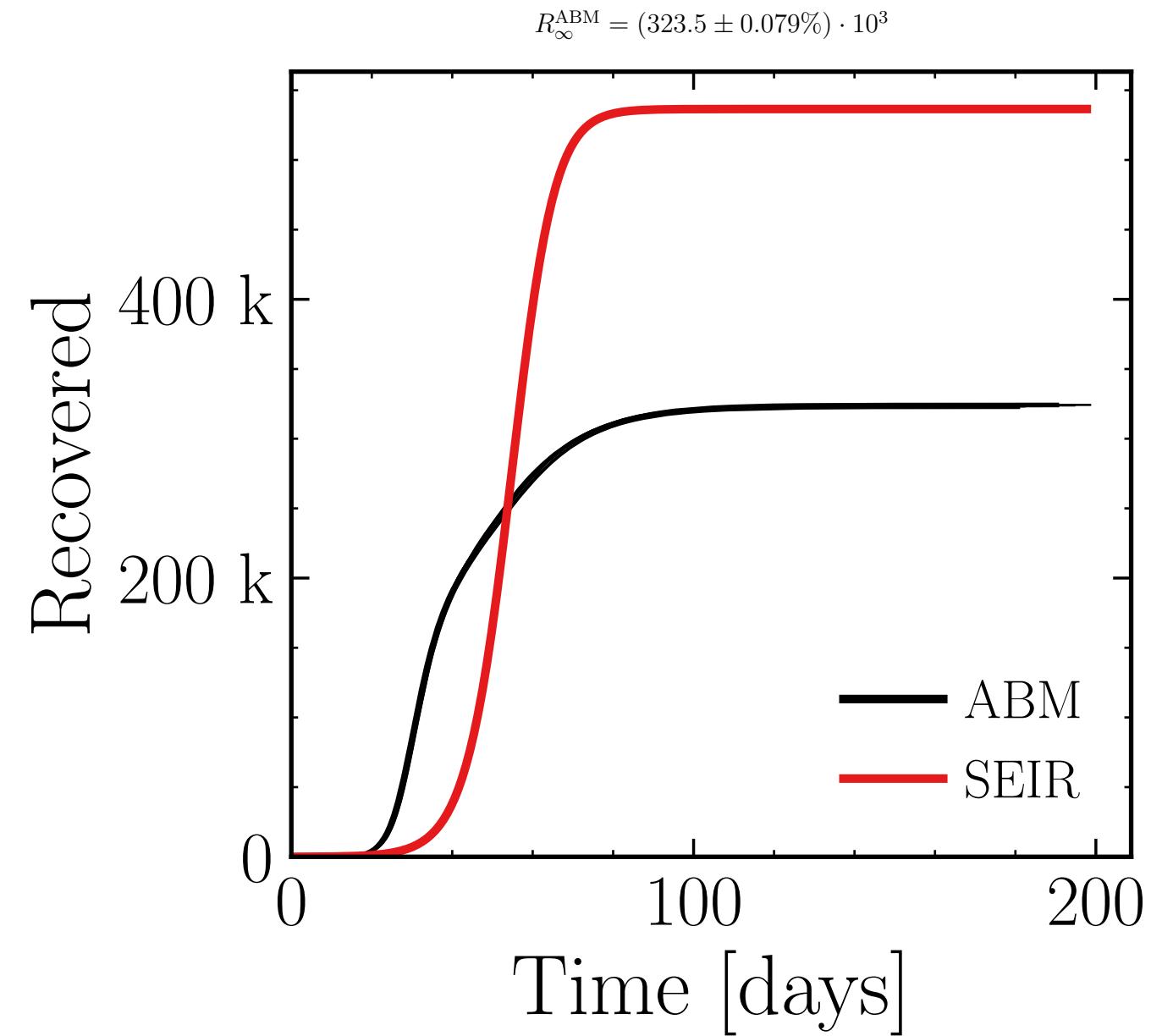
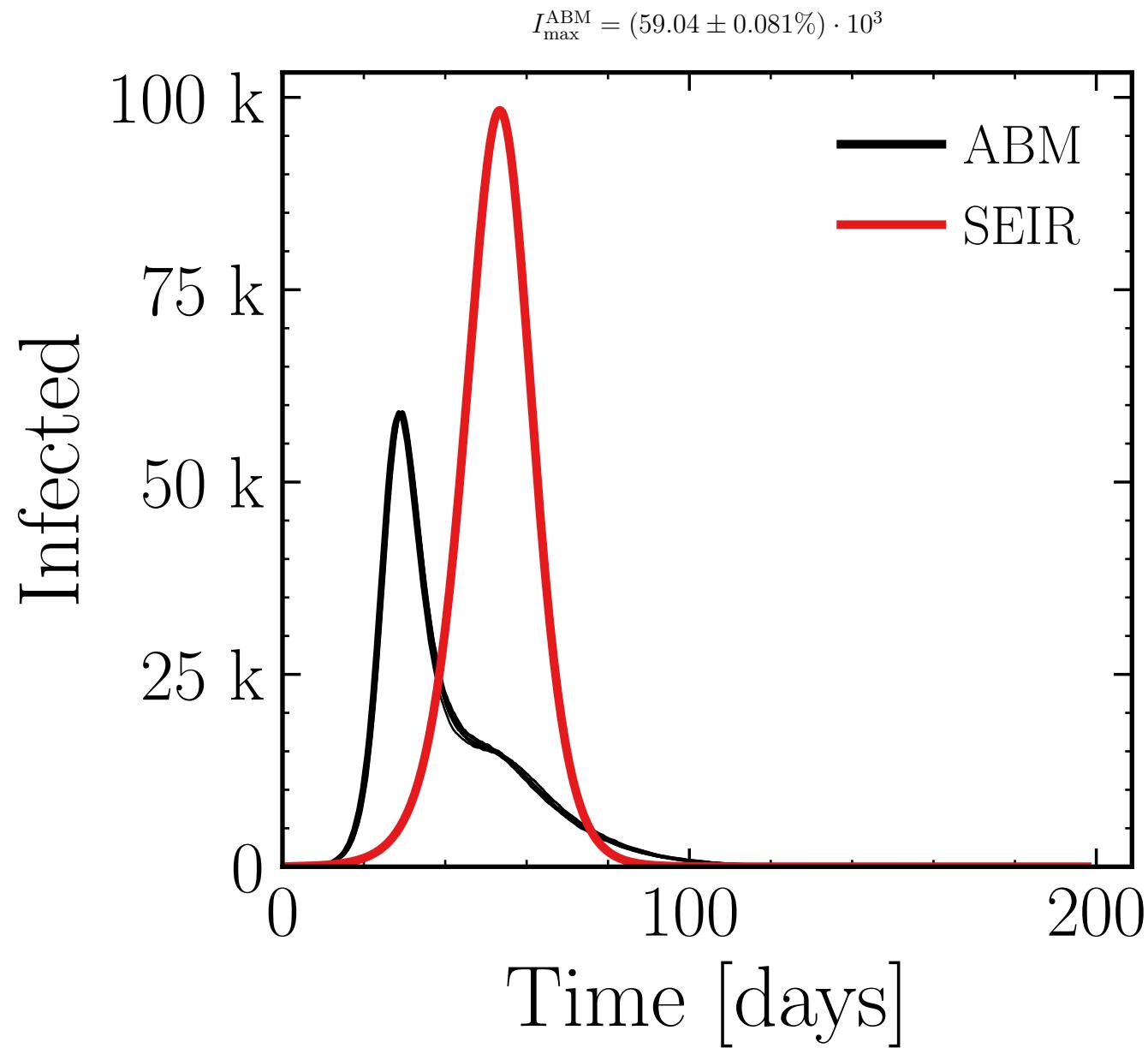
$$I_{\max}^{\text{ABM}} = (54.18 \pm 0.13\%) \cdot 10^3$$



$$R_{\infty}^{\text{ABM}} = (290.7 \pm 0.089\%) \cdot 10^3$$

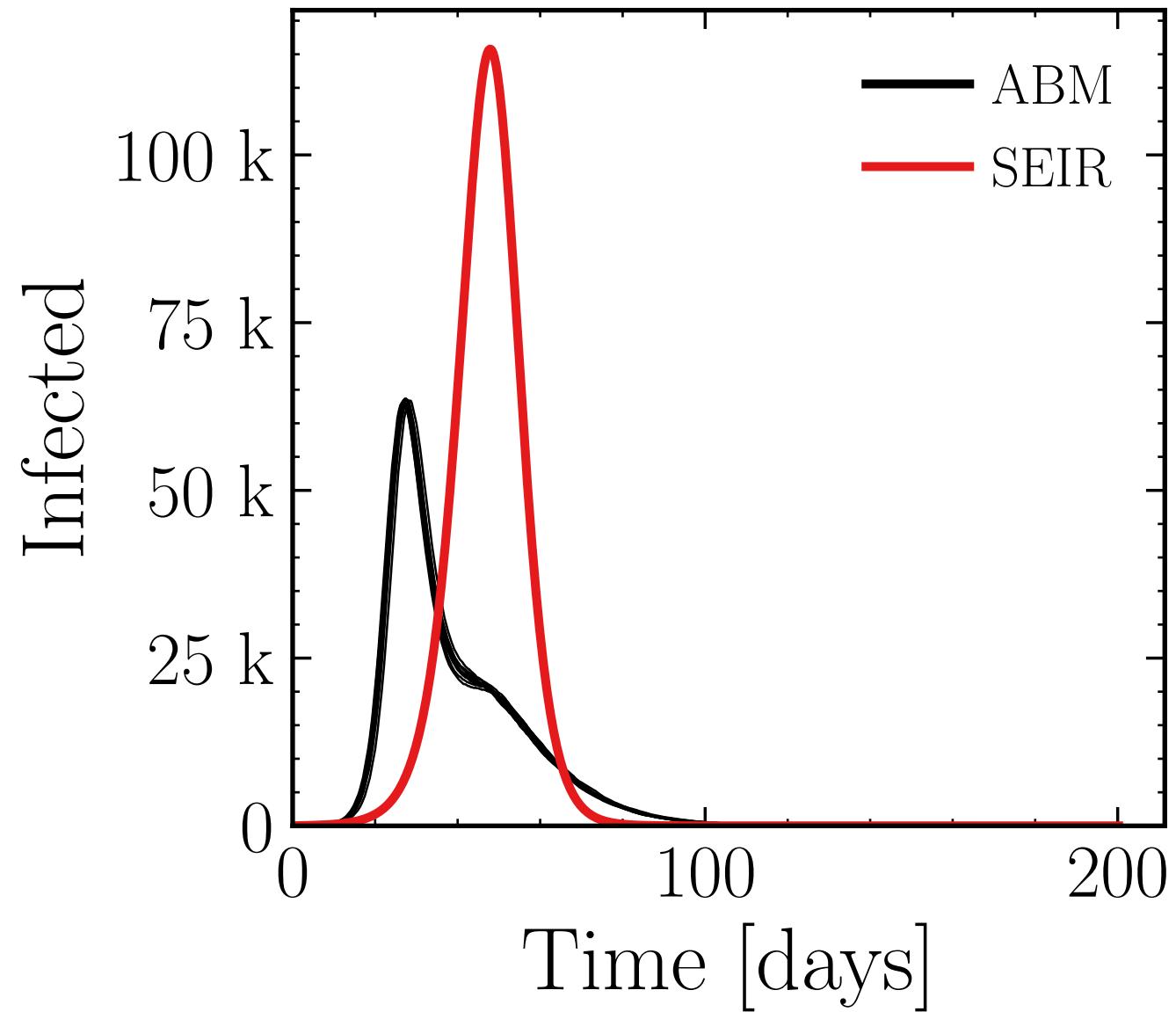


$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 70.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

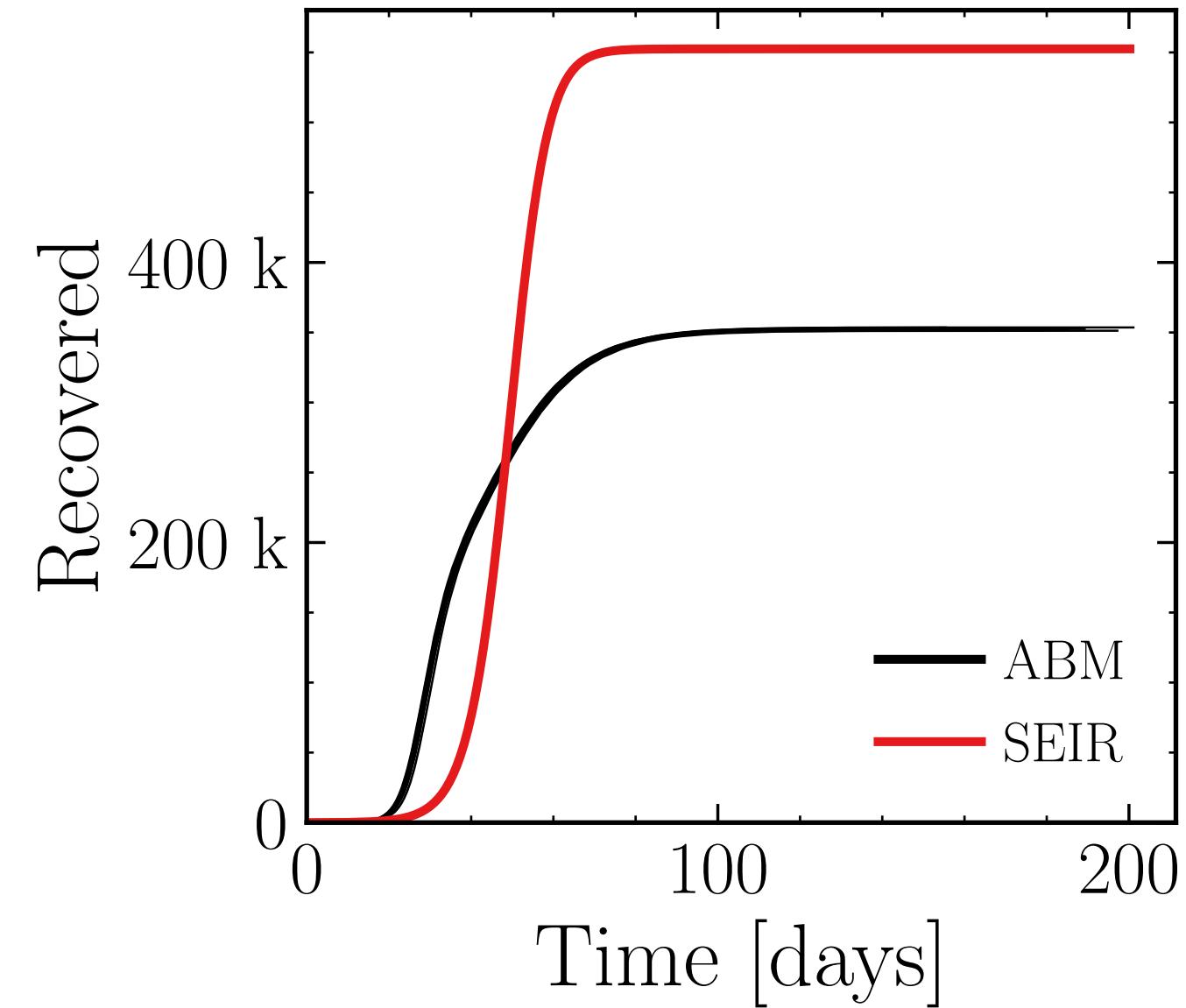


$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 80.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (63.23 \pm 0.15\%) \cdot 10^3$$

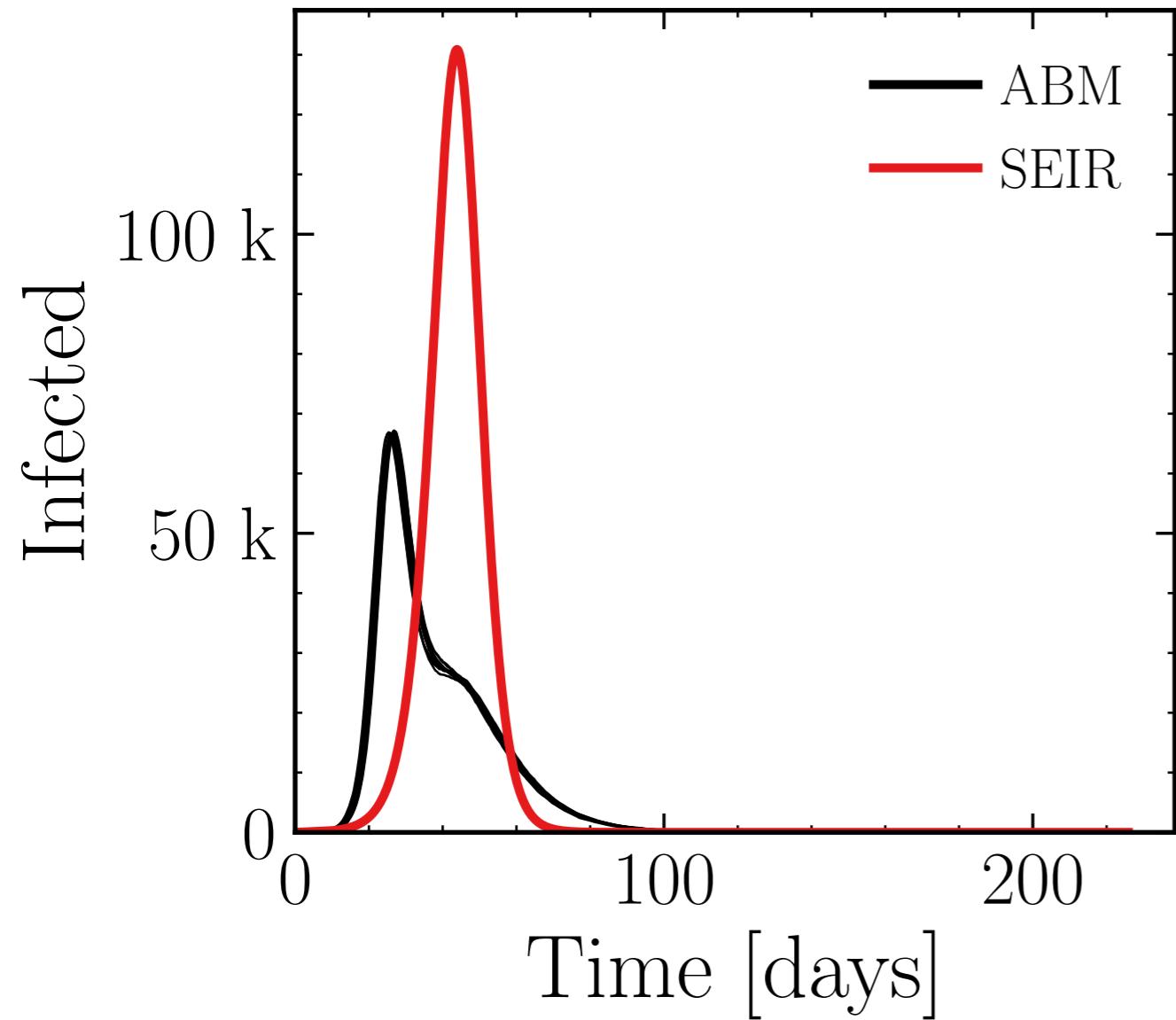


$$R_\infty^{\text{ABM}} = (352.4 \pm 0.074\%) \cdot 10^3$$

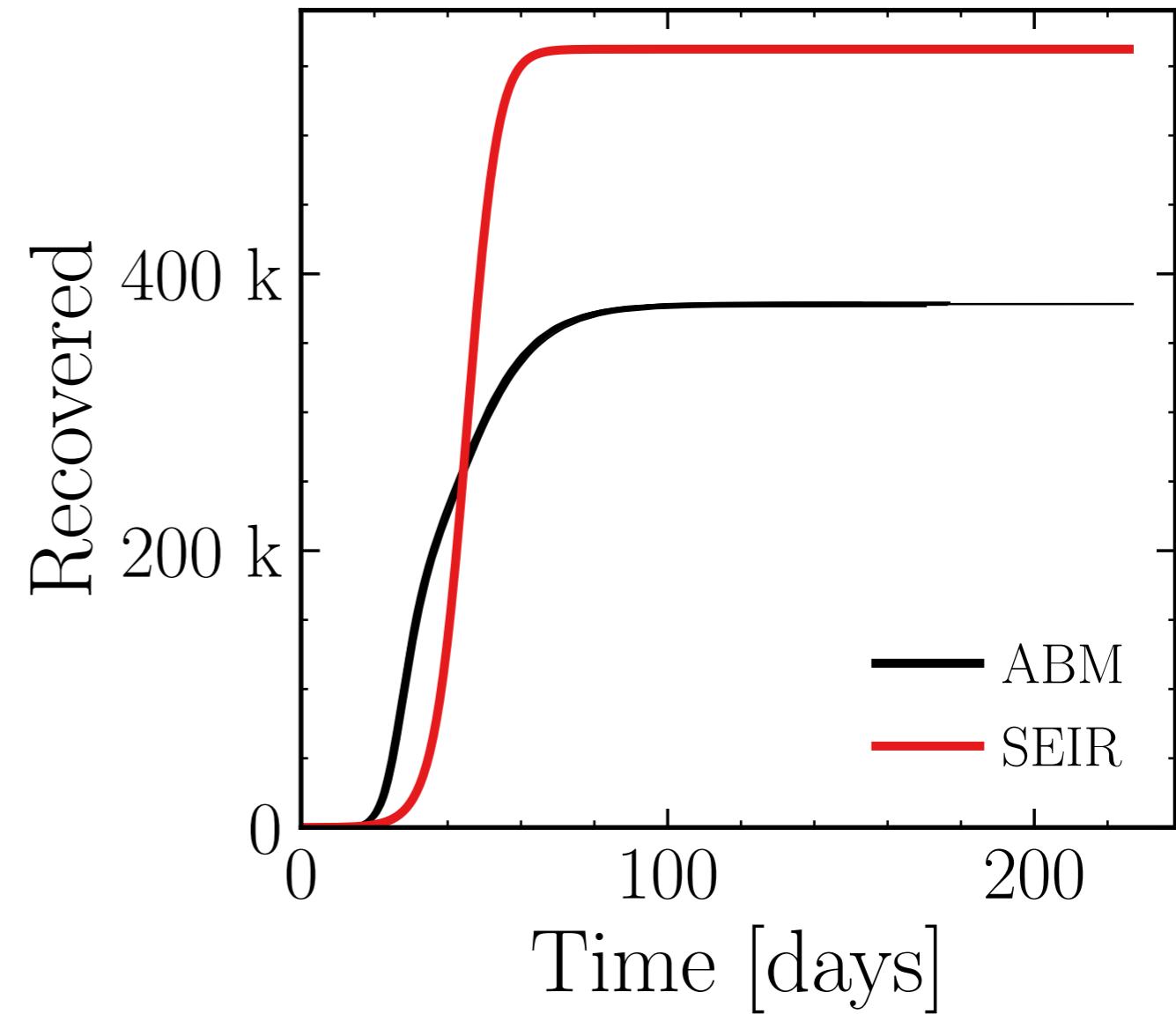


$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 90.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (66.72 \pm 0.13\%) \cdot 10^3$$



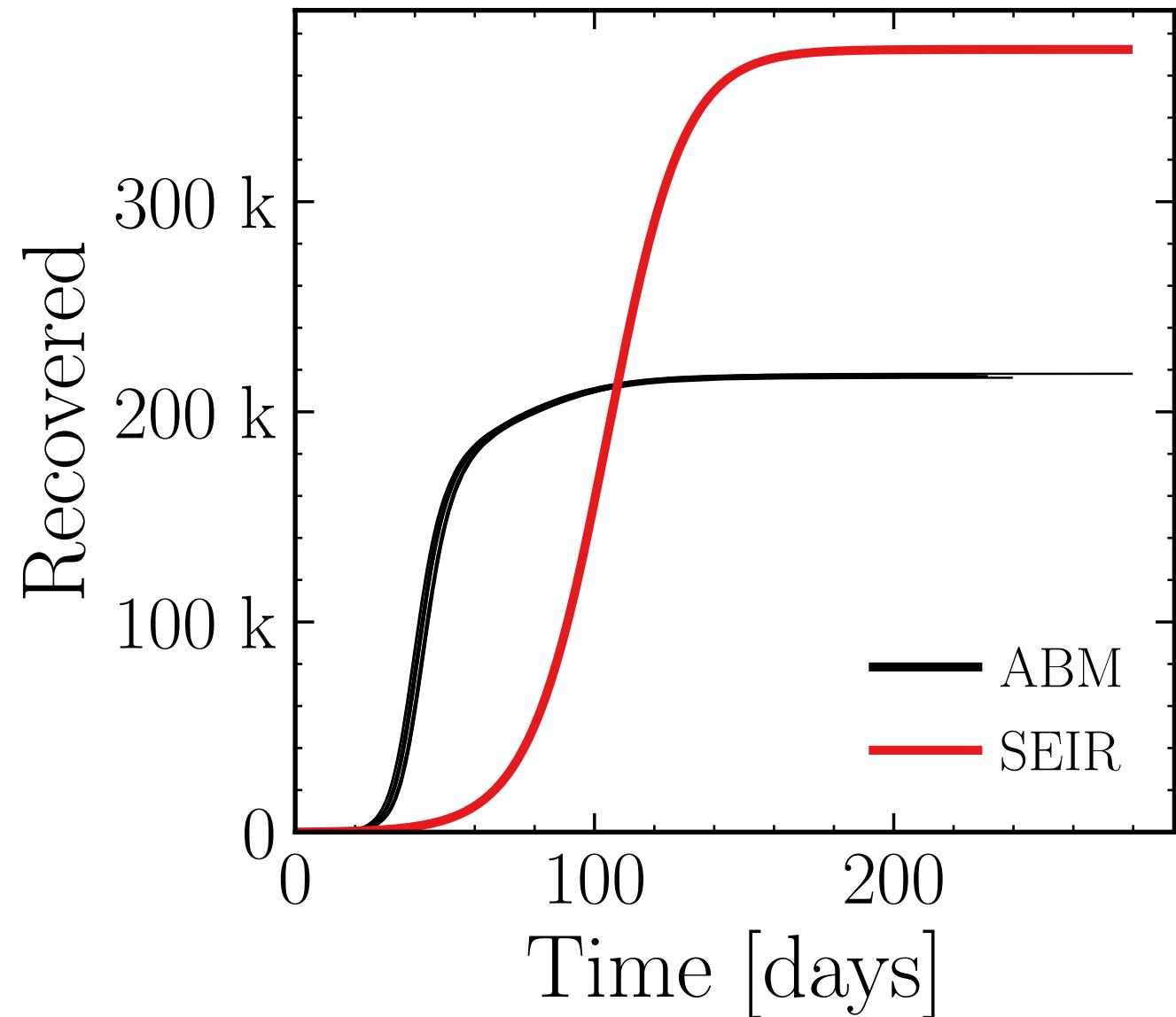
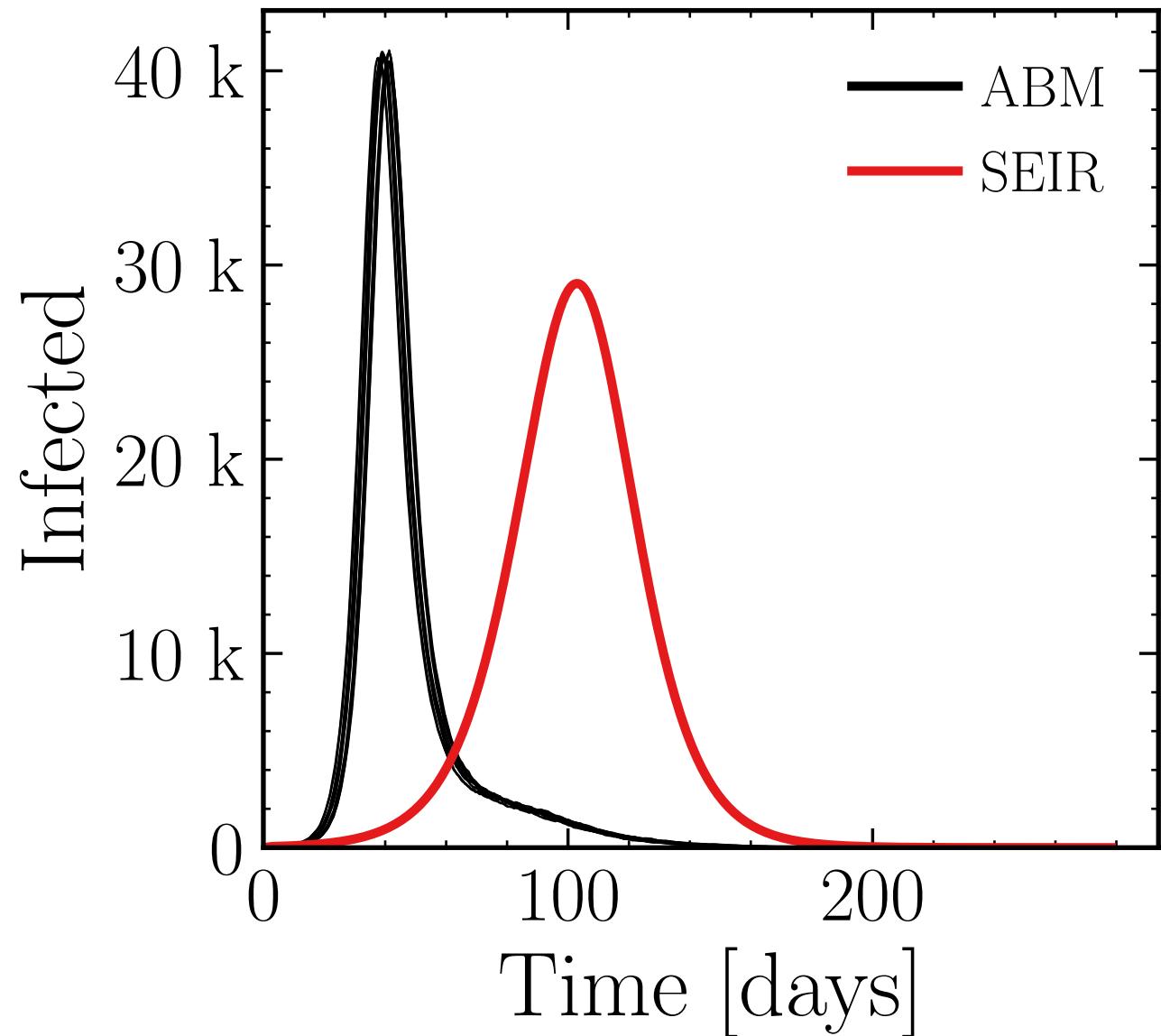
$$R_{\infty}^{\text{ABM}} = (378.3 \pm 0.067\%) \cdot 10^3$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.05$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (40.73 \pm 0.15\%) \cdot 10^3$$

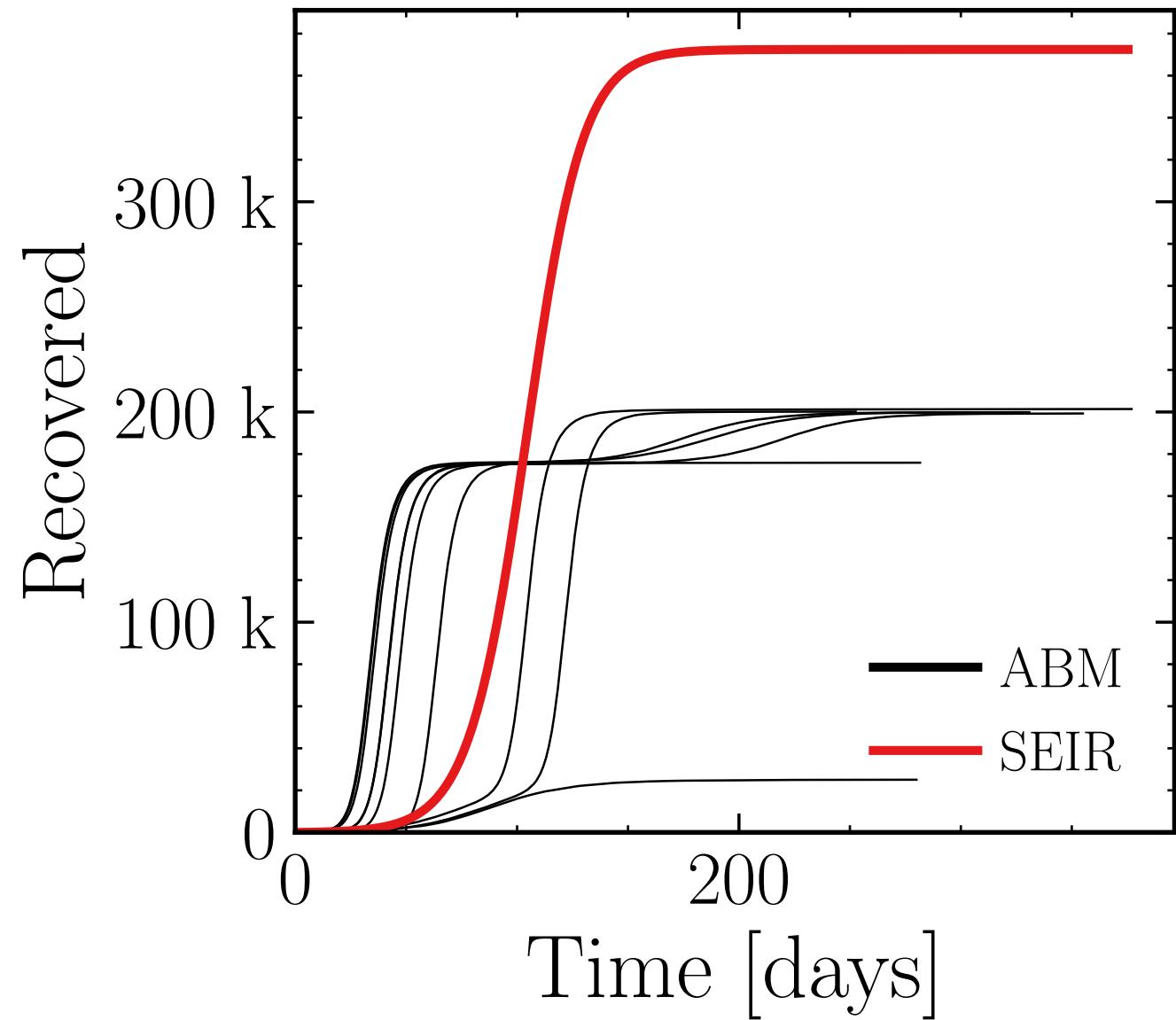
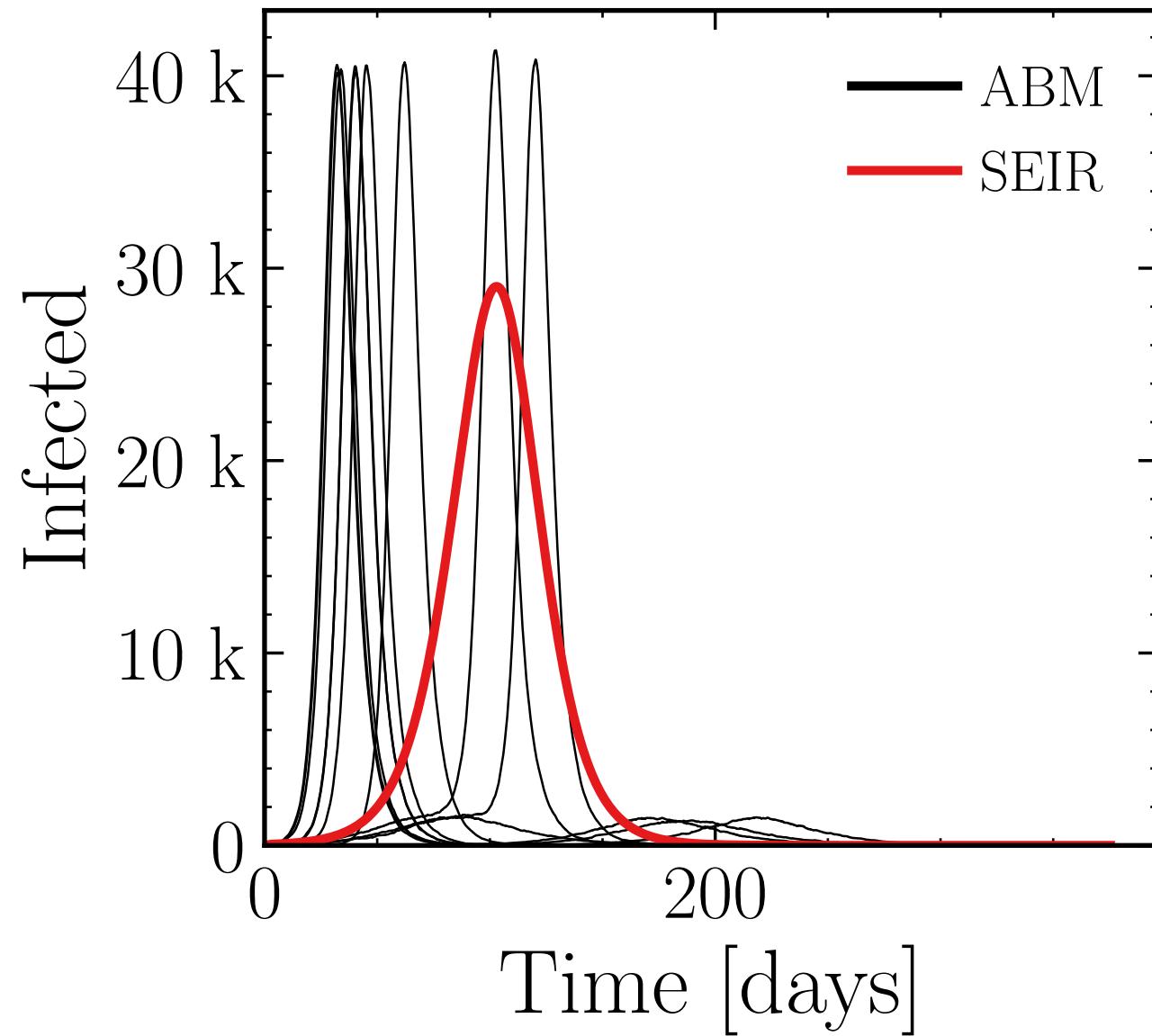
$$R_\infty^{\text{ABM}} = (217.3 \pm 0.072\%) \cdot 10^3$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.0$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = False,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (37 \pm 1e+01\%) \cdot 10^3$$

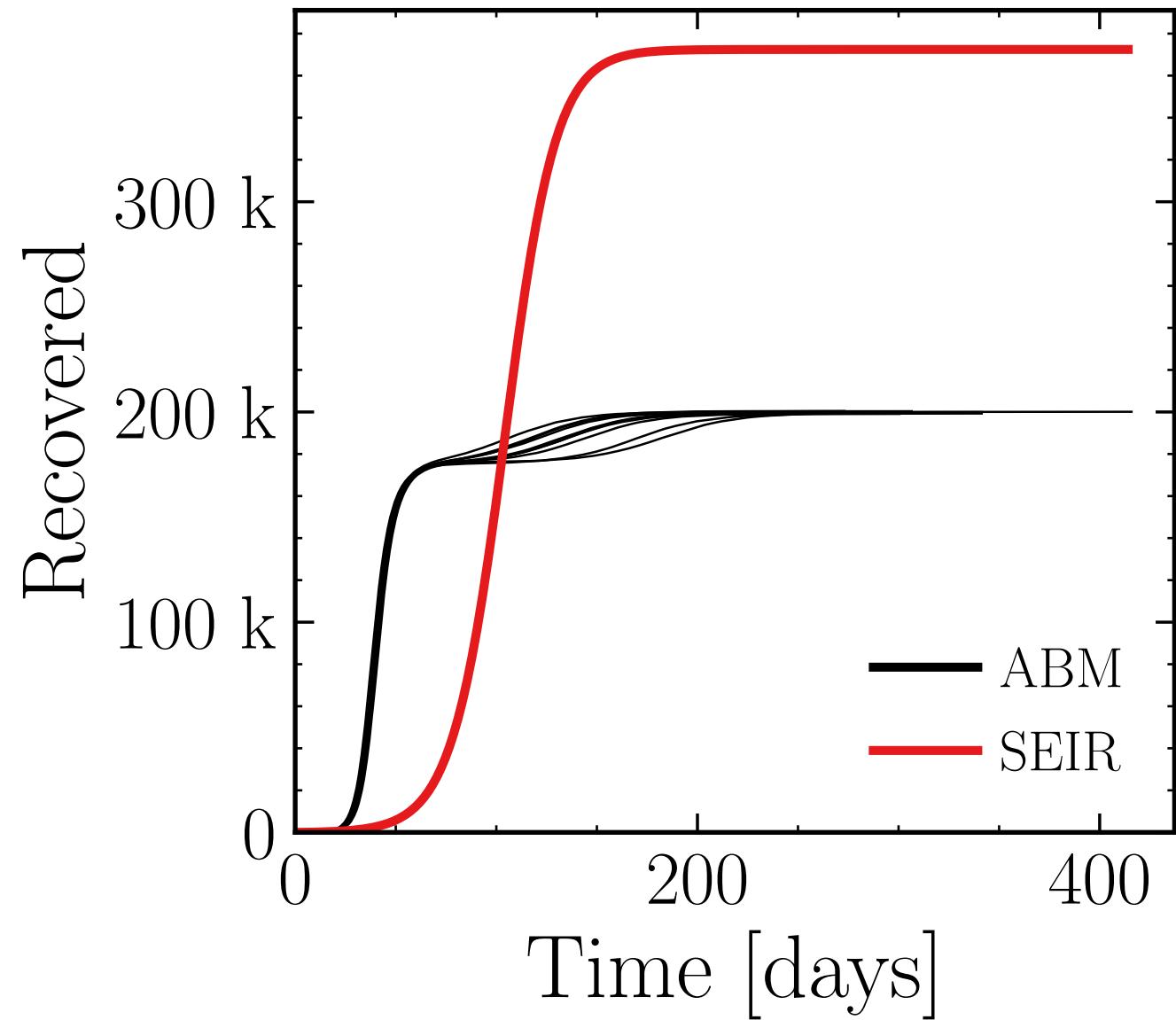
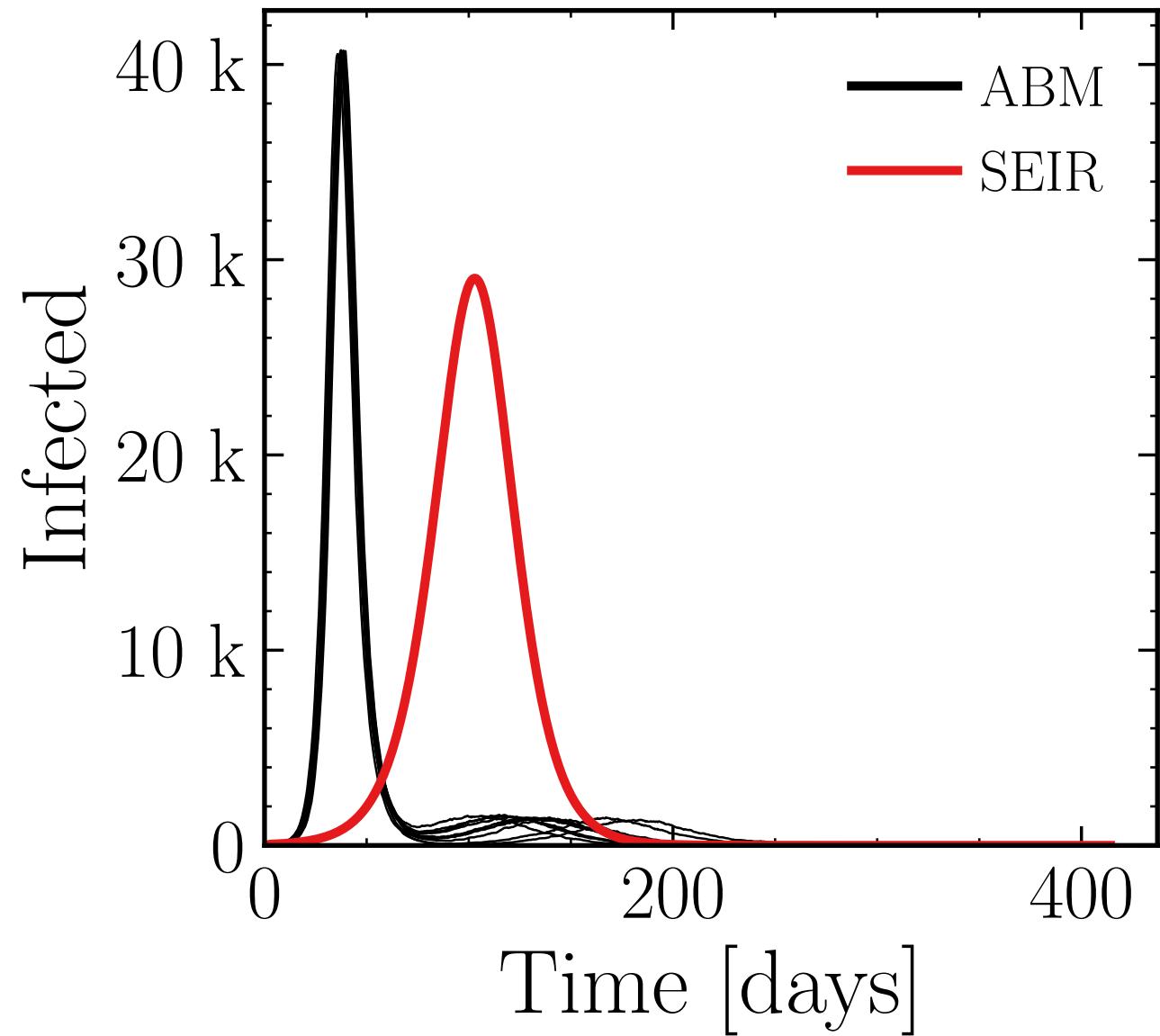
$$R_\infty^{\text{ABM}} = (170 \pm 9.3\%) \cdot 10^3$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.0$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (40.49 \pm 0.16\%) \cdot 10^3$$

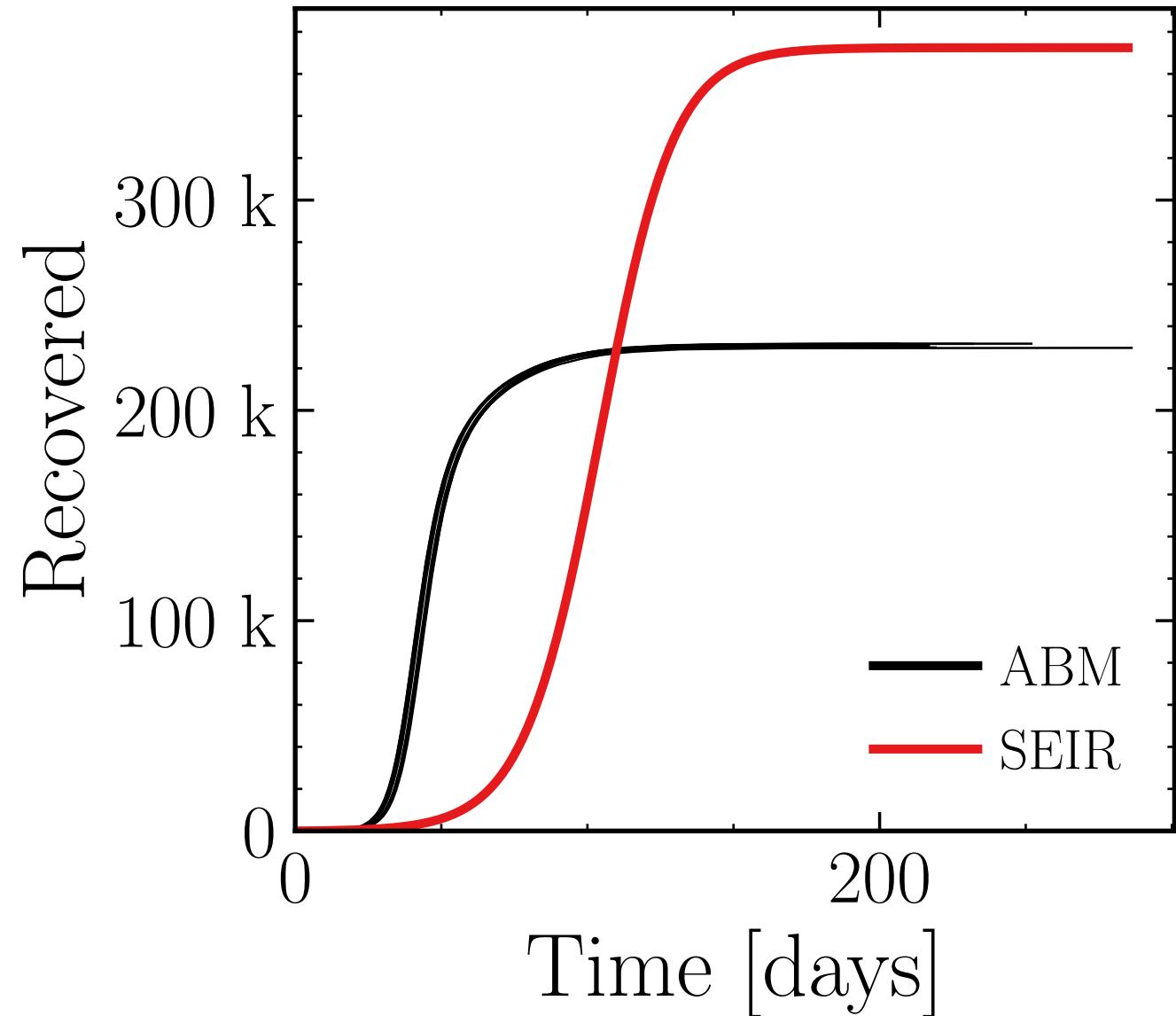
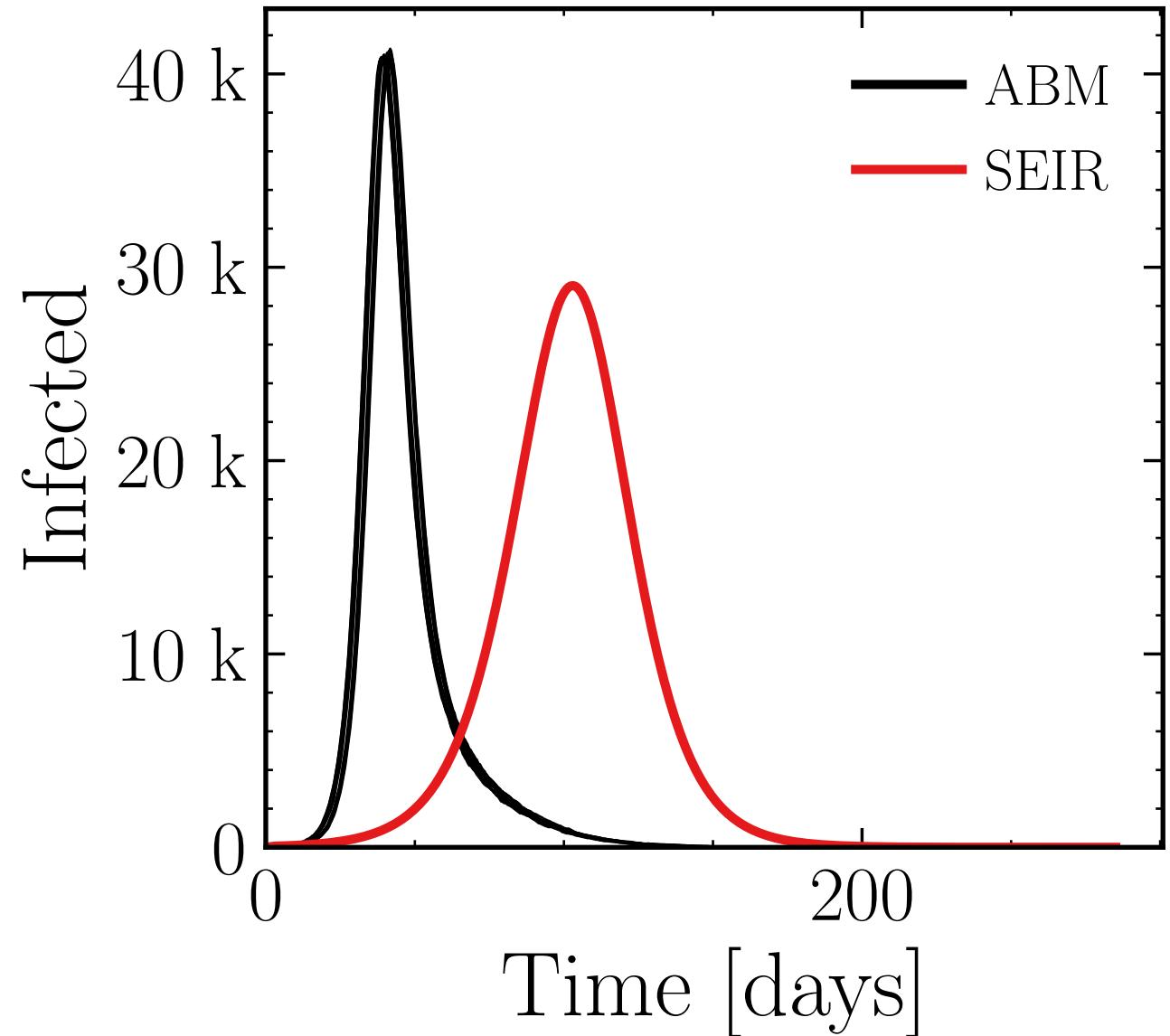
$$R_\infty^{\text{ABM}} = (199.9 \pm 0.07\%) \cdot 10^3$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

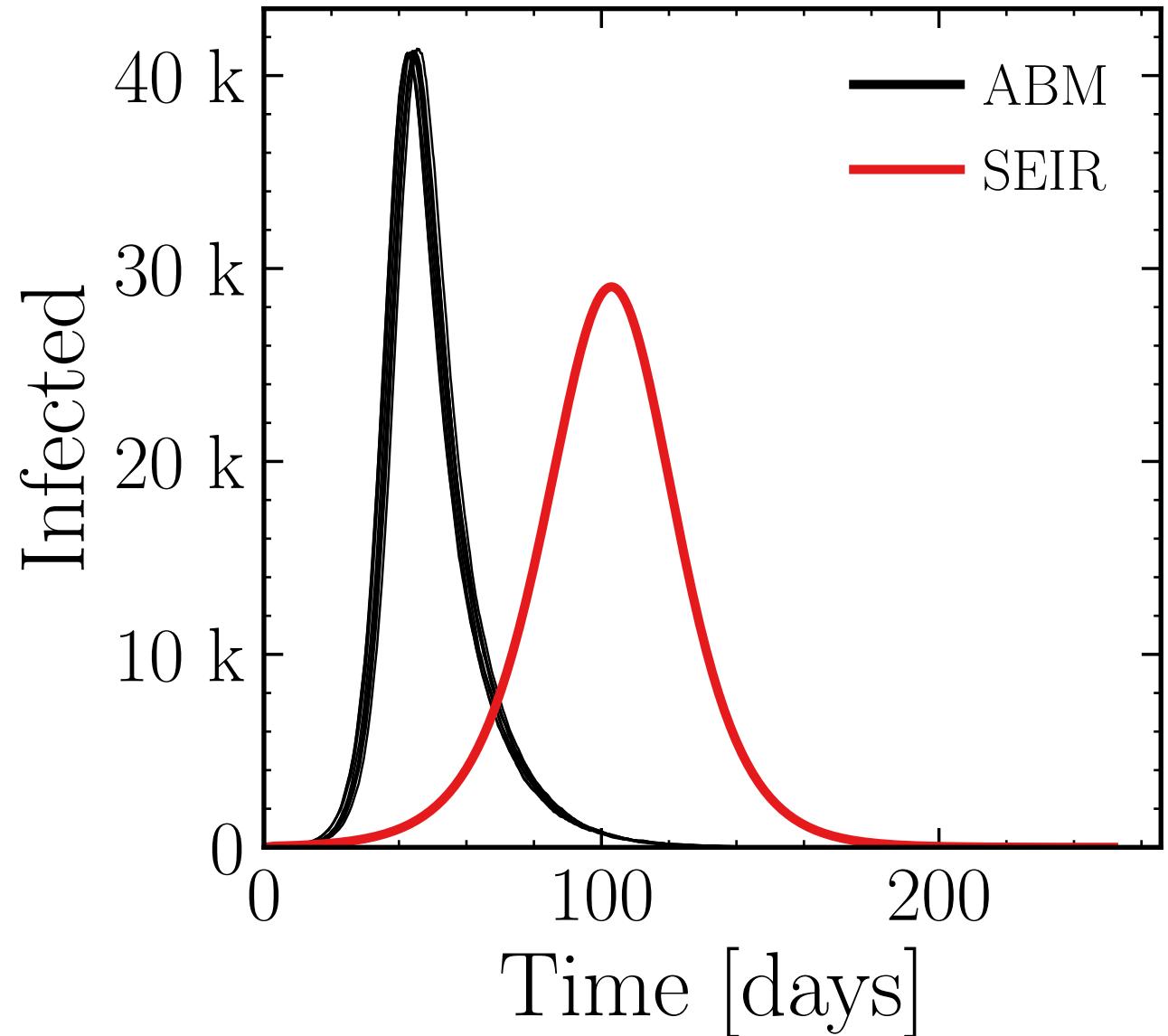
$$I_{\max}^{\text{ABM}} = (40.95 \pm 0.16\%) \cdot 10^3$$

$$R_\infty^{\text{ABM}} = (230.8 \pm 0.094\%) \cdot 10^3$$

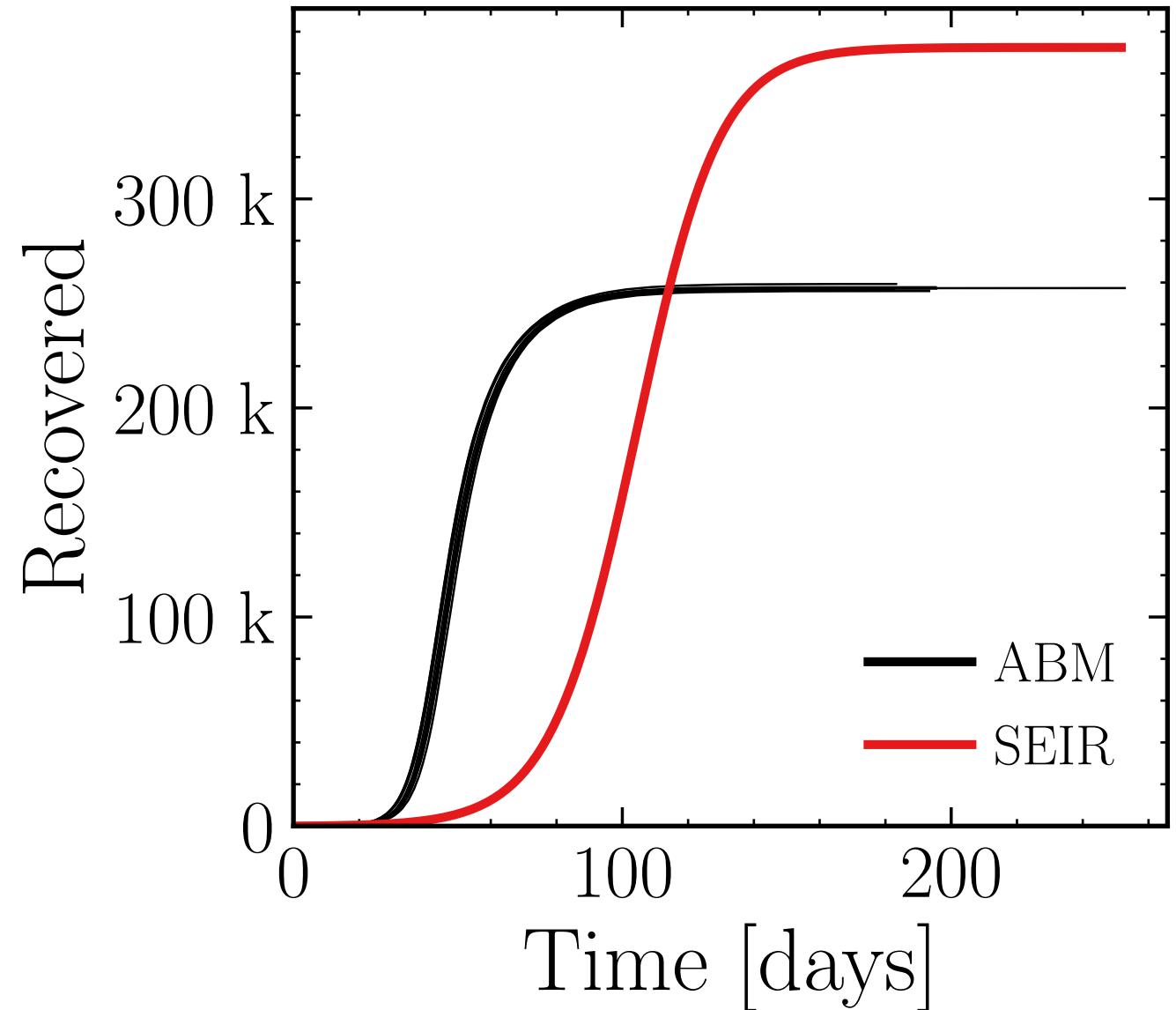


$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.2$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (41.13 \pm 0.13\%) \cdot 10^3$$



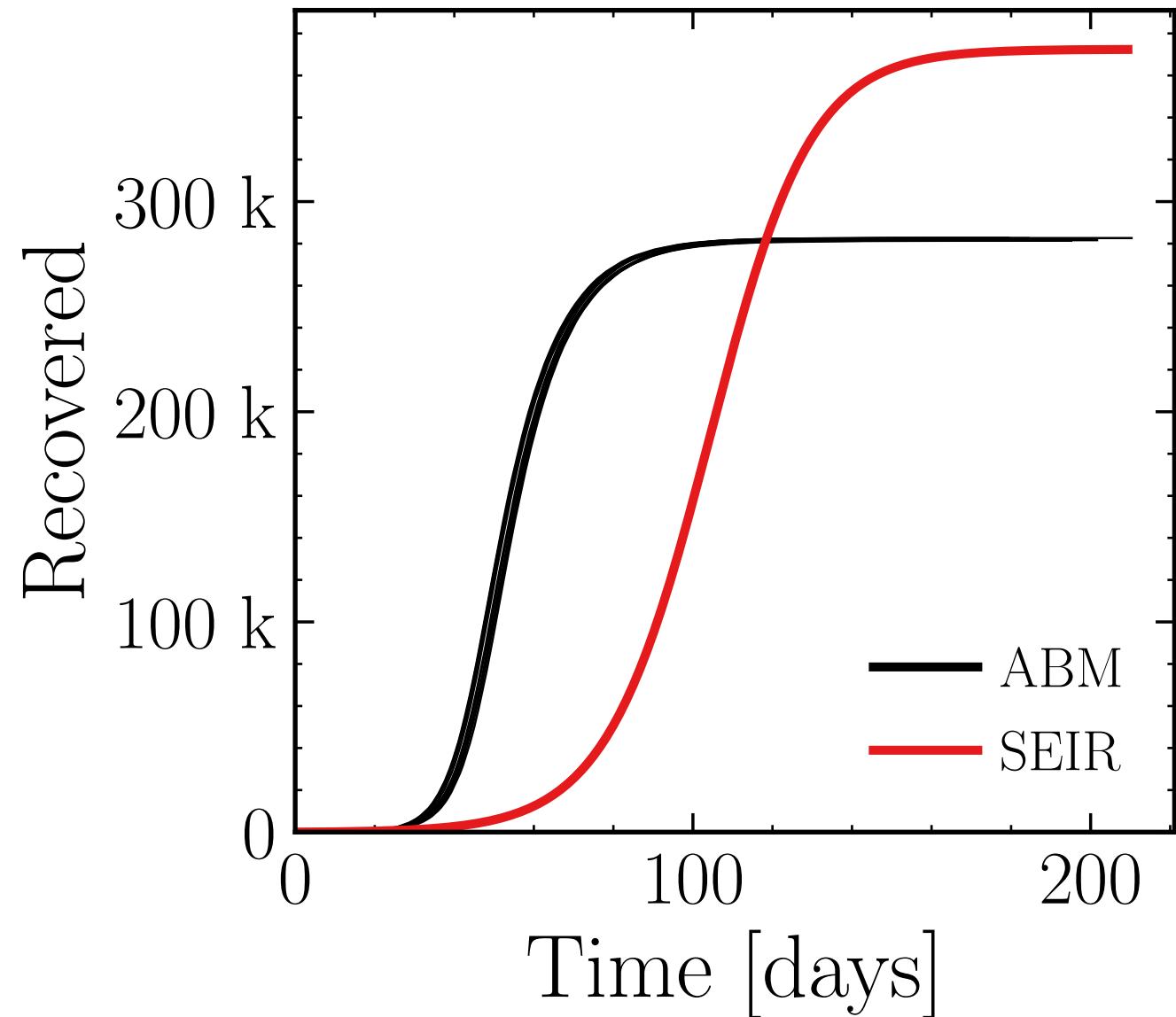
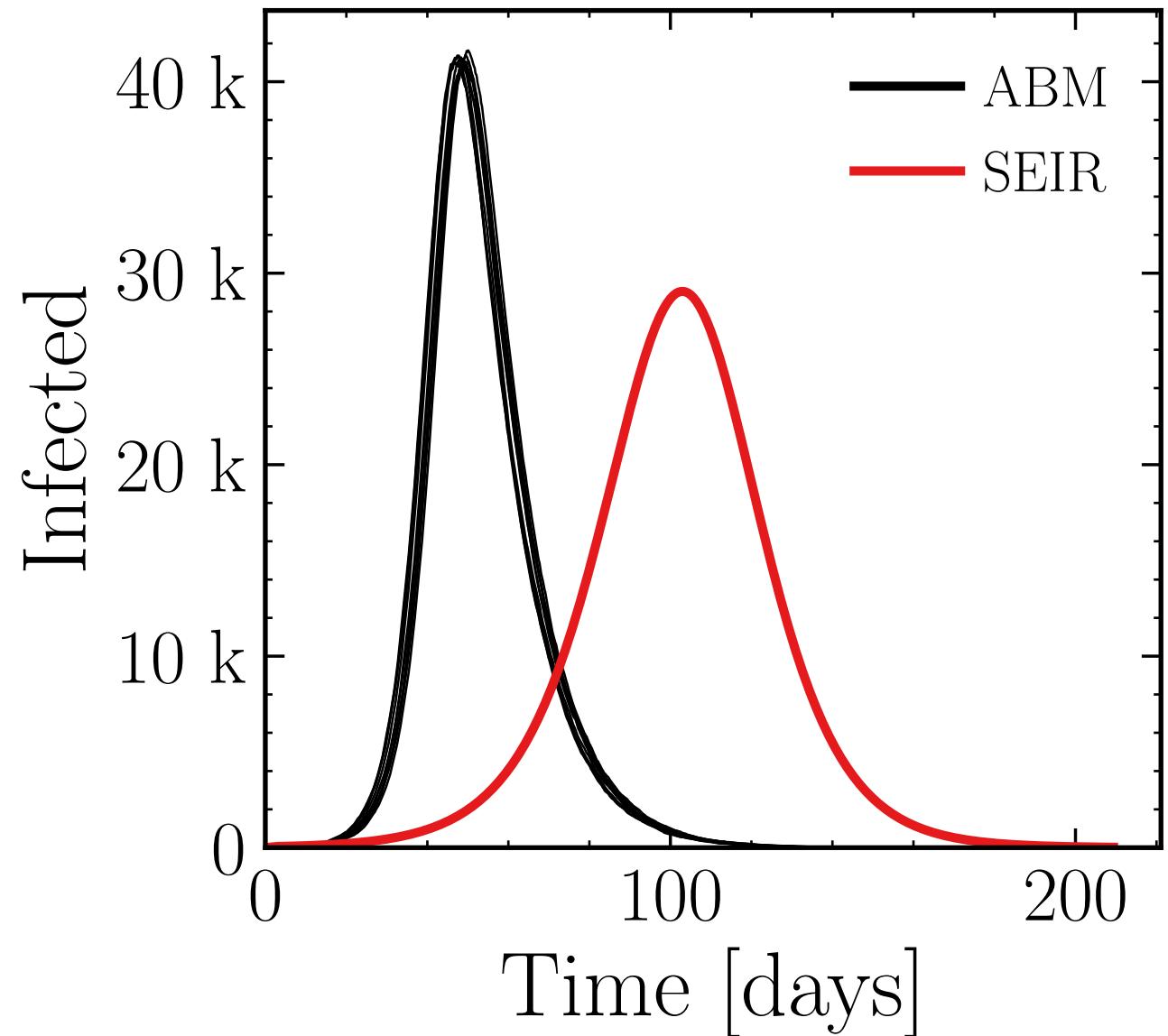
$$R_\infty^{\text{ABM}} = (257.2 \pm 0.11\%) \cdot 10^3$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.3$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (41.21 \pm 0.16\%) \cdot 10^3$$

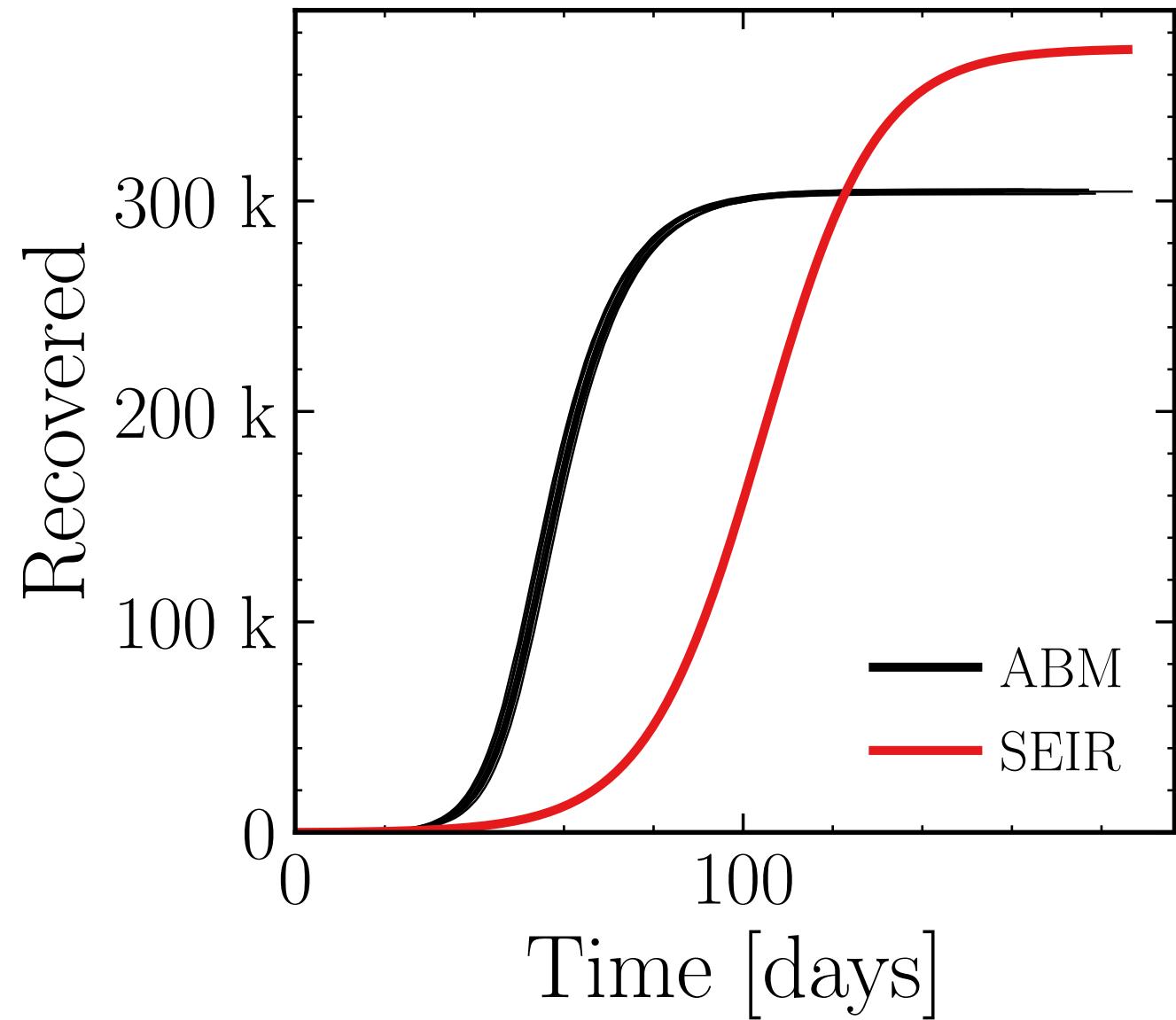
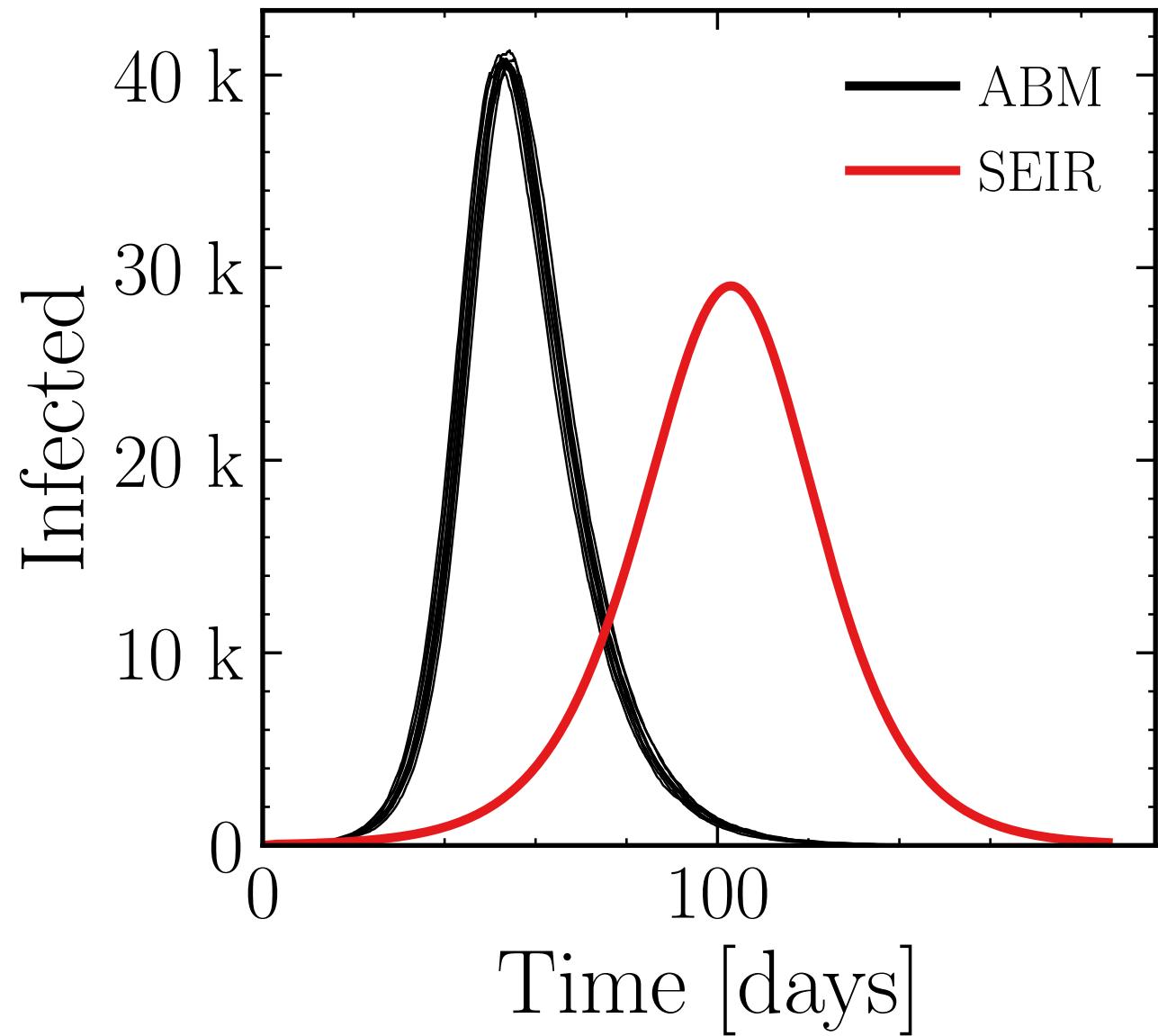
$$R_\infty^{\text{ABM}} = (282.2 \pm 0.058\%) \cdot 10^3$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.4$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

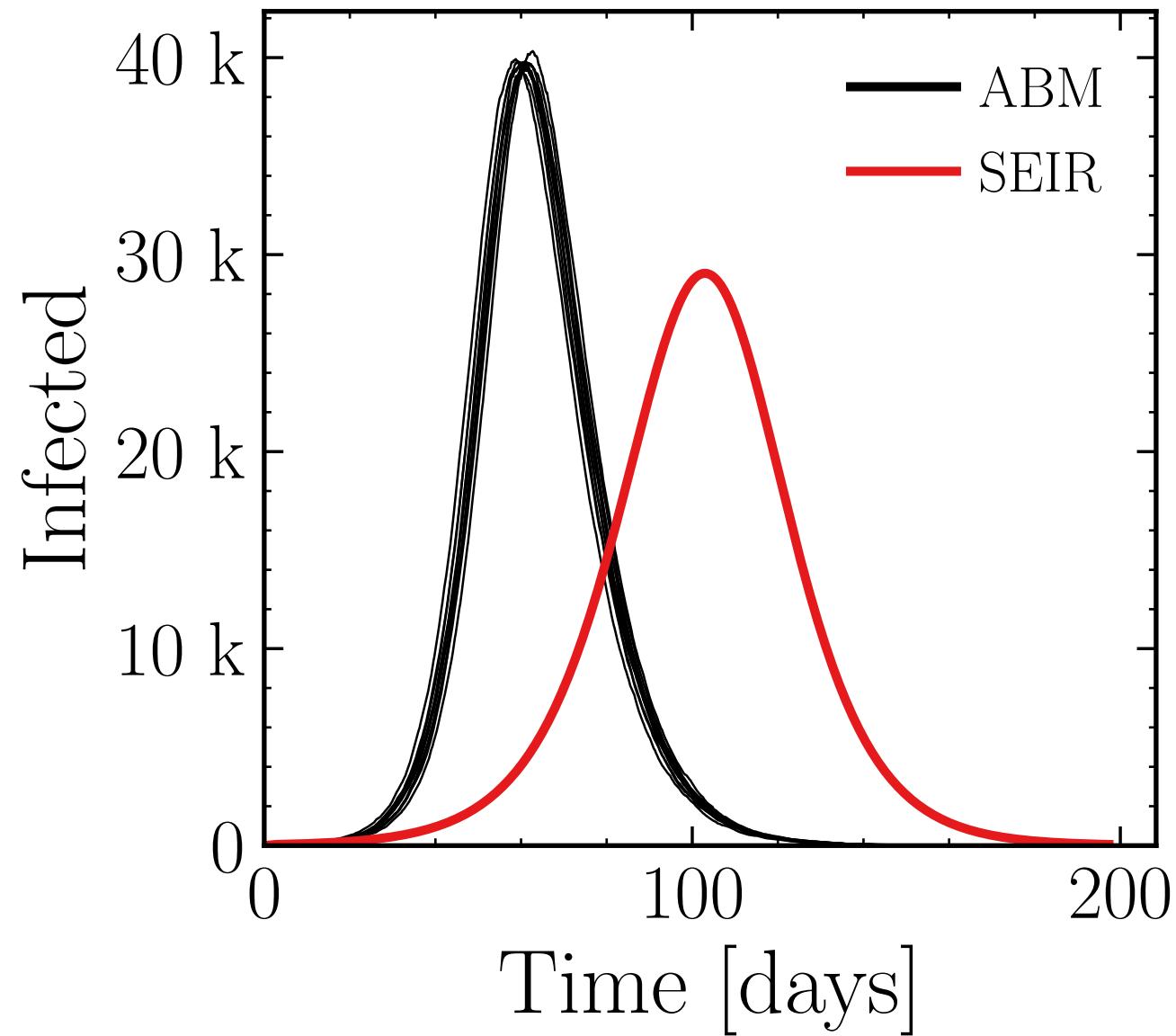
$$I_{\max}^{\text{ABM}} = (40.78 \pm 0.17\%) \cdot 10^3$$

$$R_\infty^{\text{ABM}} = (304.7 \pm 0.085\%) \cdot 10^3$$

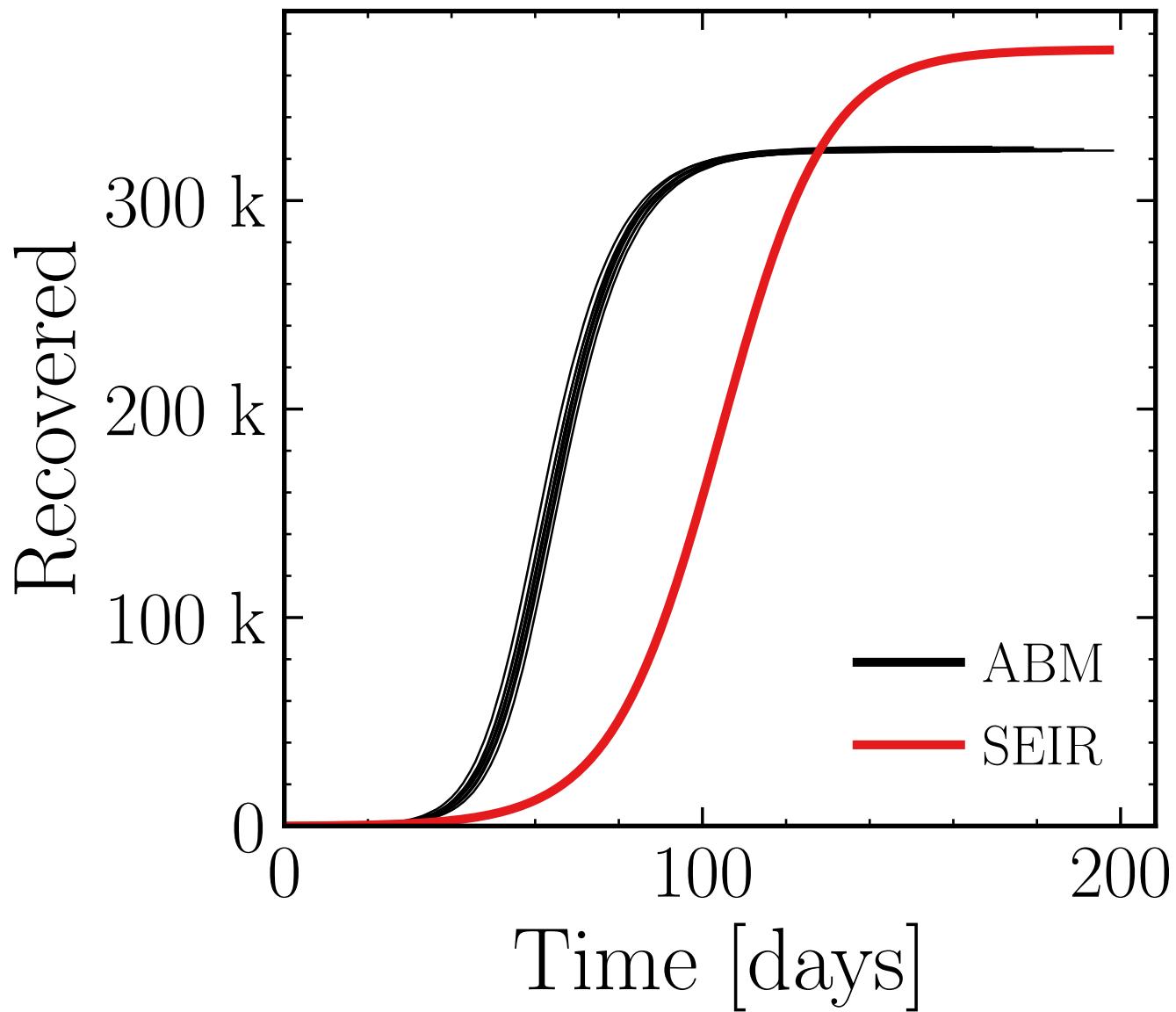


$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.5$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (39.76 \pm 0.18\%) \cdot 10^3$$



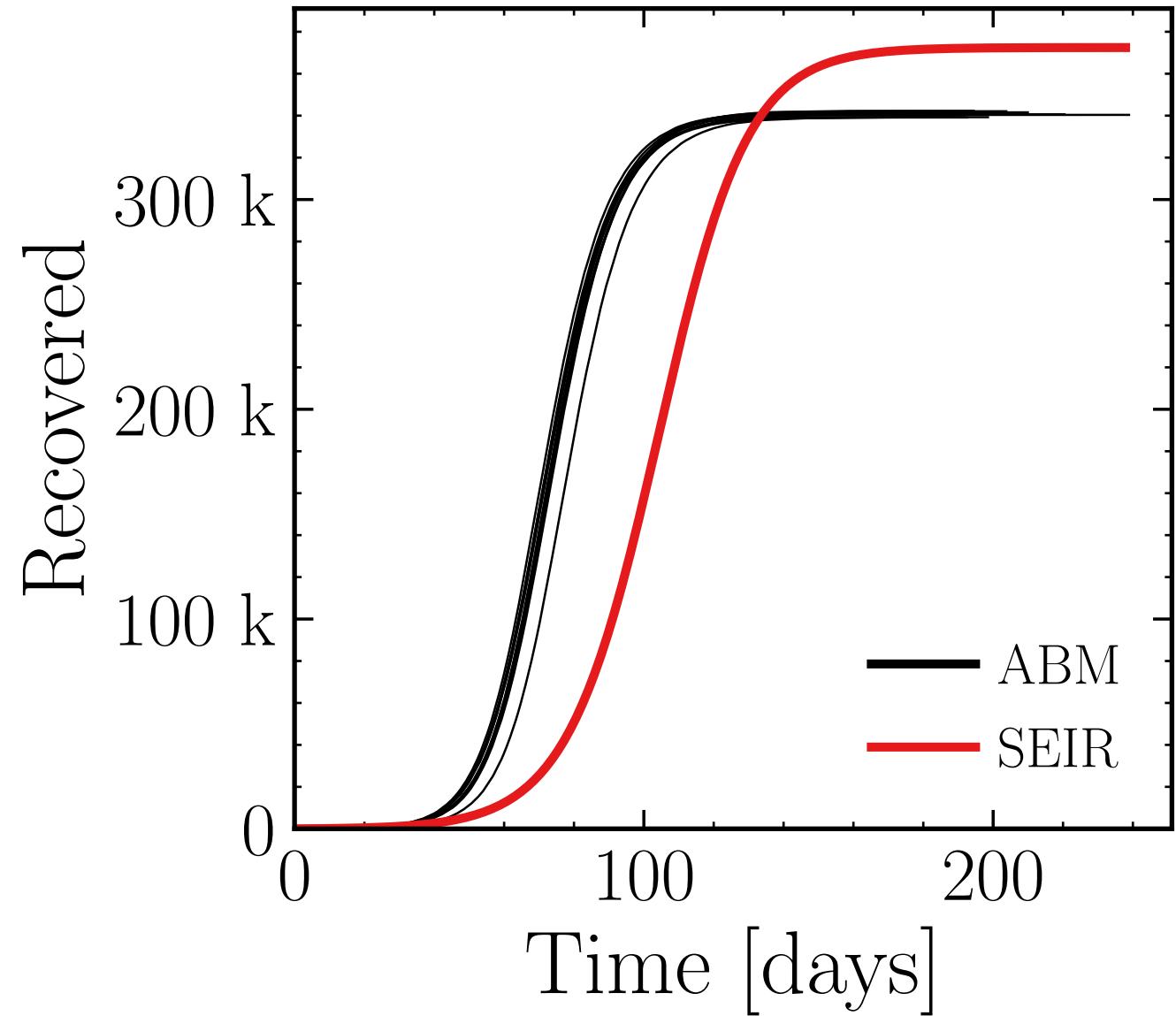
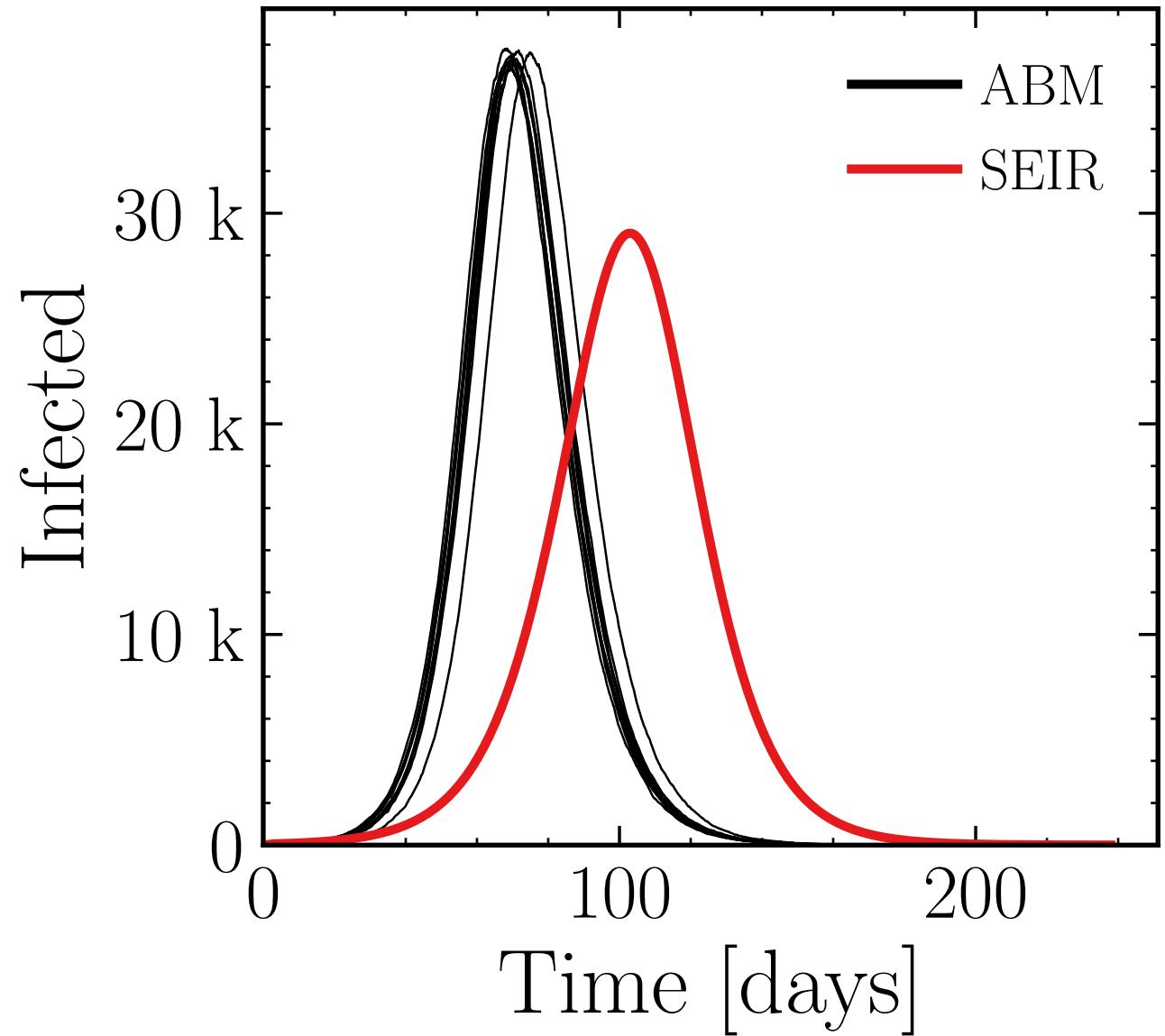
$$R_\infty^{\text{ABM}} = (324.6 \pm 0.078\%) \cdot 10^3$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.6$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (37.35 \pm 0.24\%) \cdot 10^3$$

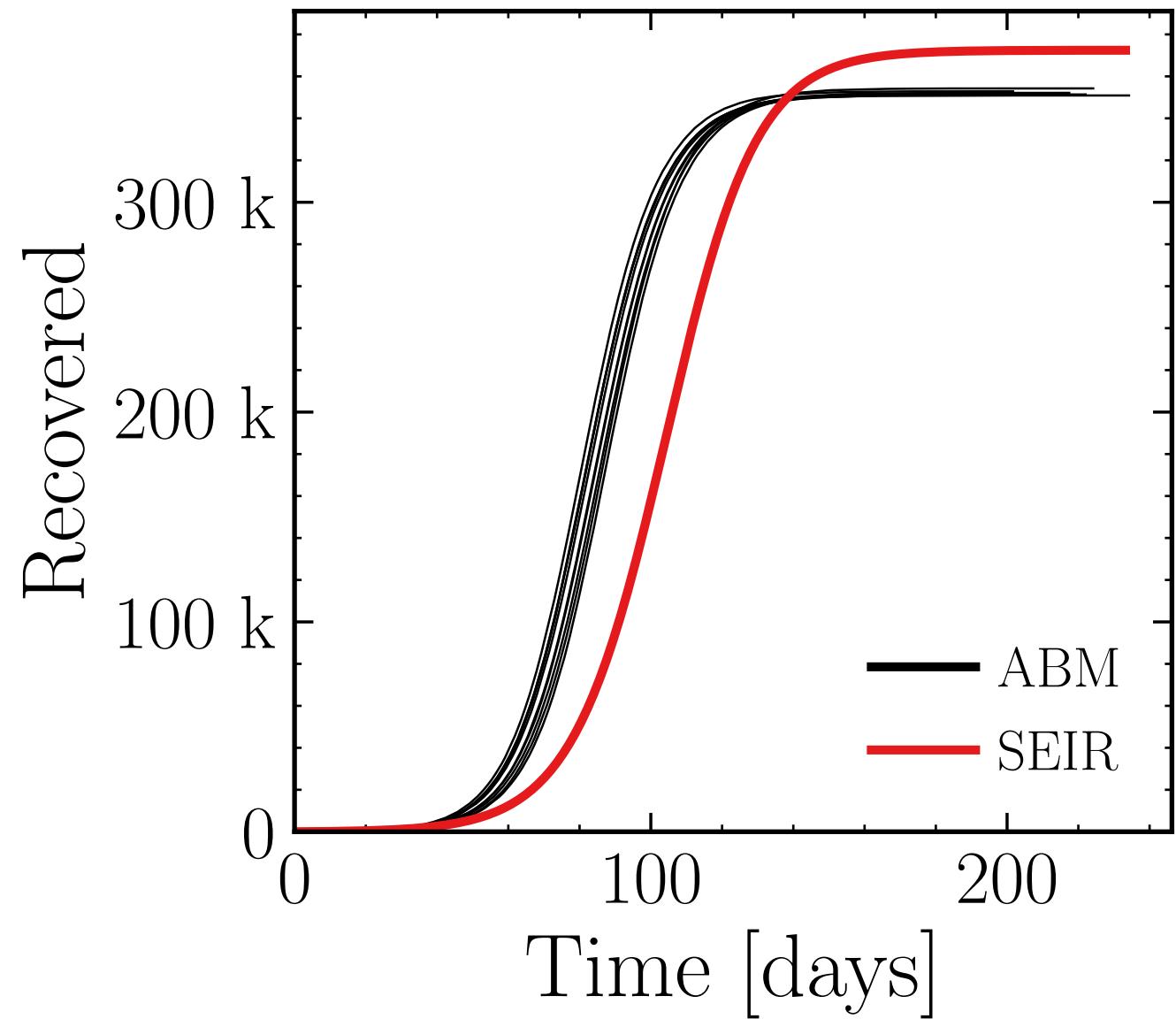
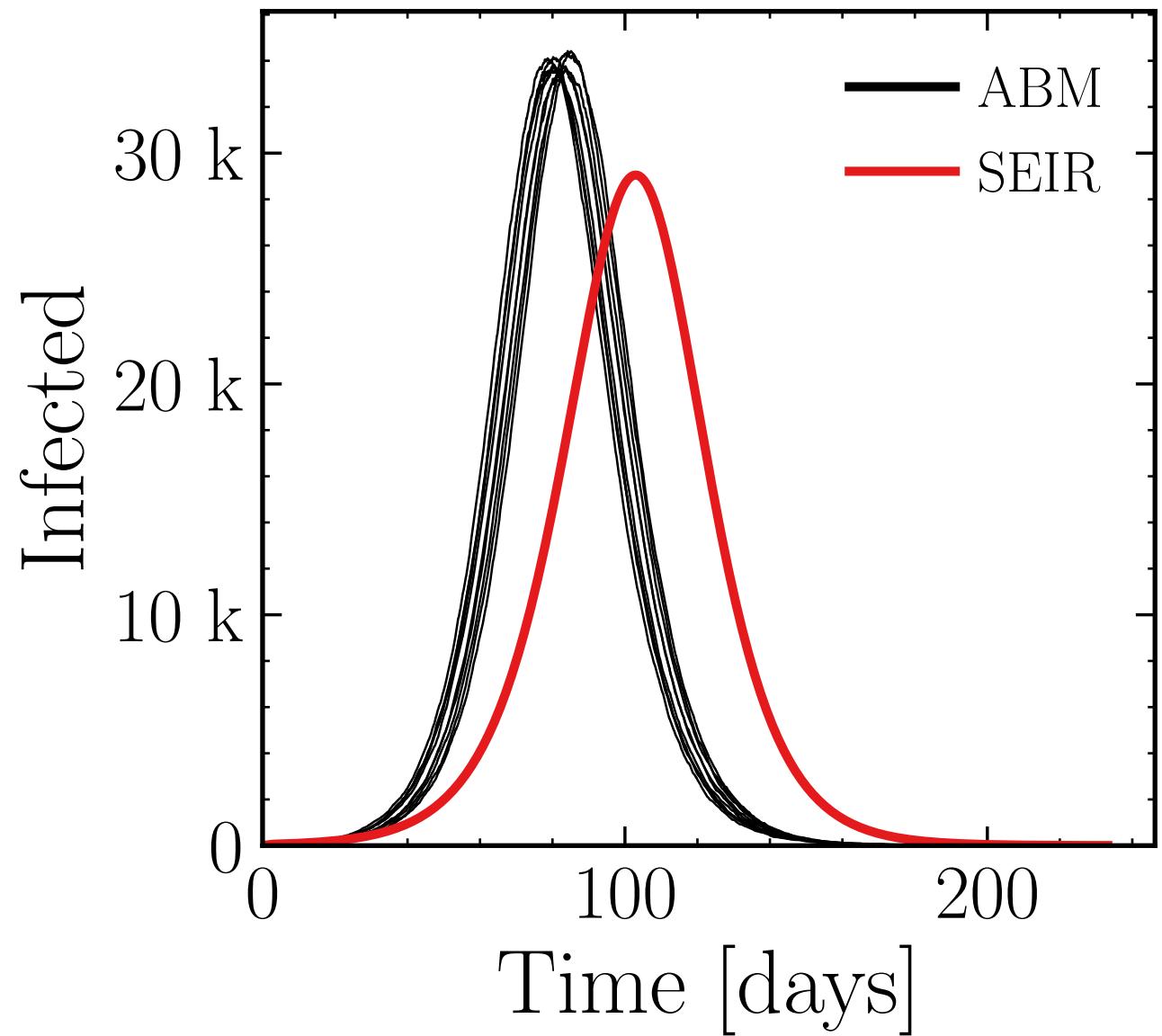
$$R_\infty^{\text{ABM}} = (340.5 \pm 0.11\%) \cdot 10^3$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.7$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (33.93 \pm 0.26\%) \cdot 10^3$$

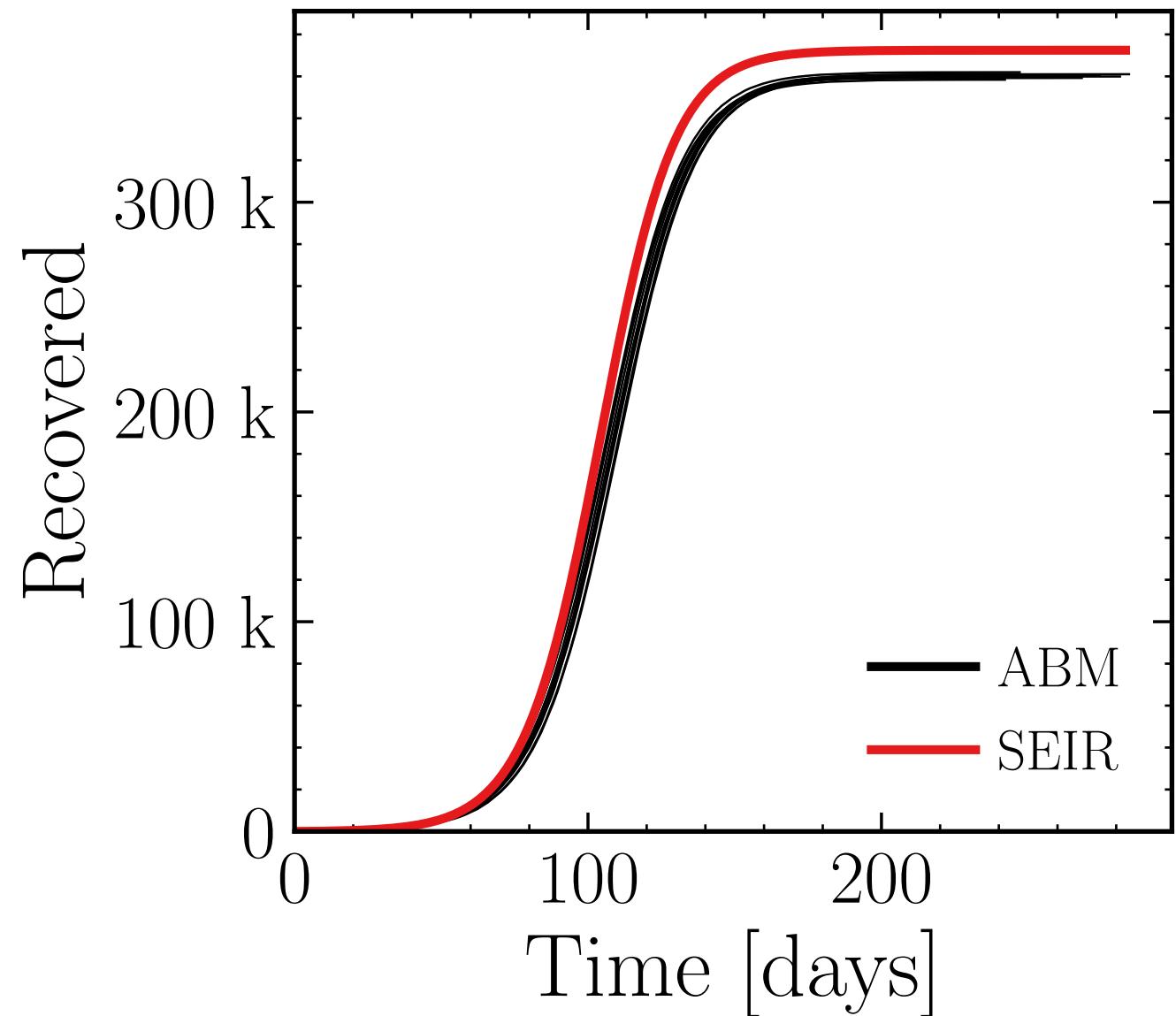
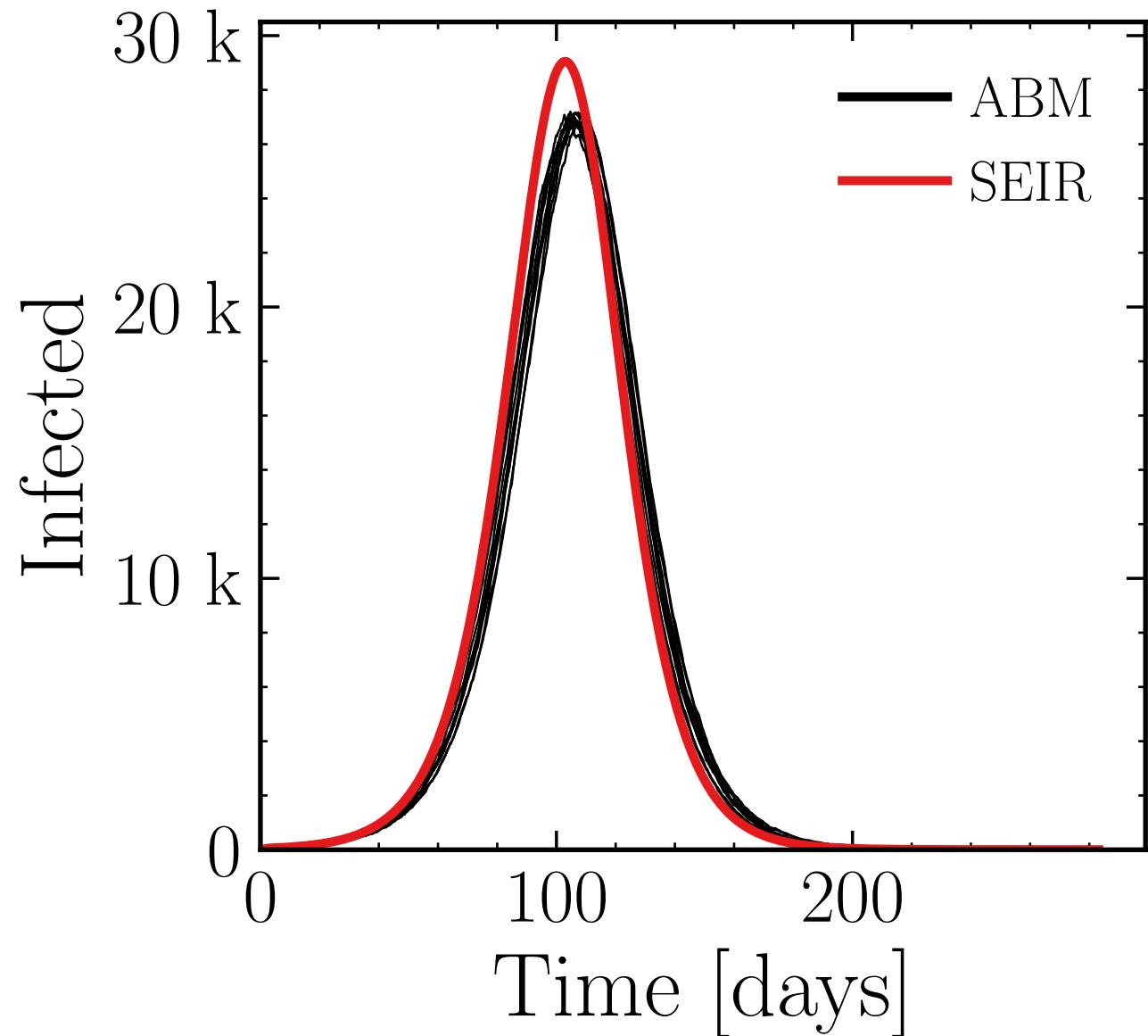
$$R_\infty^{\text{ABM}} = (351.9 \pm 0.089\%) \cdot 10^3$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.95$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (26.94 \pm 0.19\%) \cdot 10^3$$

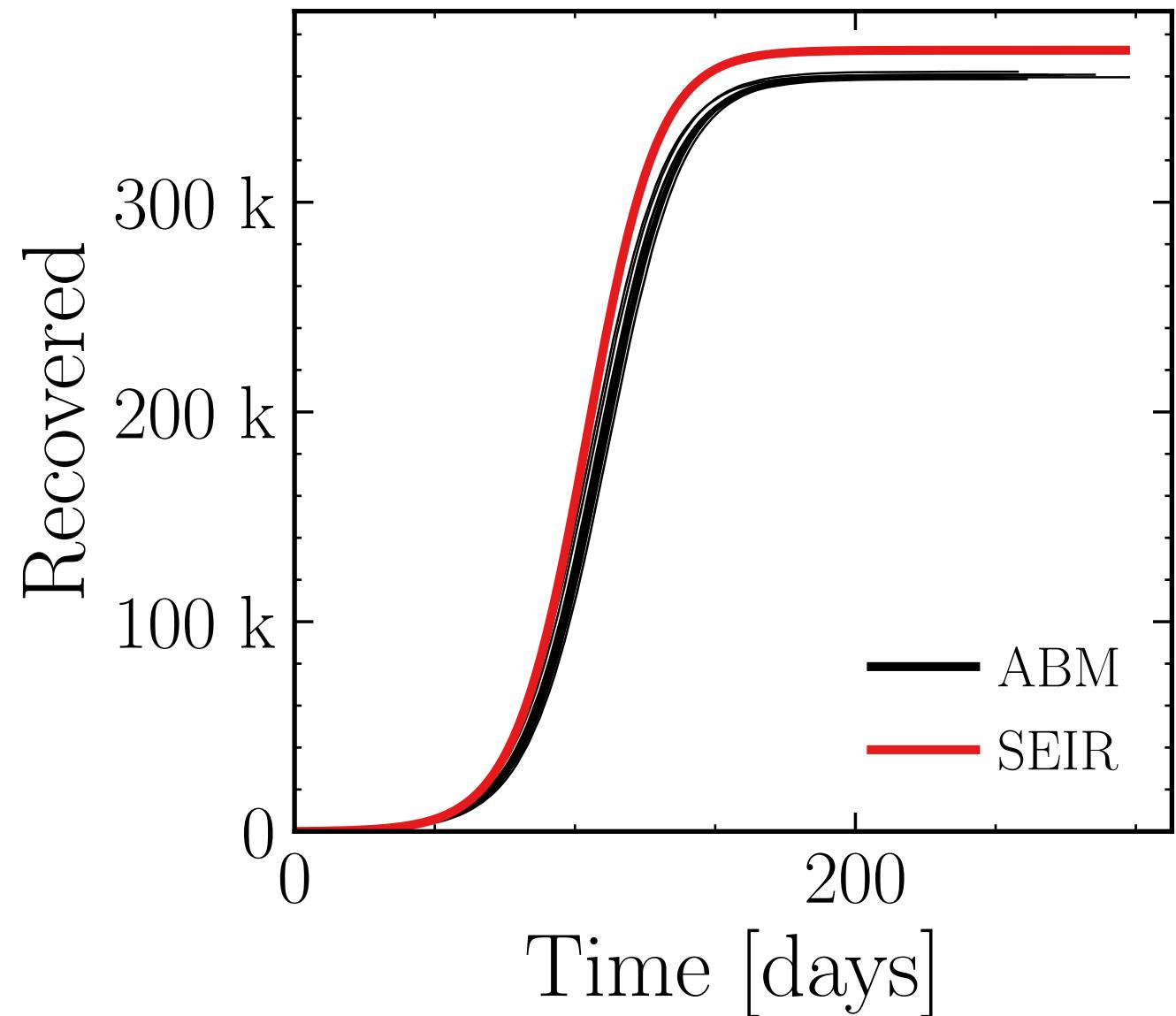
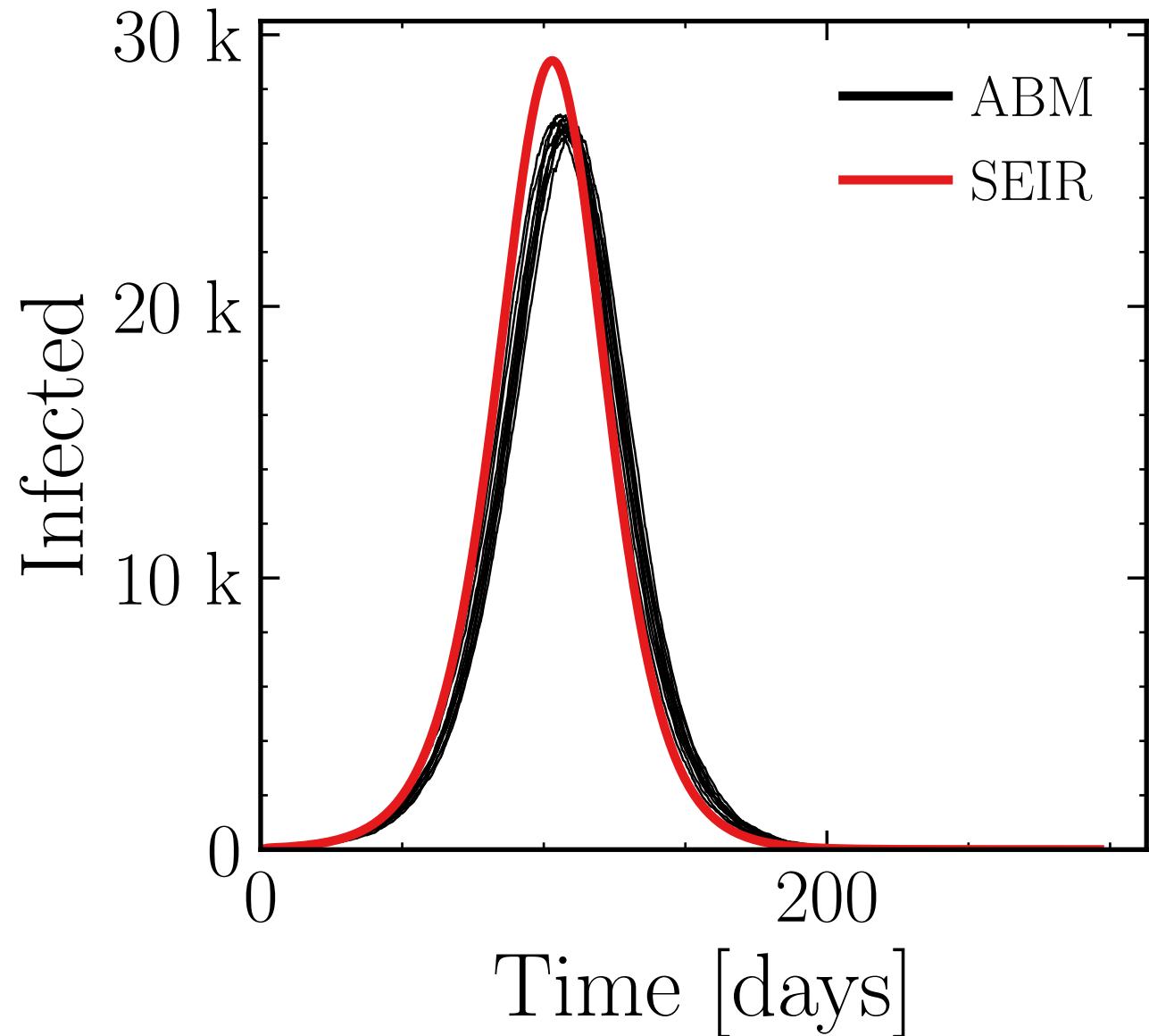
$$R_\infty^{\text{ABM}} = (360.3 \pm 0.082\%) \cdot 10^3$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.99$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (26.74 \pm 0.23\%) \cdot 10^3$$

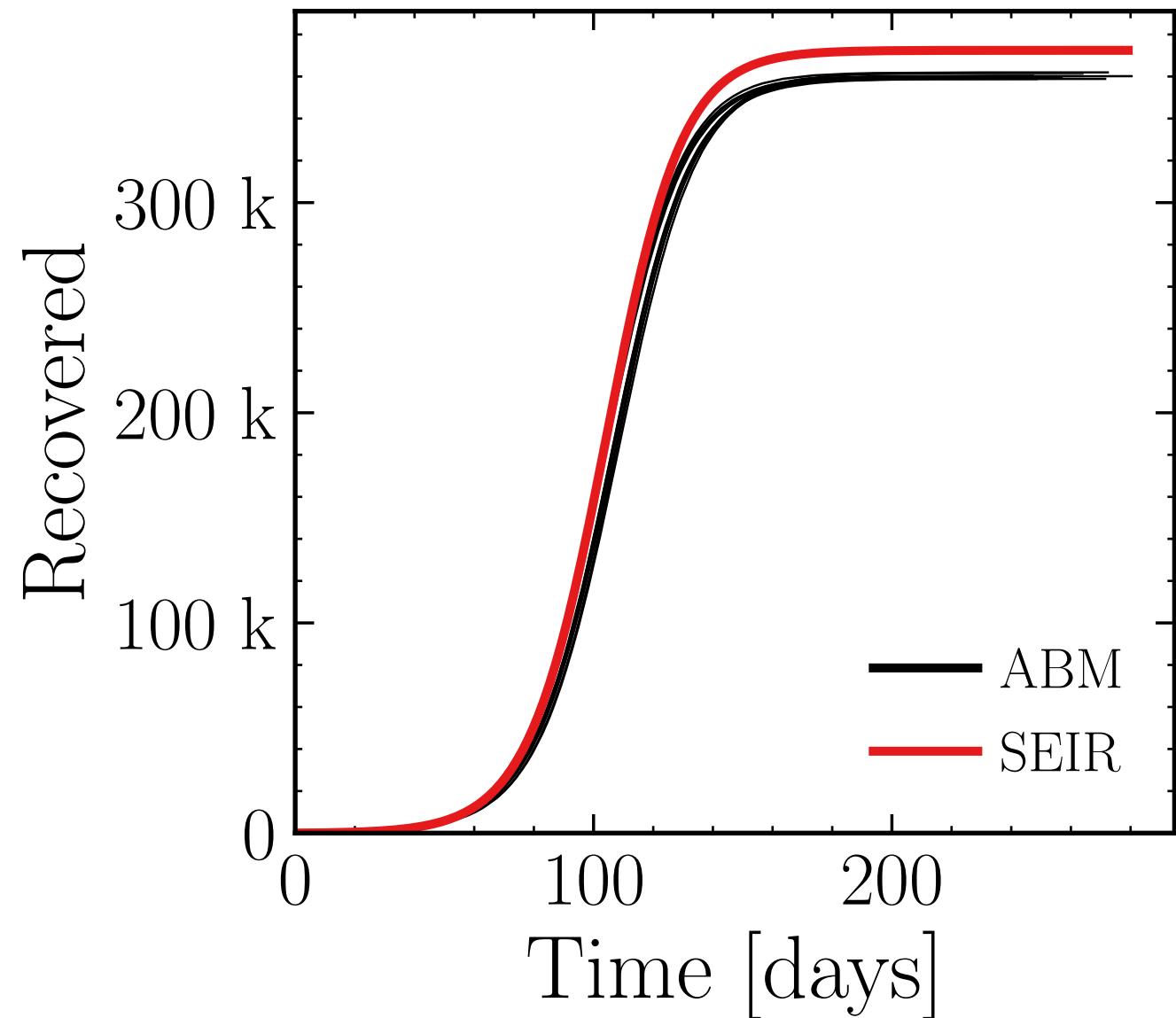
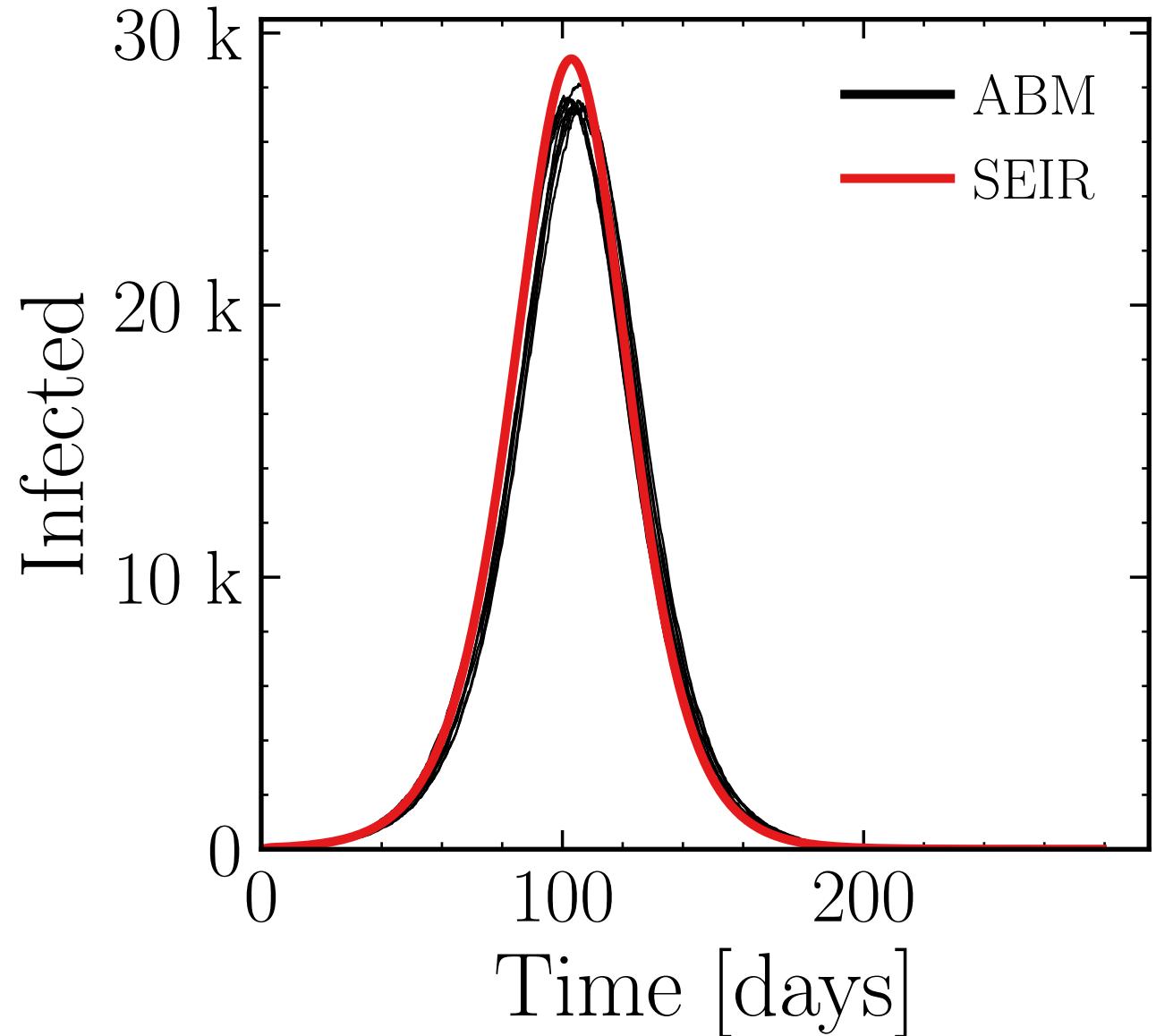
$$R_\infty^{\text{ABM}} = (360.2 \pm 0.087\%) \cdot 10^3$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.9$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (27.56 \pm 0.27\%) \cdot 10^3$$

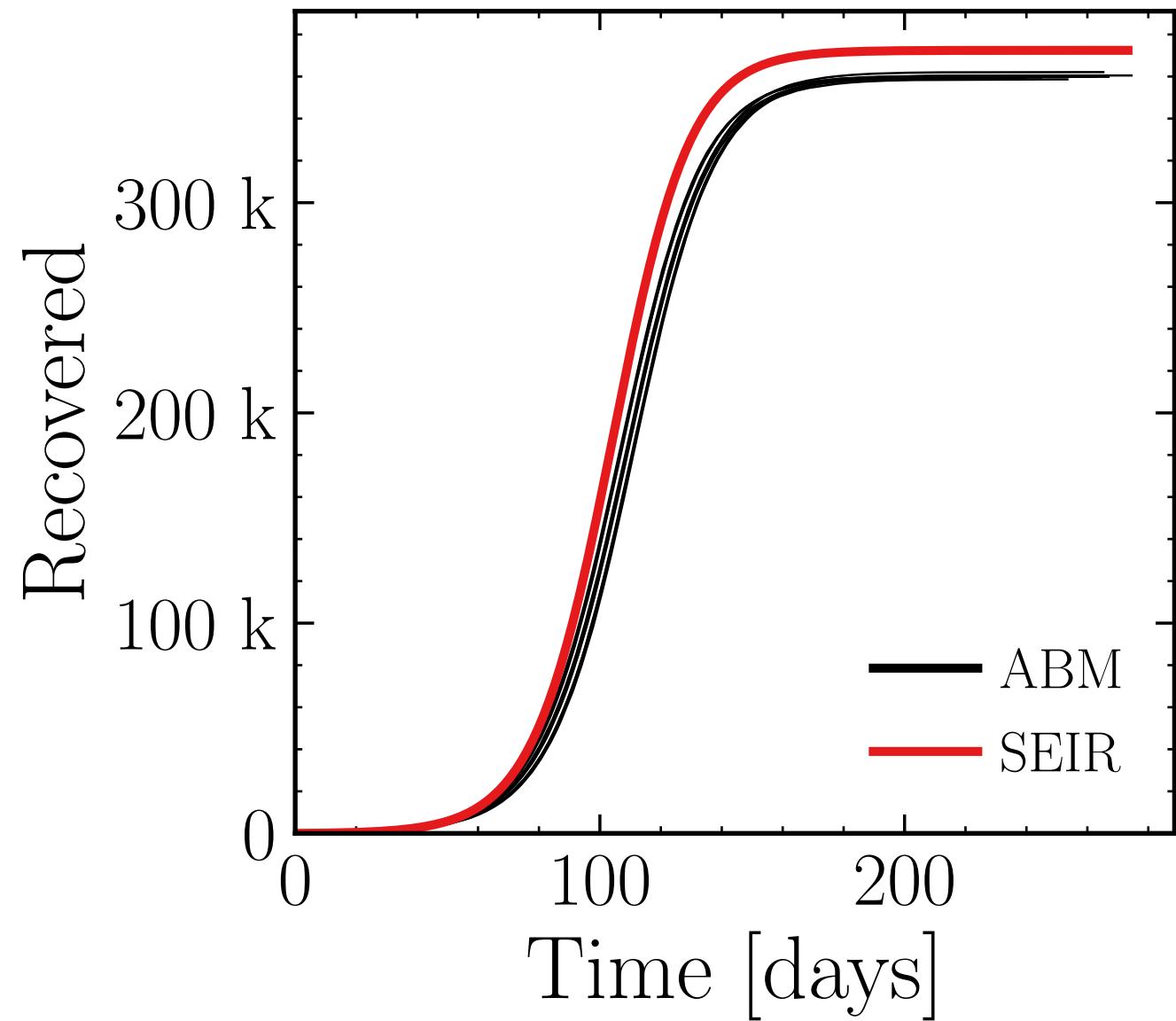
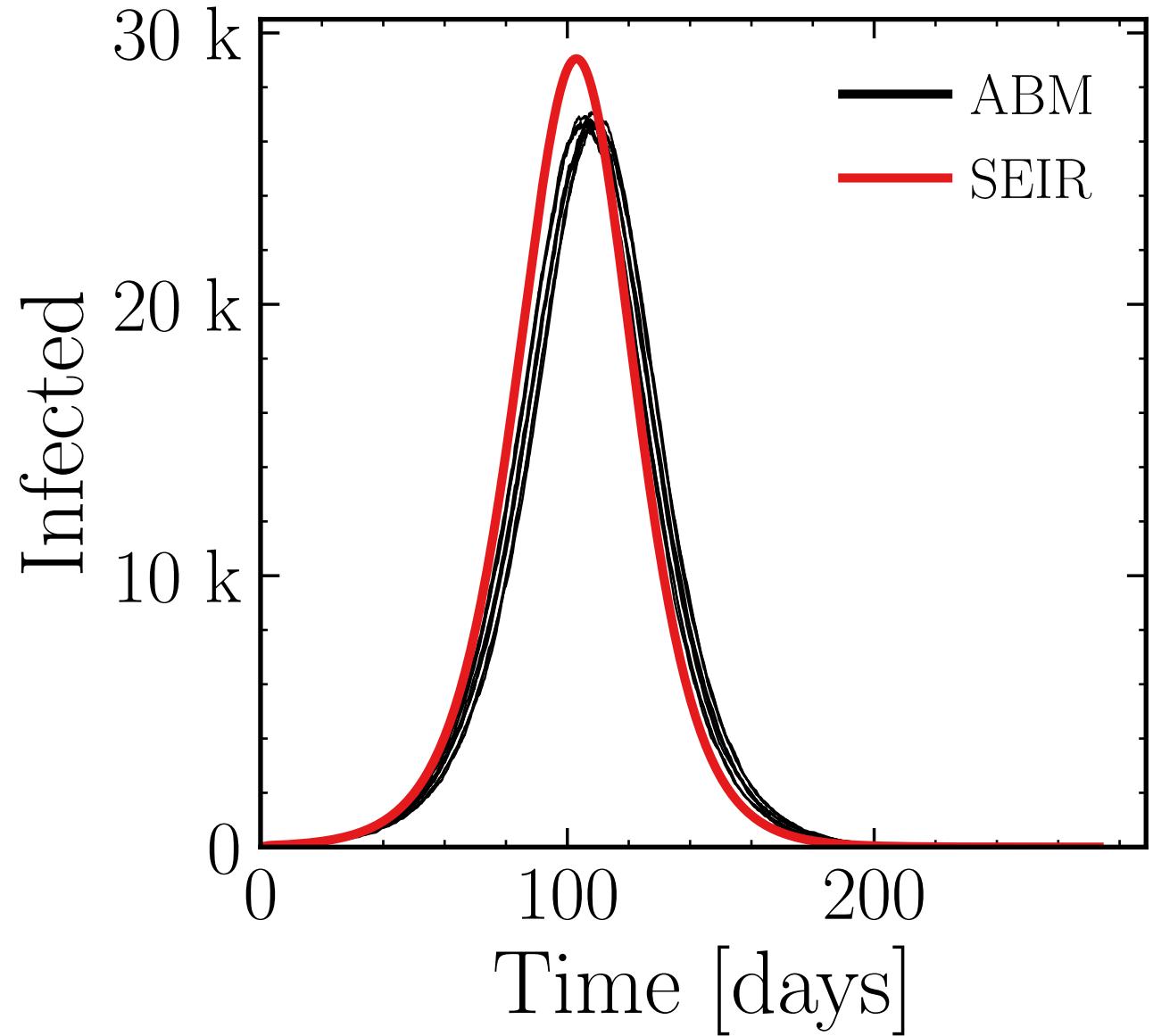
$$R_\infty^{\text{ABM}} = (360.2 \pm 0.085\%) \cdot 10^3$$



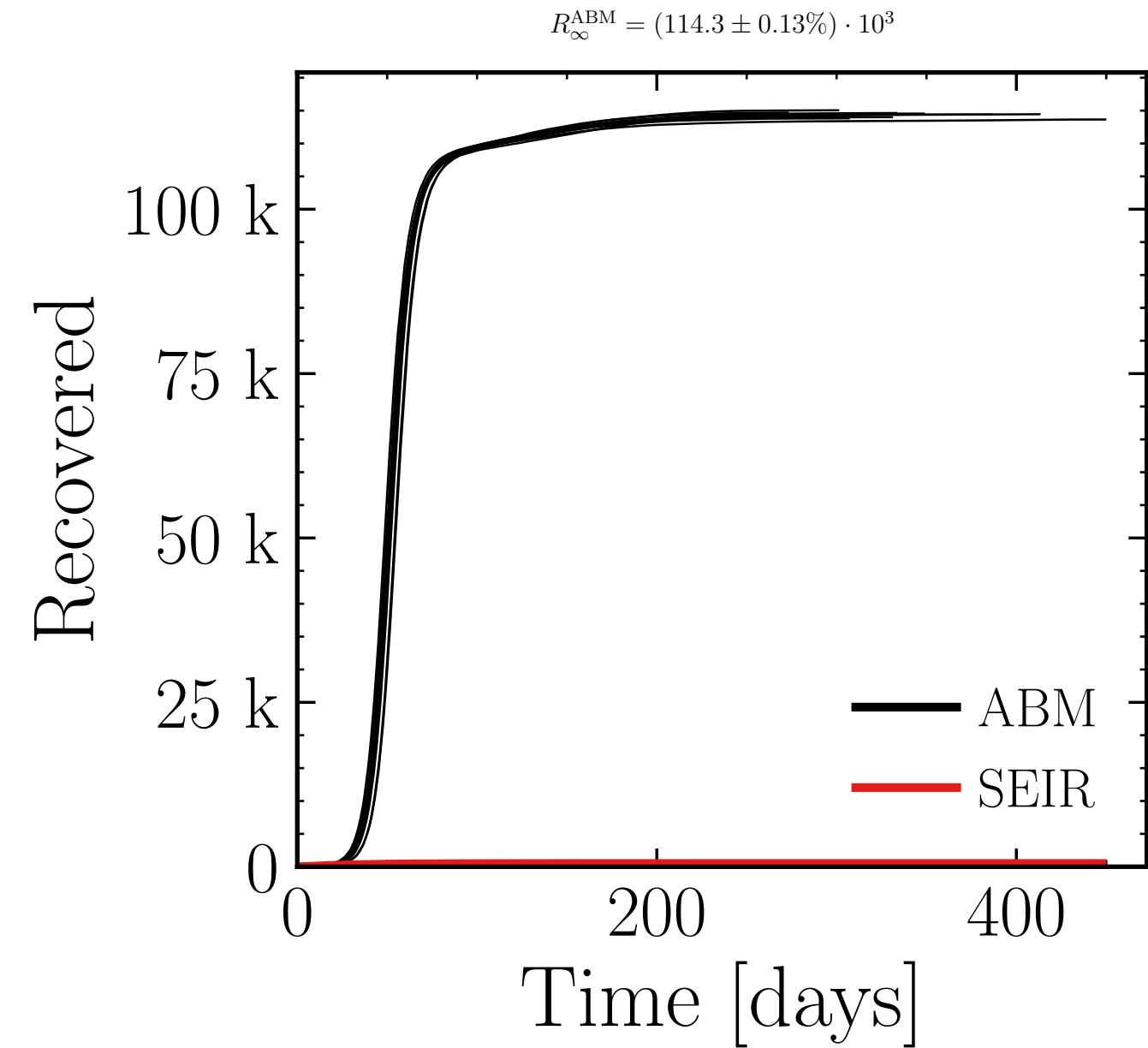
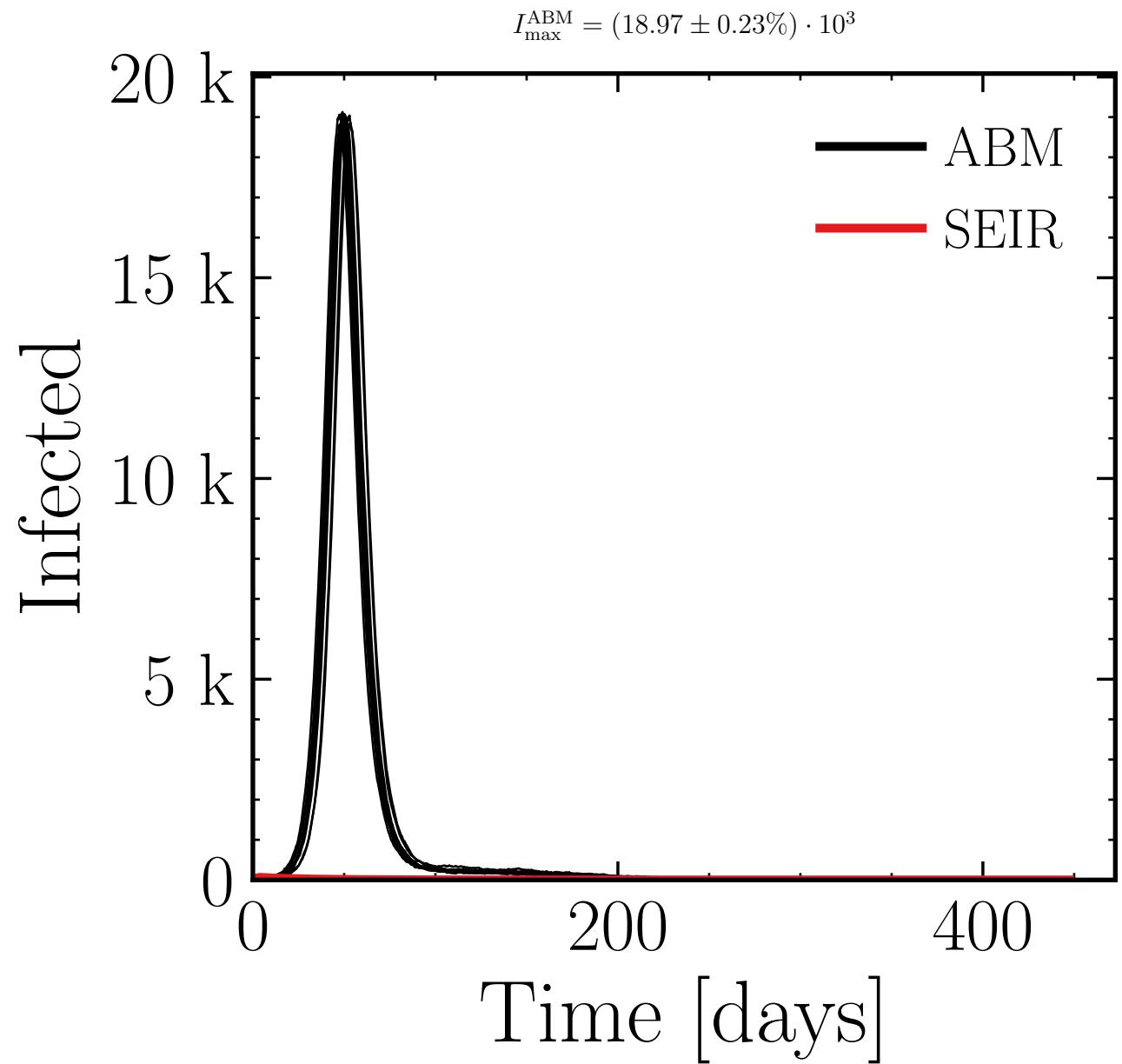
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 1.0$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (26.75 \pm 0.2\%) \cdot 10^3$$

$$R_{\infty}^{\text{ABM}} = (360.1 \pm 0.076\%) \cdot 10^3$$



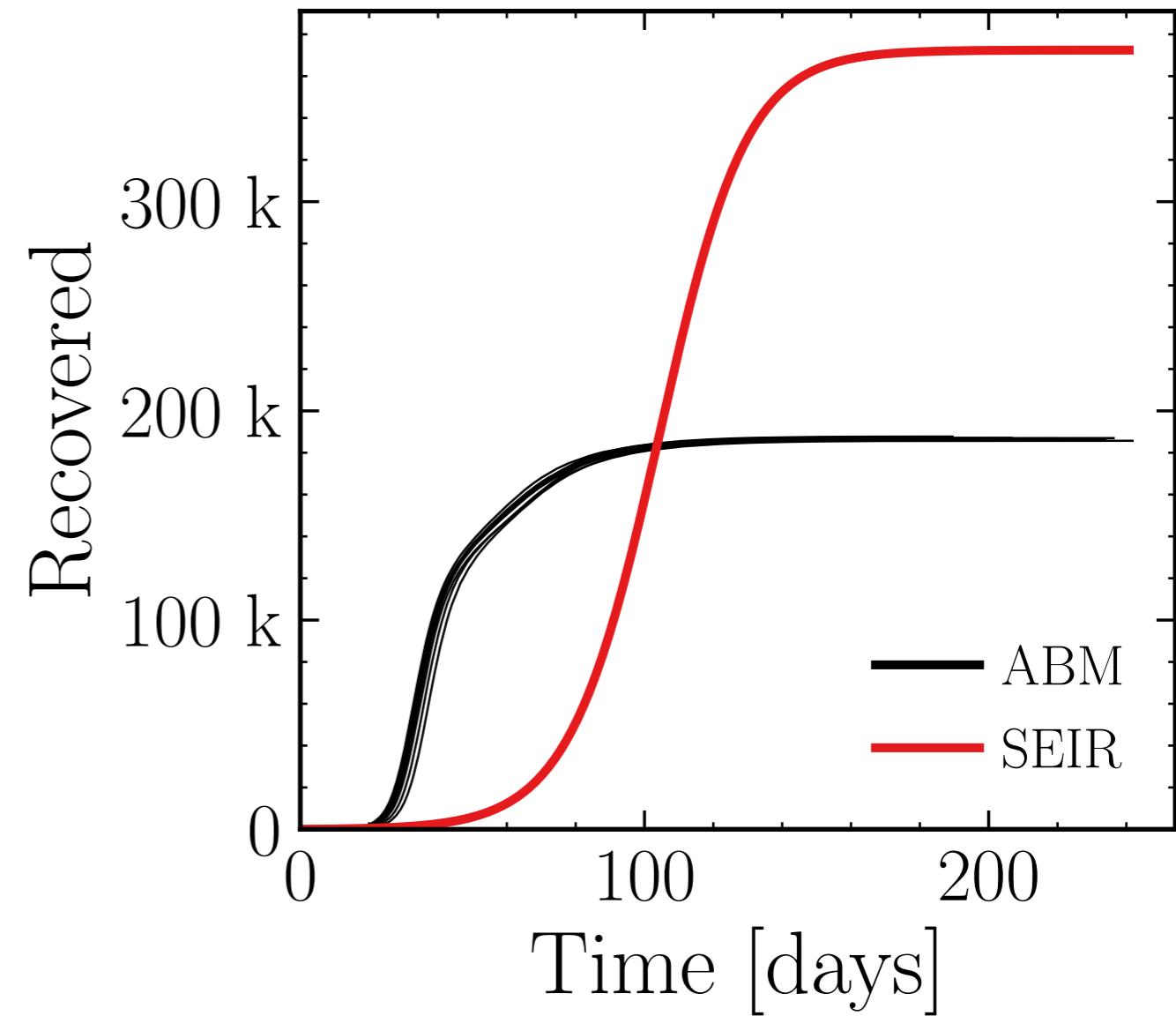
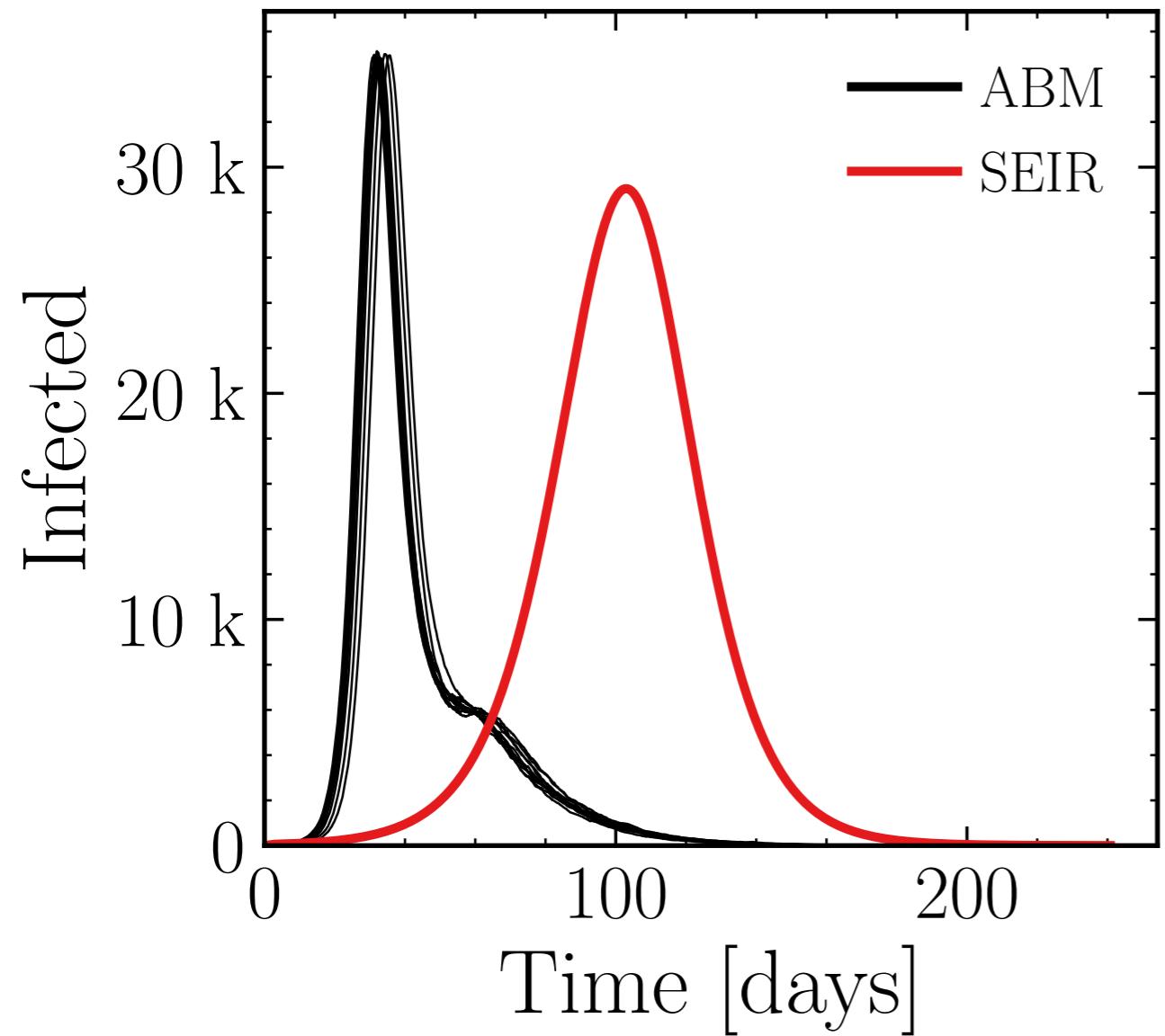
$N_{\text{tot}} = 580K$ ,  $\rho = 0.25$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.005$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10



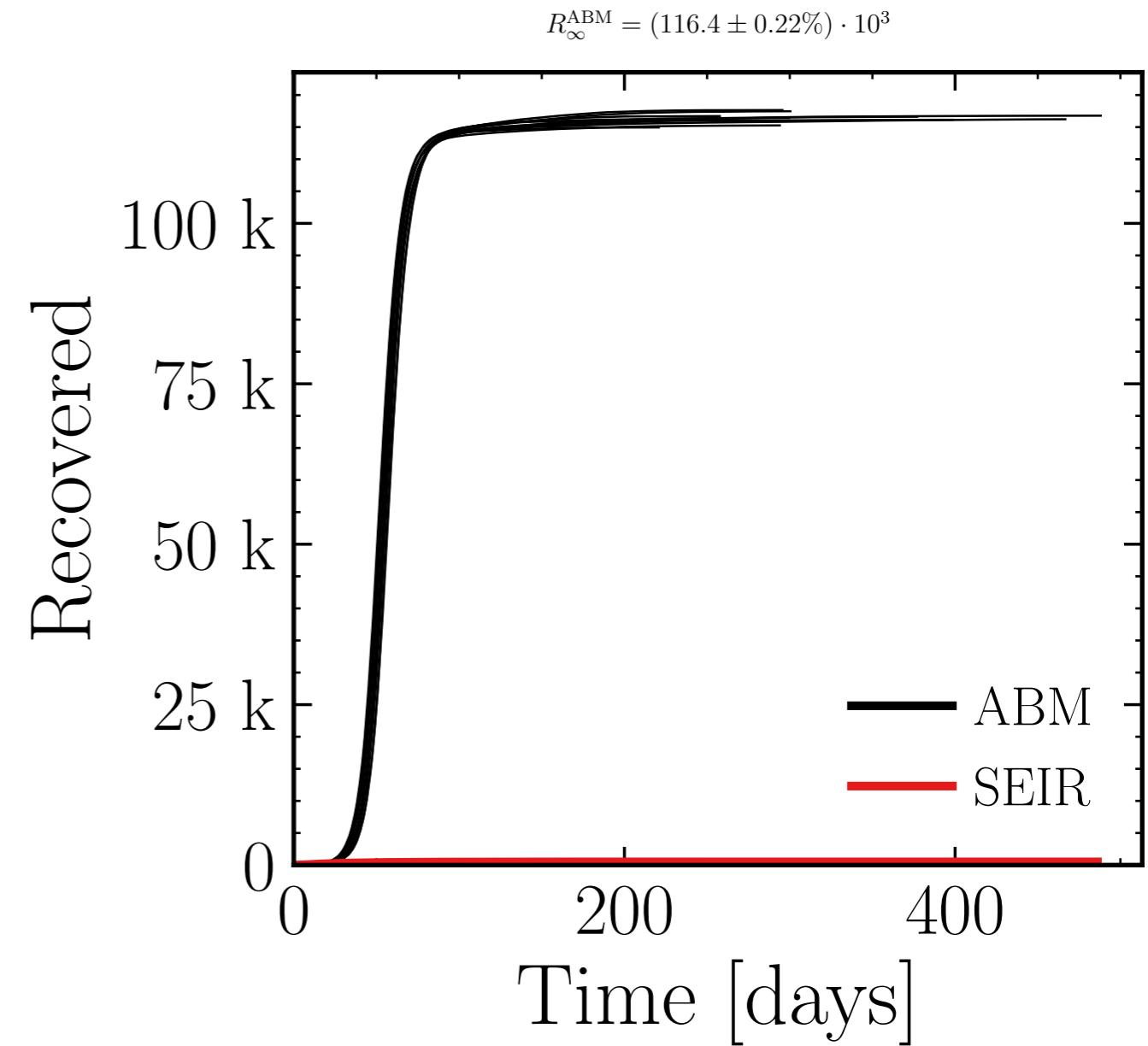
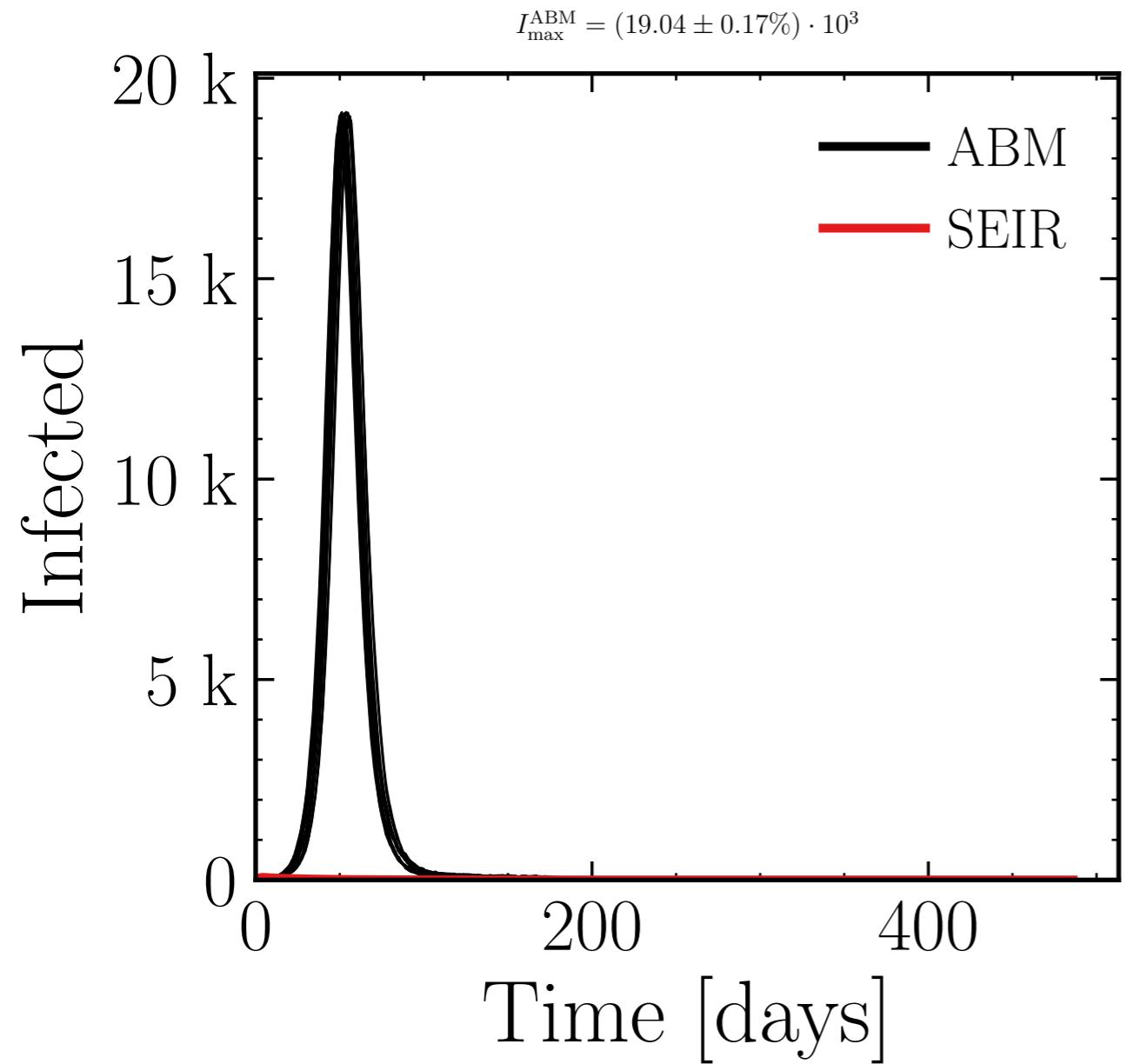
$N_{\text{tot}} = 580K$ ,  $\rho = 0.25$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (34.96 \pm 0.11\%) \cdot 10^3$$

$$R_\infty^{\text{ABM}} = (186.6 \pm 0.096\%) \cdot 10^3$$



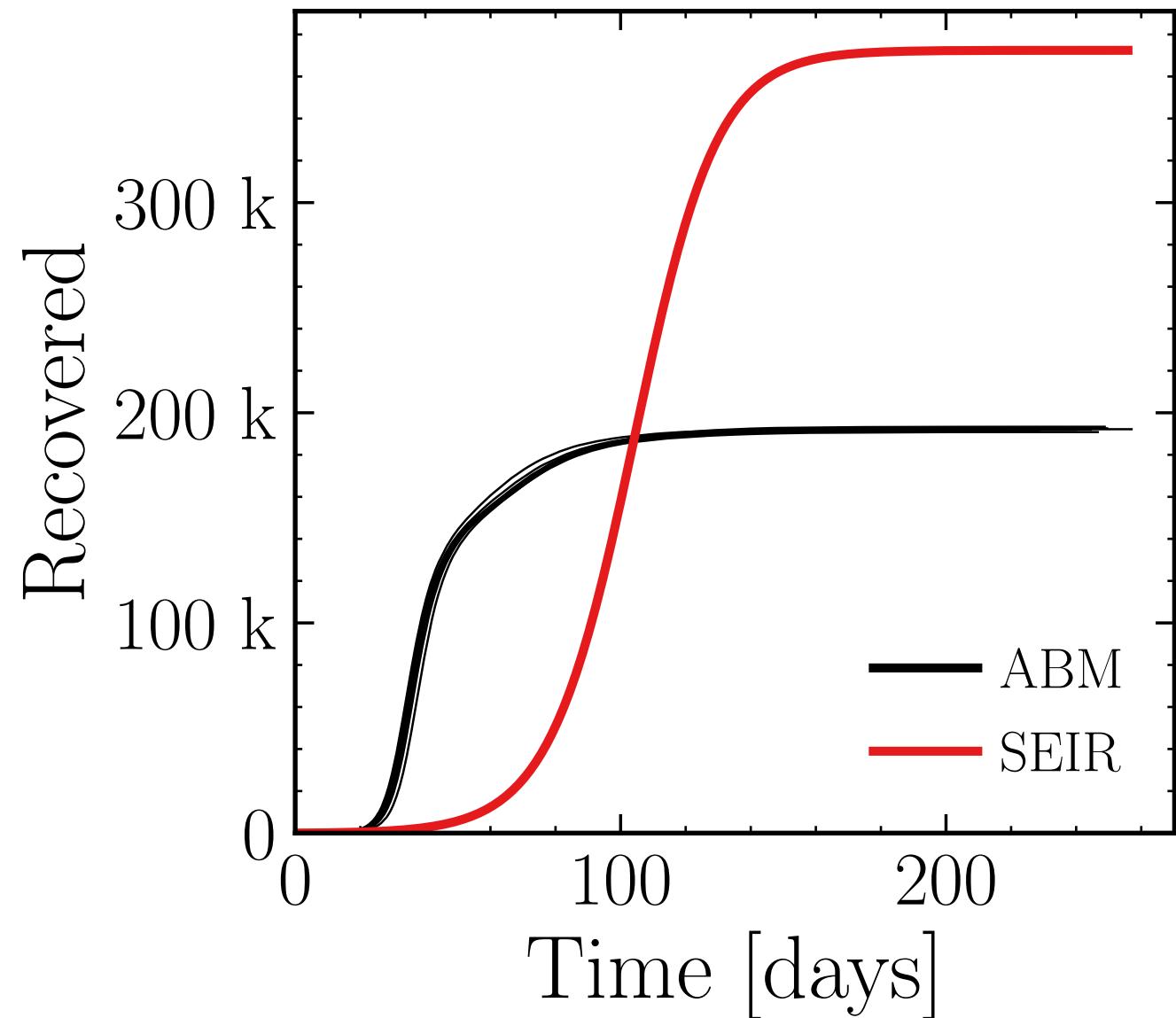
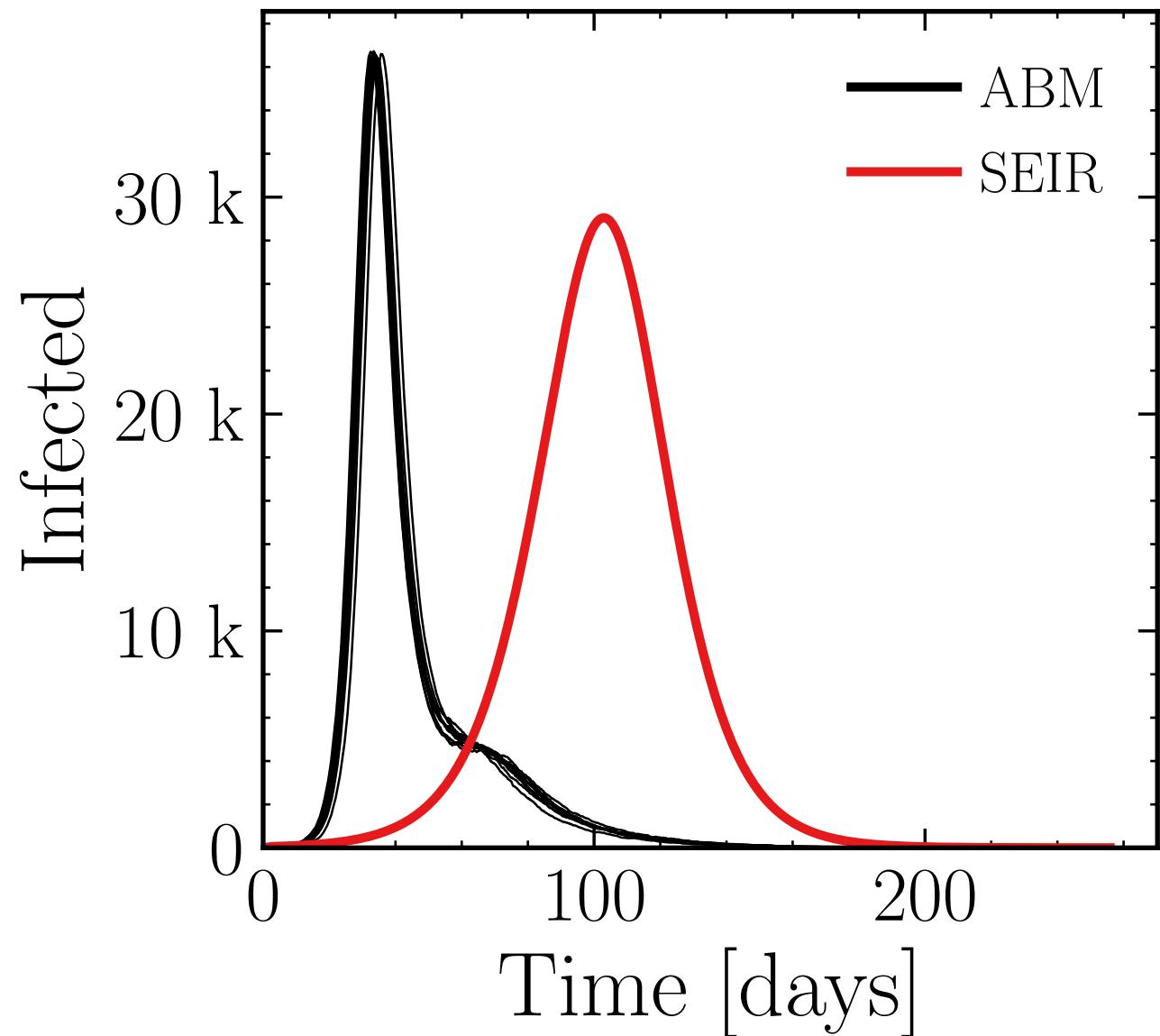
$N_{\text{tot}} = 580K$ ,  $\rho = 0.2$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.005$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10



$N_{\text{tot}} = 580K$ ,  $\rho = 0.2$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

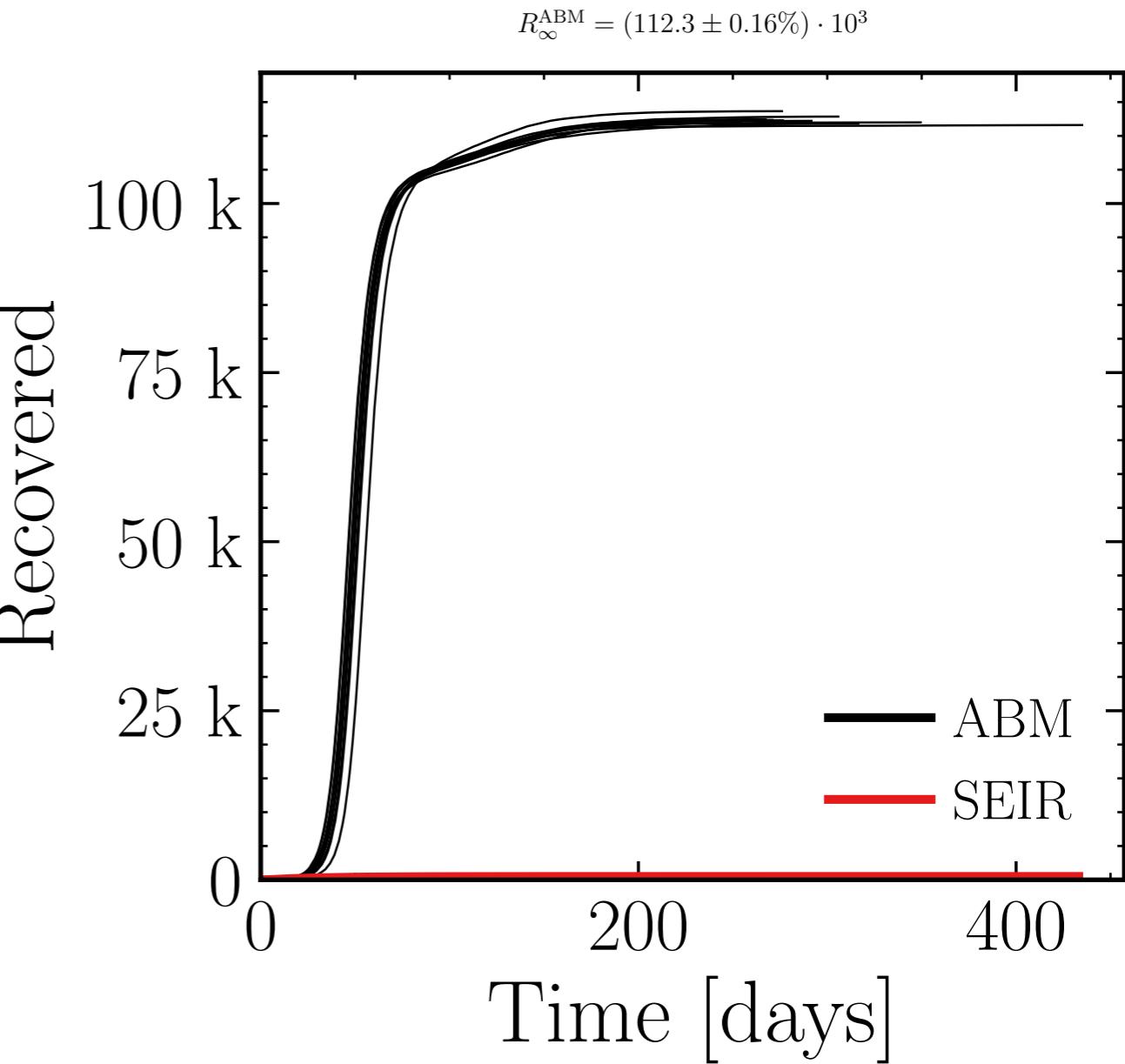
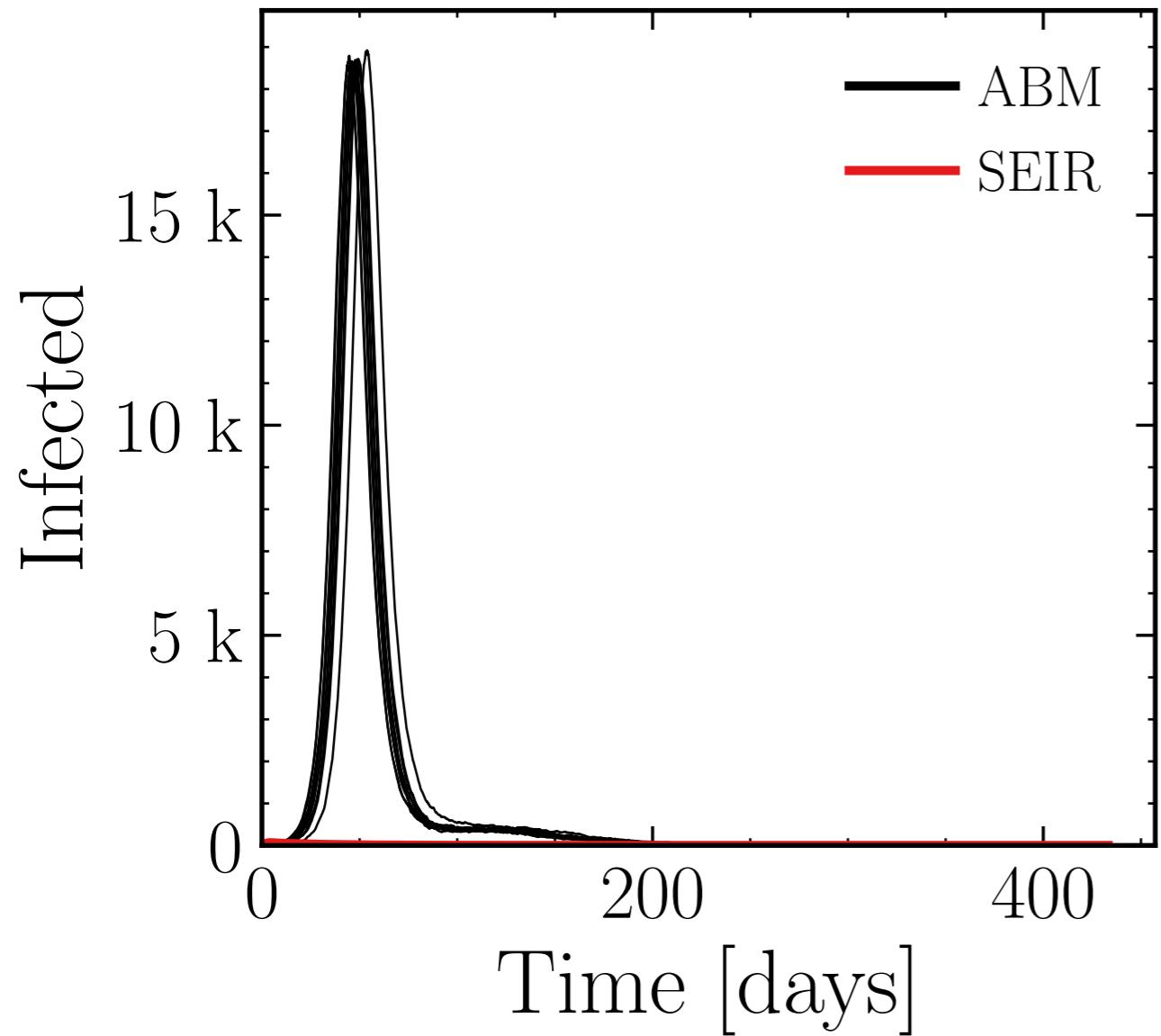
$$I_{\max}^{\text{ABM}} = (36.57 \pm 0.1\%) \cdot 10^3$$

$$R_\infty^{\text{ABM}} = (192 \pm 0.11\%) \cdot 10^3$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.3$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.005$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (18.7 \pm 0.16\%) \cdot 10^3$$

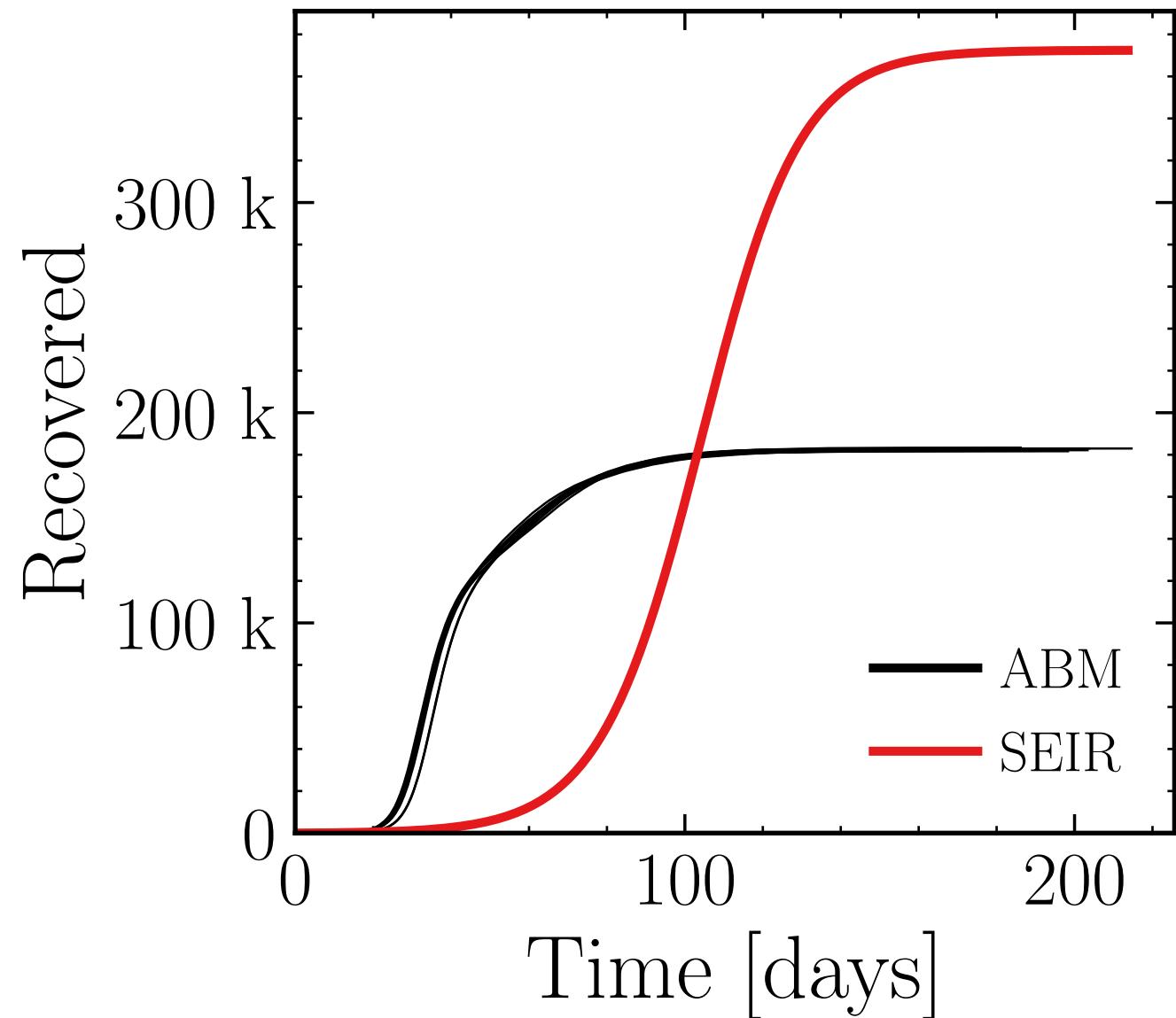
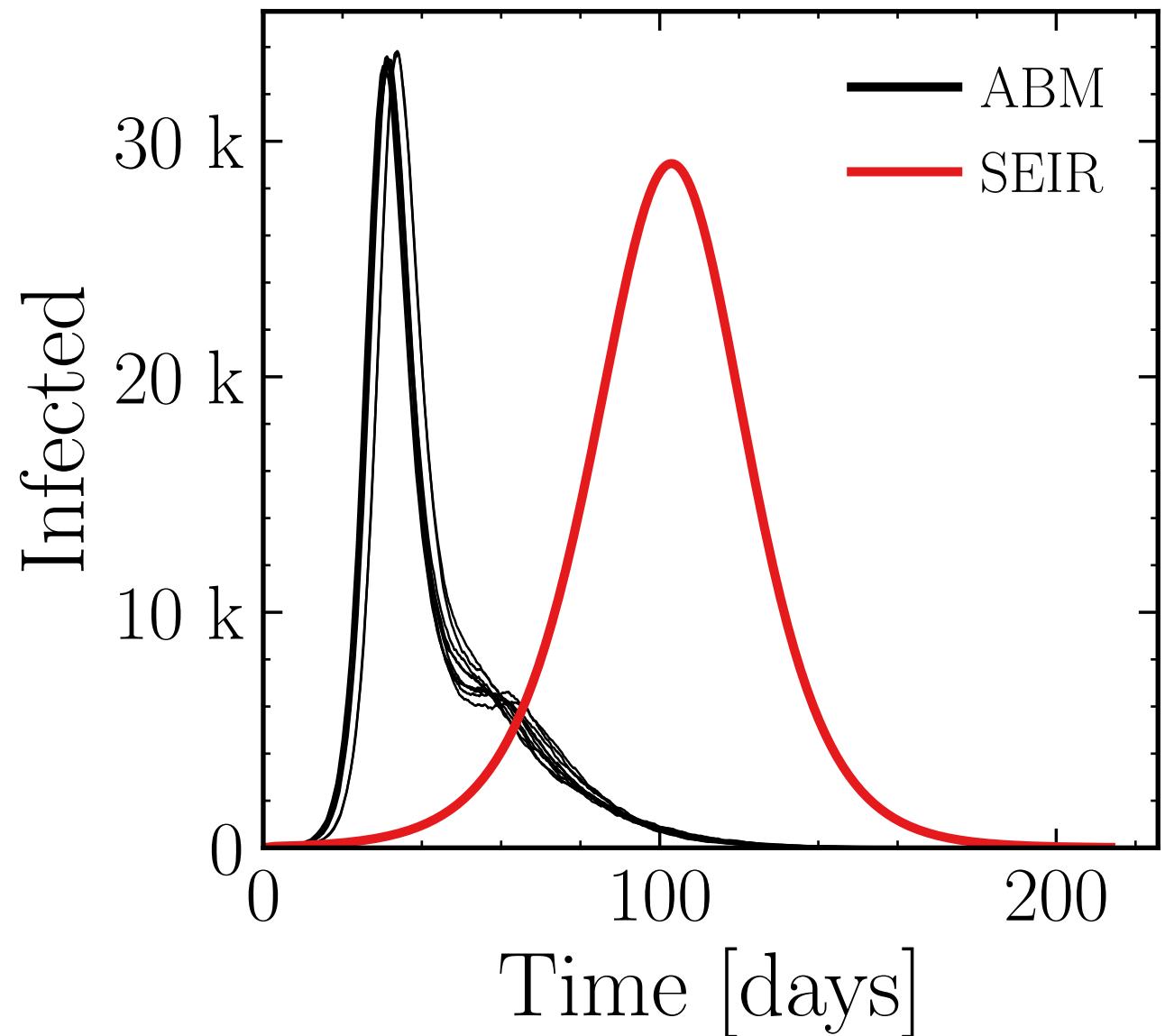


$$R_\infty^{\text{ABM}} = (112.3 \pm 0.16\%) \cdot 10^3$$

$N_{\text{tot}} = 580K$ ,  $\rho = 0.3$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

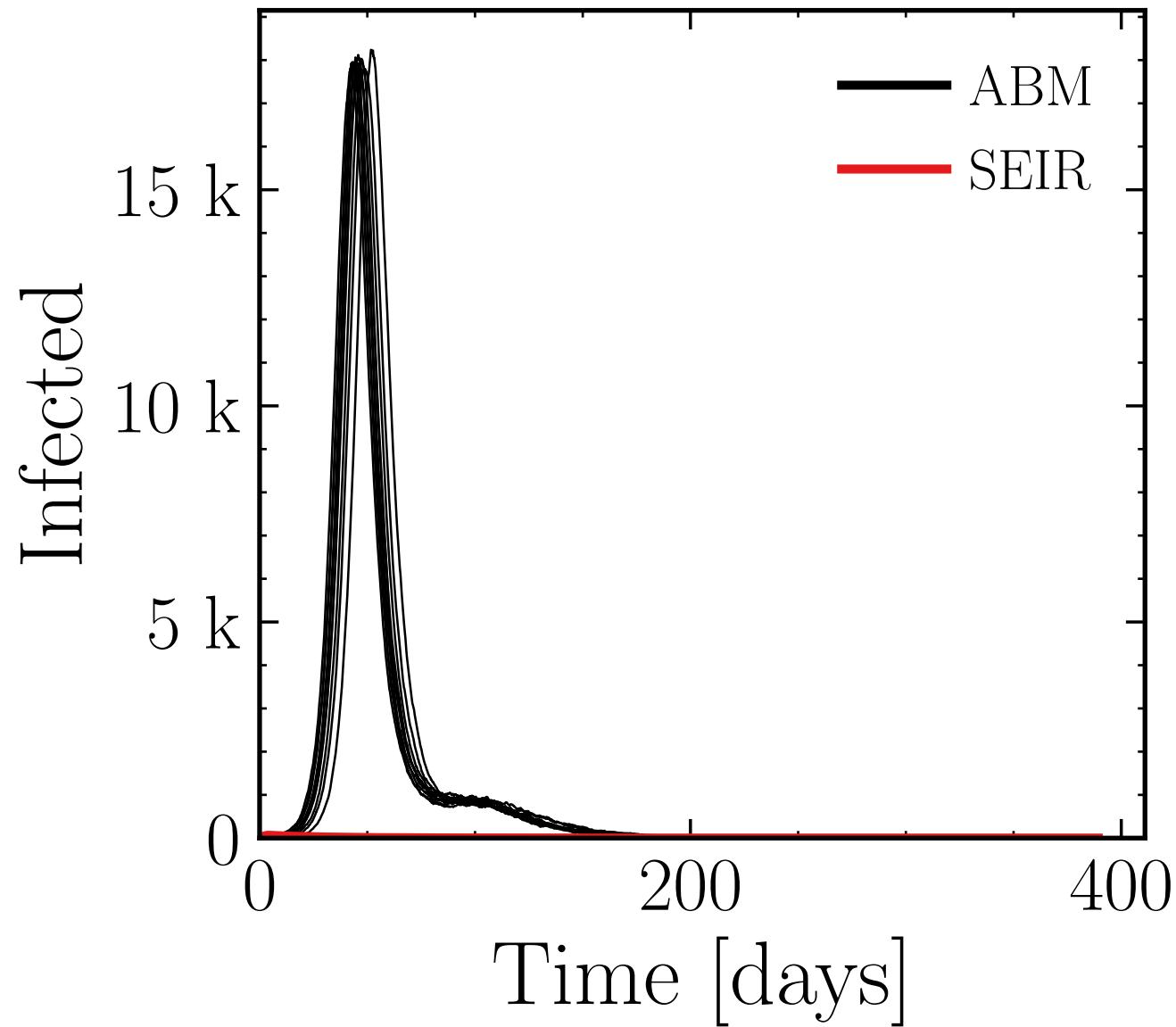
$$I_{\max}^{\text{ABM}} = (33.45 \pm 0.18\%) \cdot 10^3$$

$$R_\infty^{\text{ABM}} = (182.4 \pm 0.1\%) \cdot 10^3$$

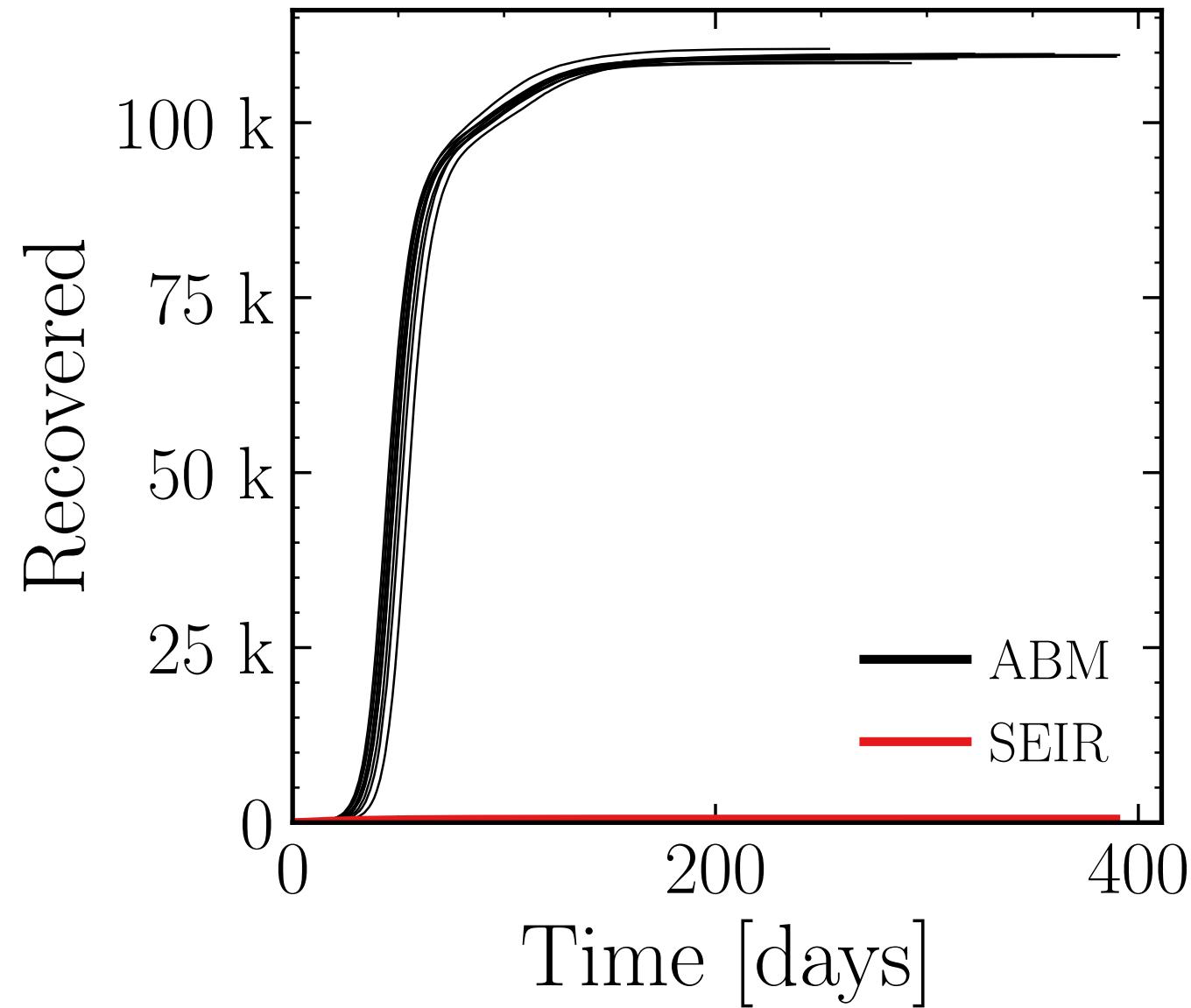


$N_{\text{tot}} = 580K$ ,  $\rho = 0.4$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.005$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (17.99 \pm 0.22\%) \cdot 10^3$$



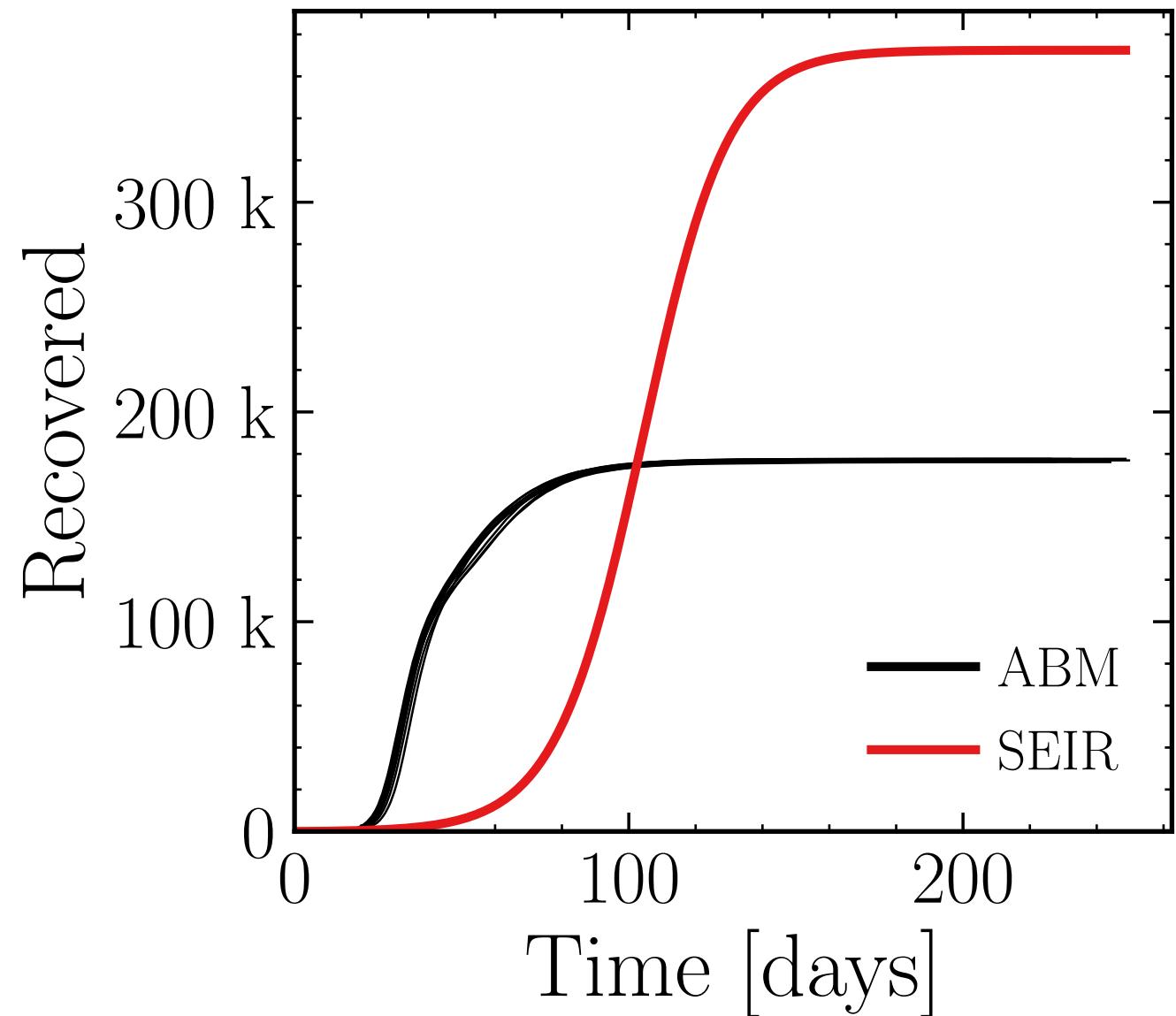
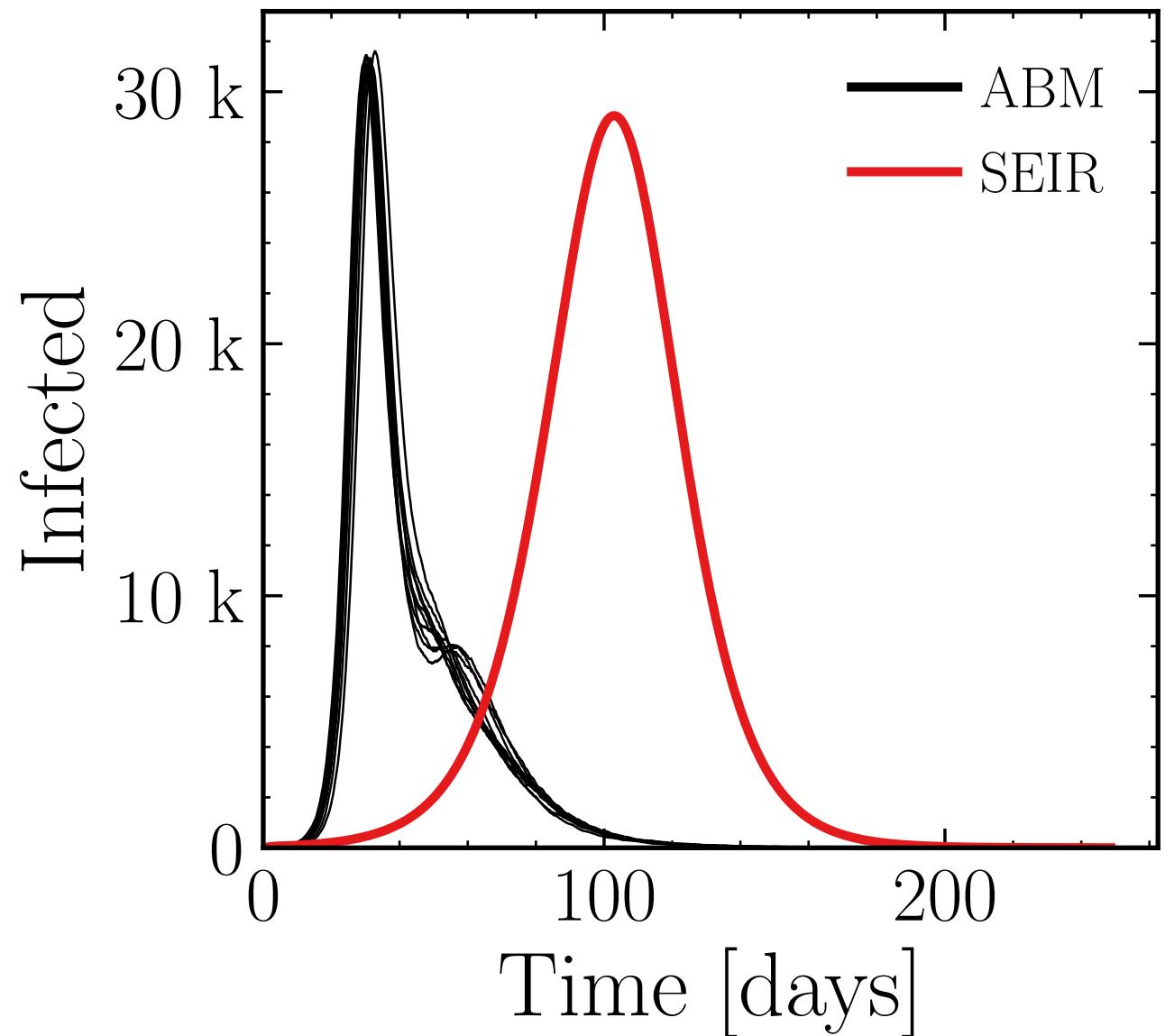
$$R_\infty^{\text{ABM}} = (109.4 \pm 0.17\%) \cdot 10^3$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.4$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (31.16 \pm 0.27\%) \cdot 10^3$$

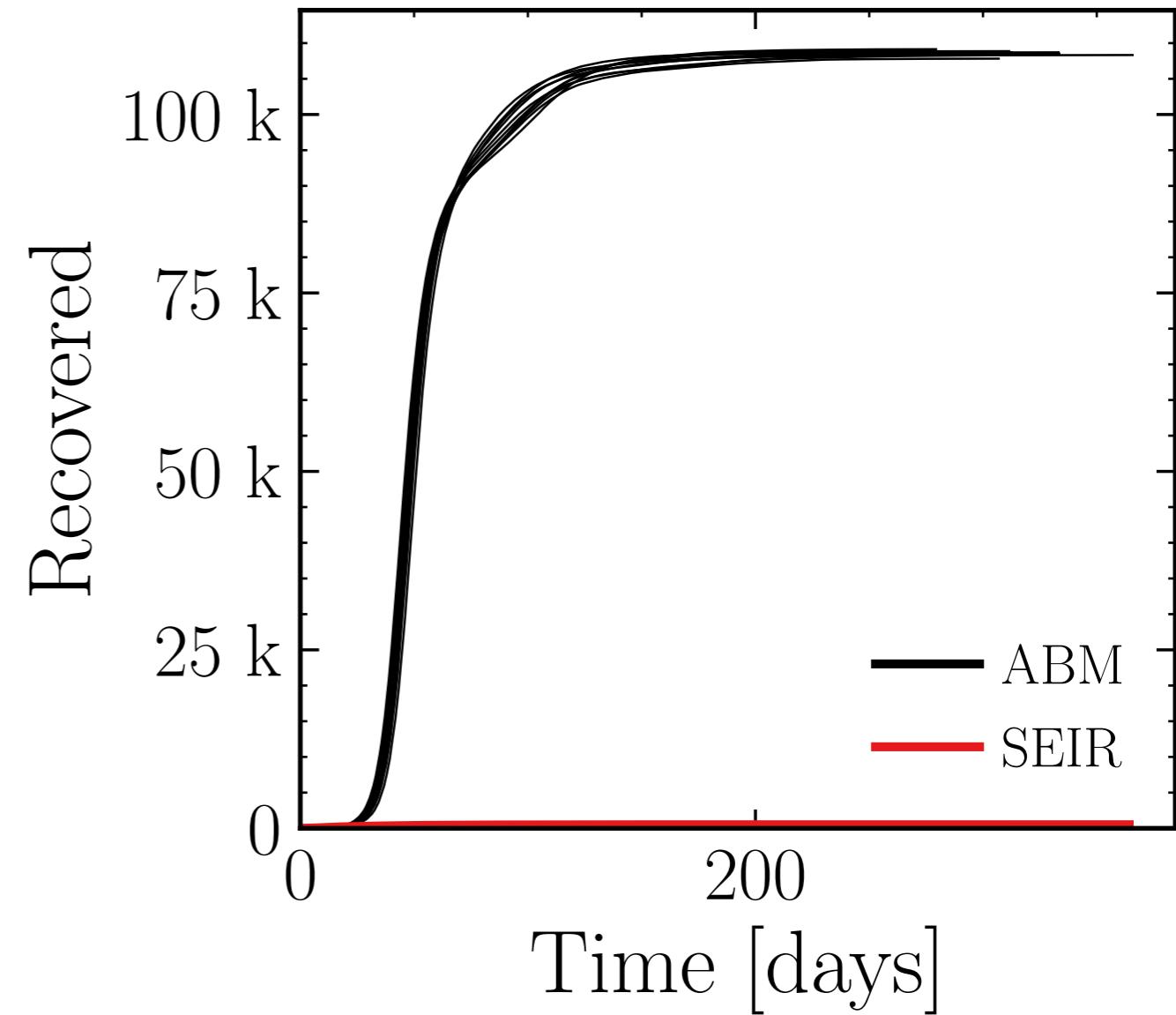
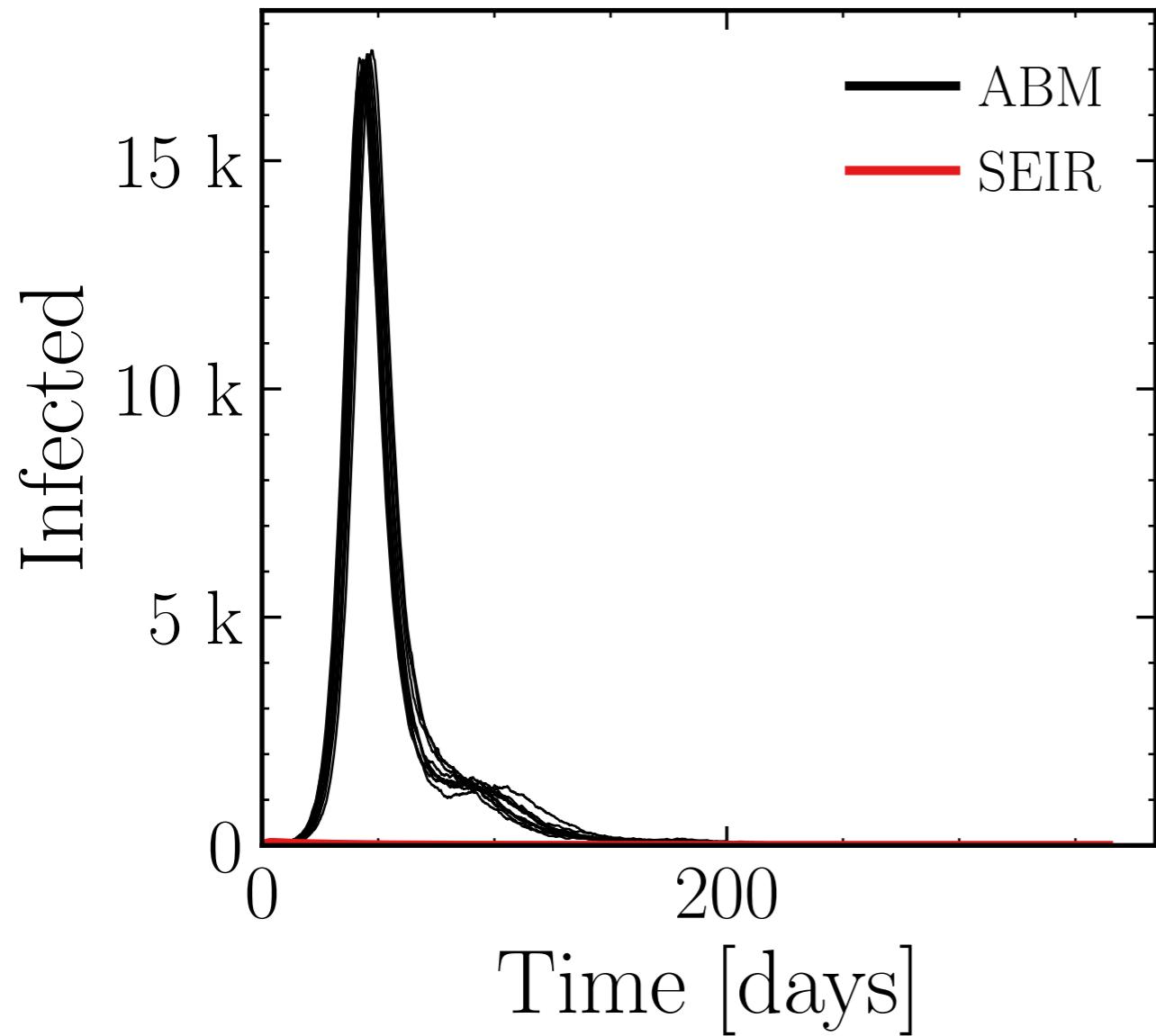
$$R_\infty^{\text{ABM}} = (177.1 \pm 0.092\%) \cdot 10^3$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.5$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.005$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (17.19 \pm 0.28\%) \cdot 10^3$$

$$R_\infty^{\text{ABM}} = (108.6 \pm 0.1\%) \cdot 10^3$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.5$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{ABM}} = (29.22 \pm 0.34\%) \cdot 10^3$$

$$R_\infty^{\text{ABM}} = (175.2 \pm 0.12\%) \cdot 10^3$$

