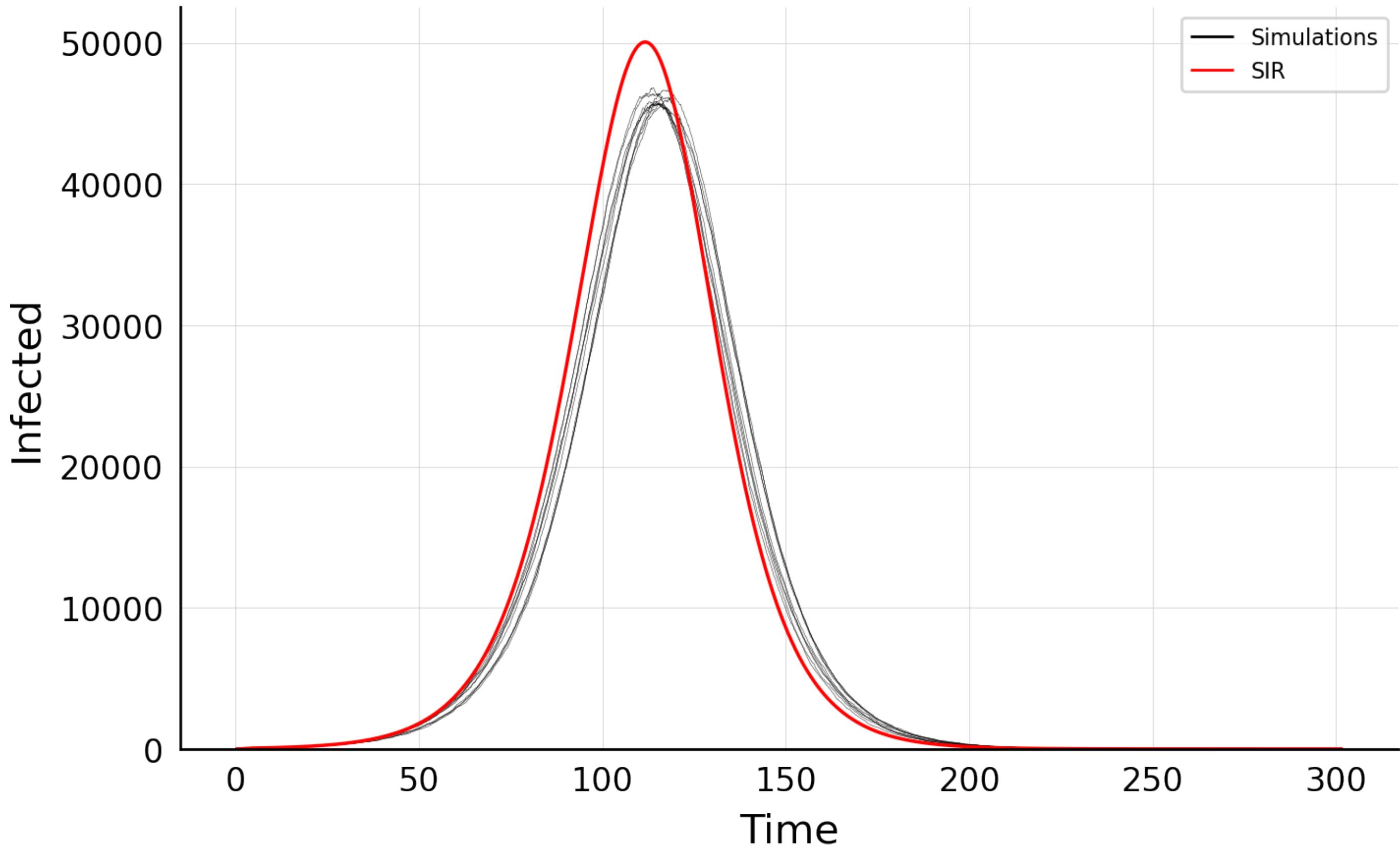
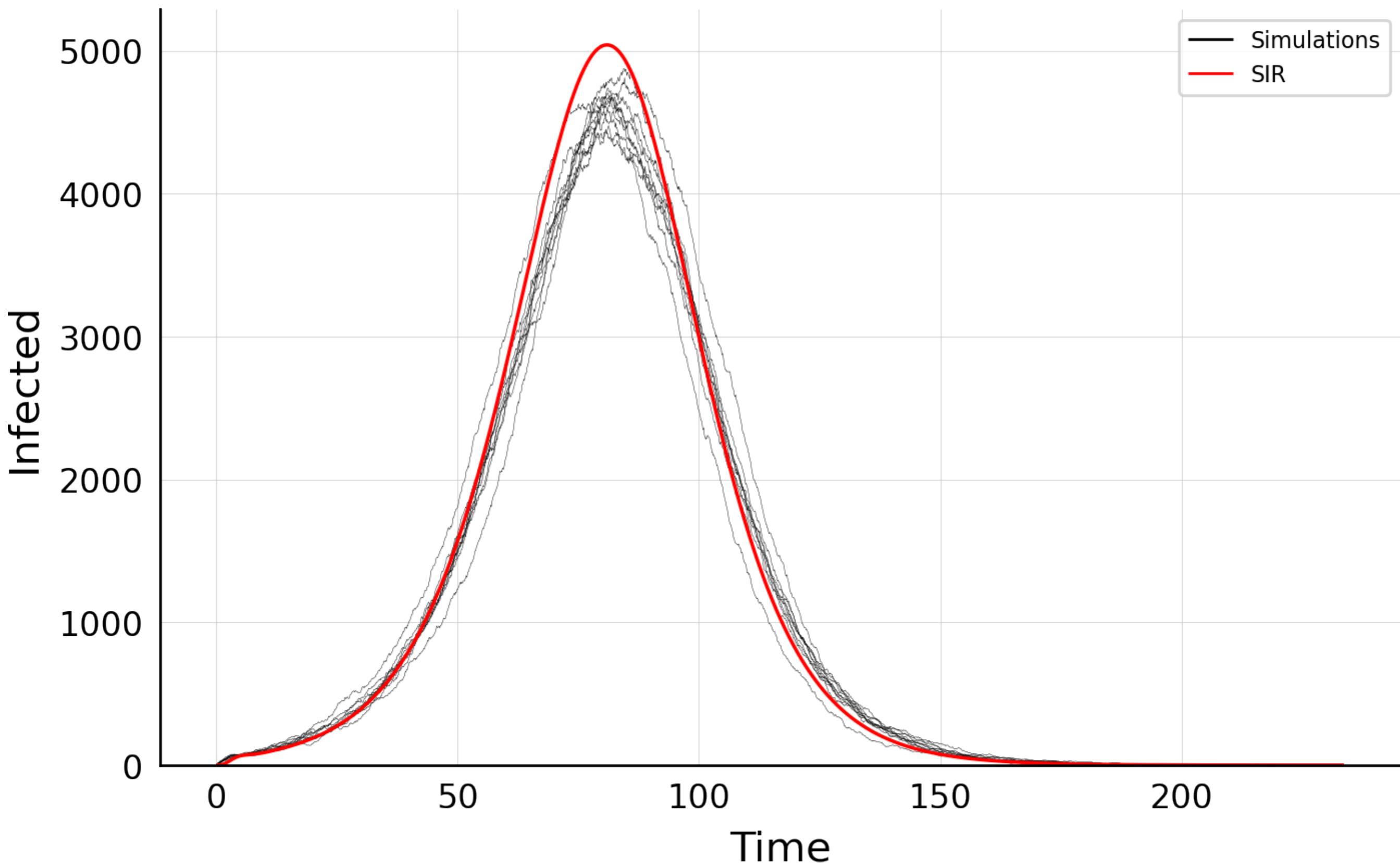


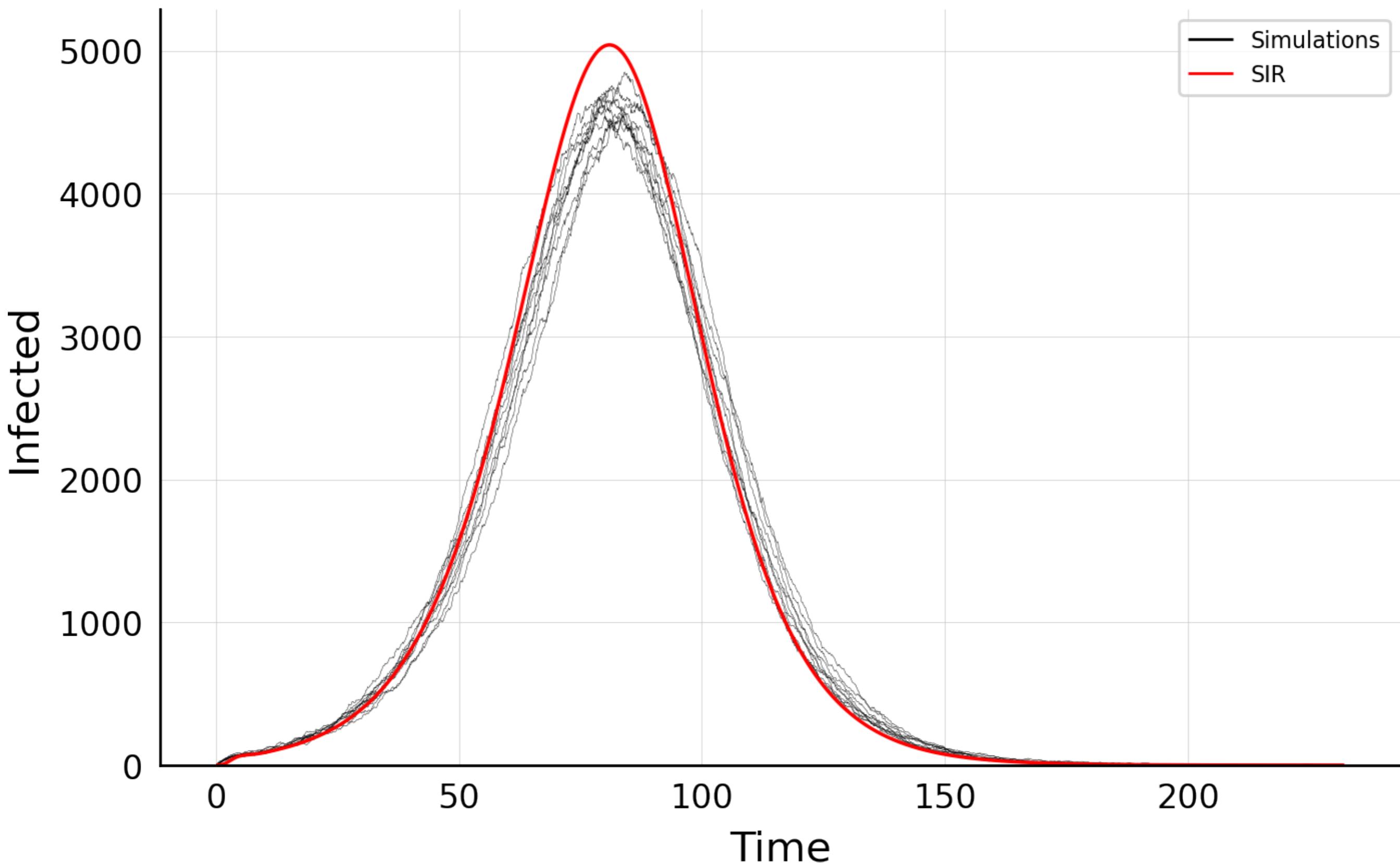
$N_{\text{tot}} = 1M$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



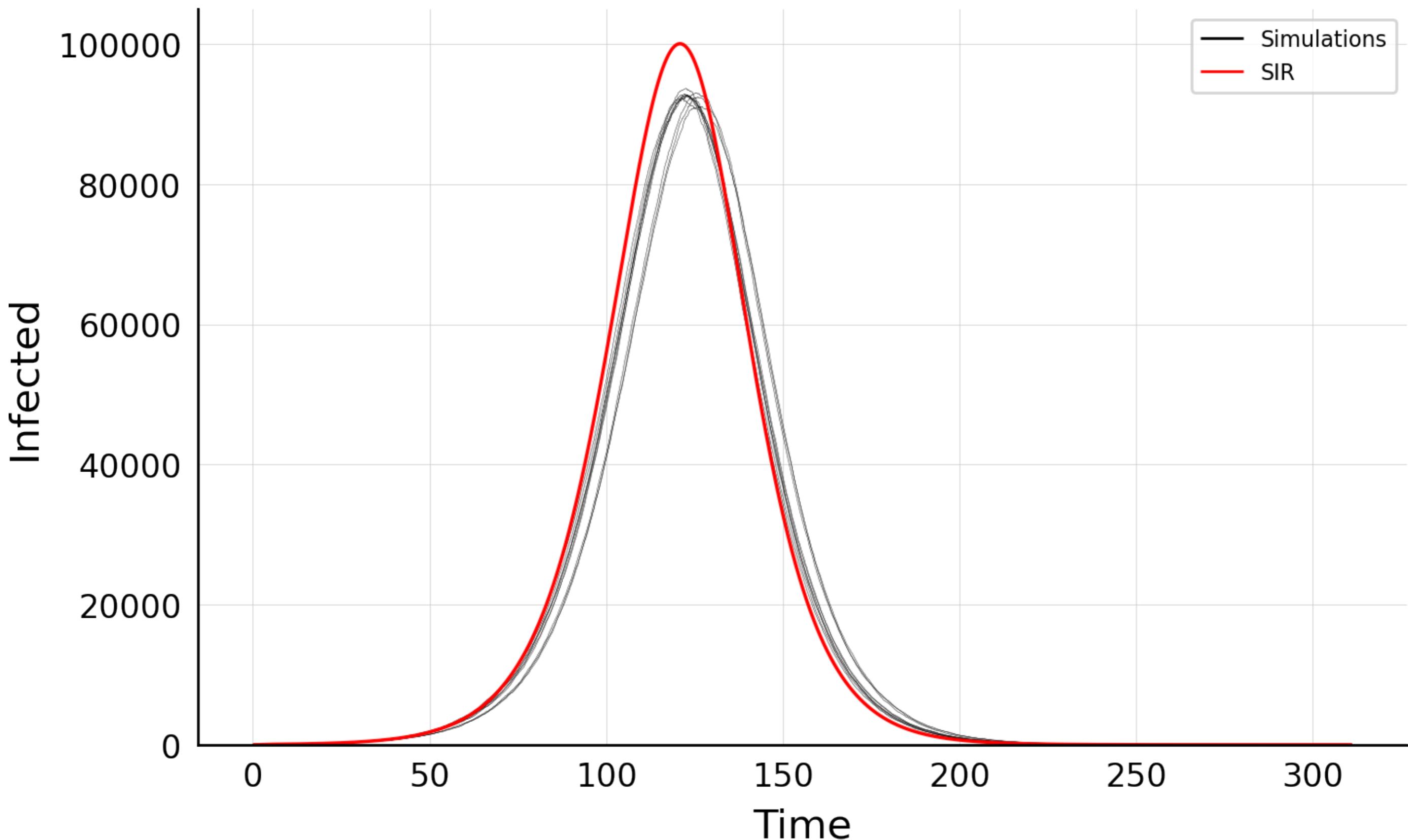
$N_{\text{tot}} = 100K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 1$ ,  $\#10$



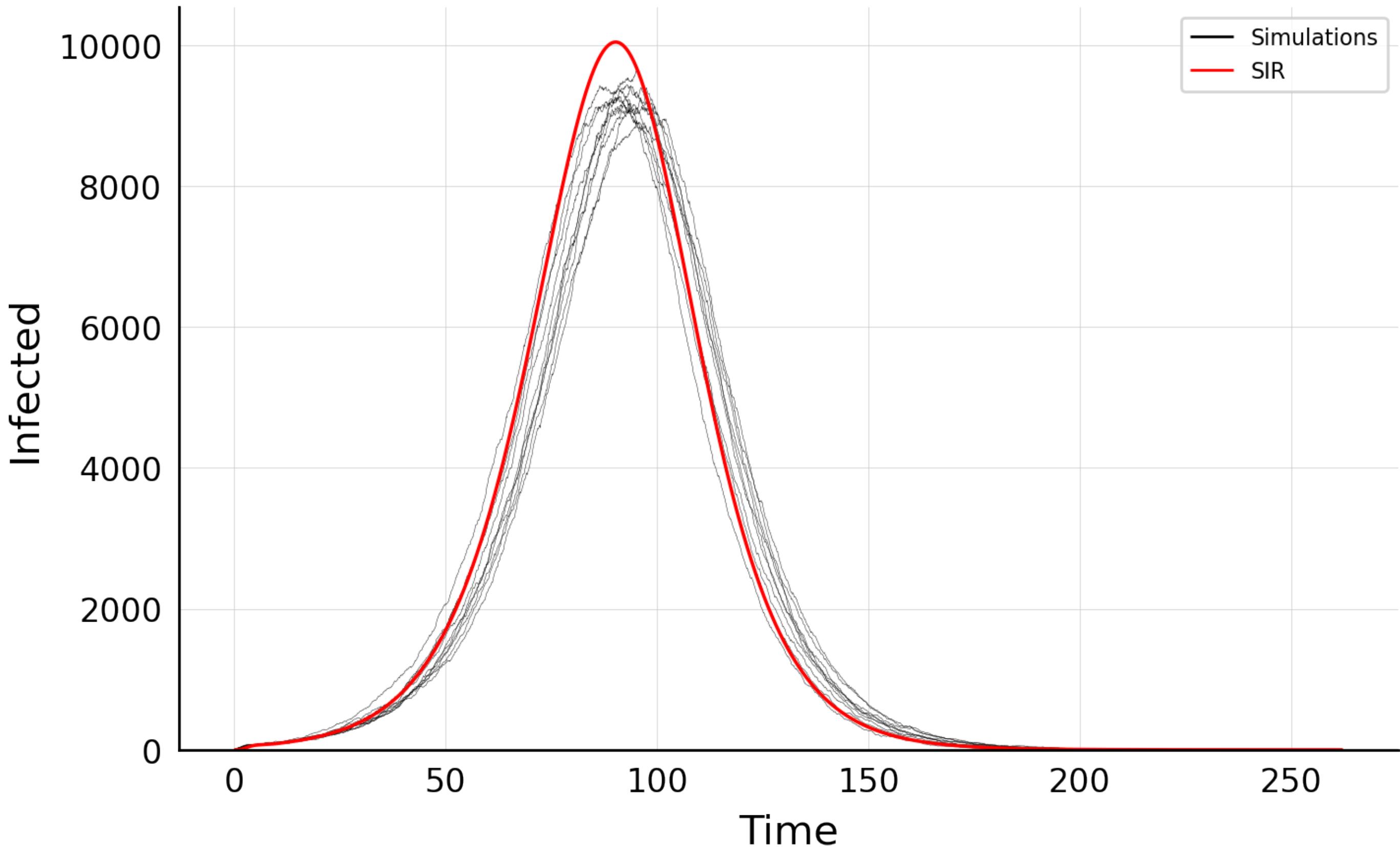
$N_{\text{tot}} = 100K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



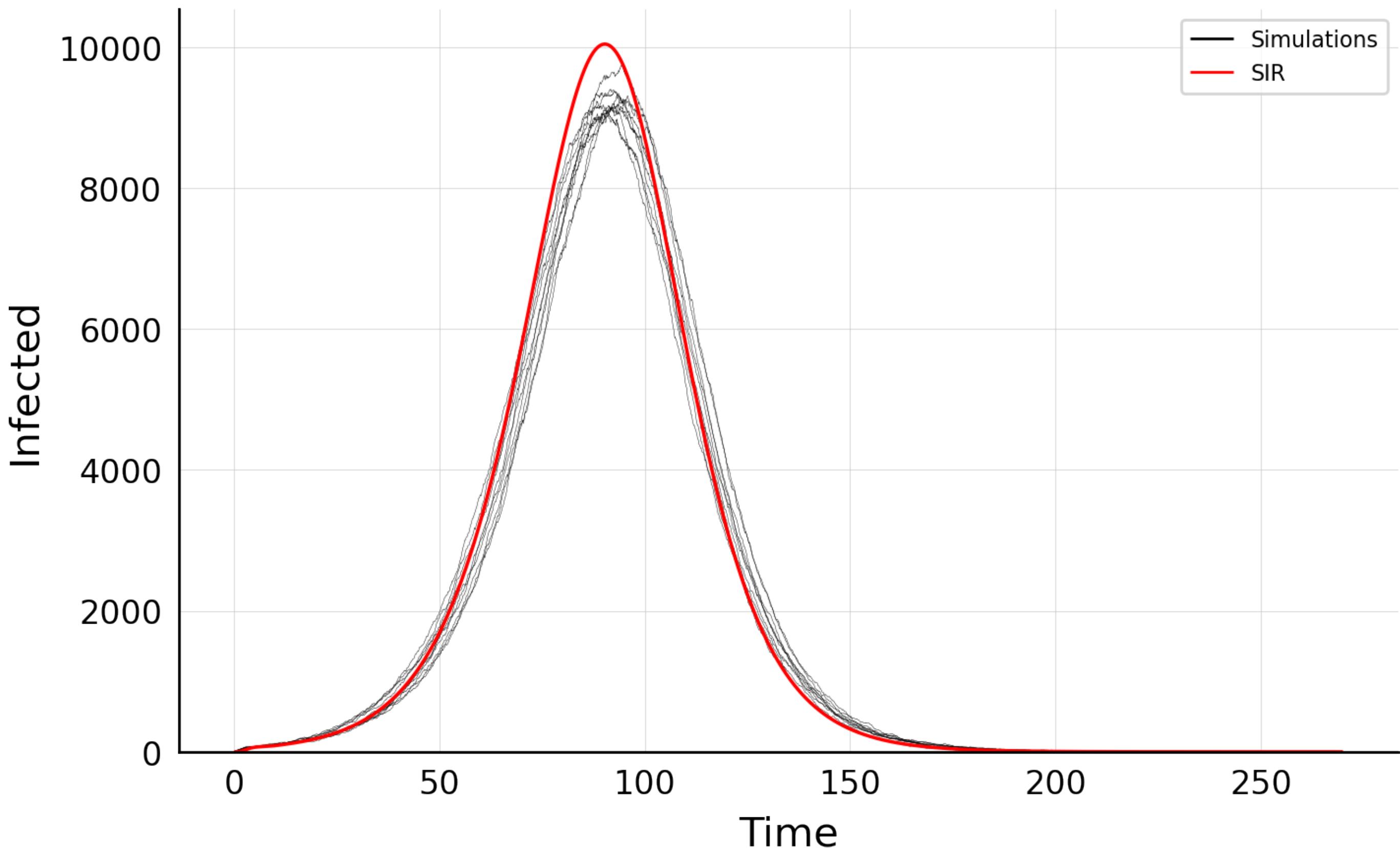
$N_{\text{tot}} = 2M$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



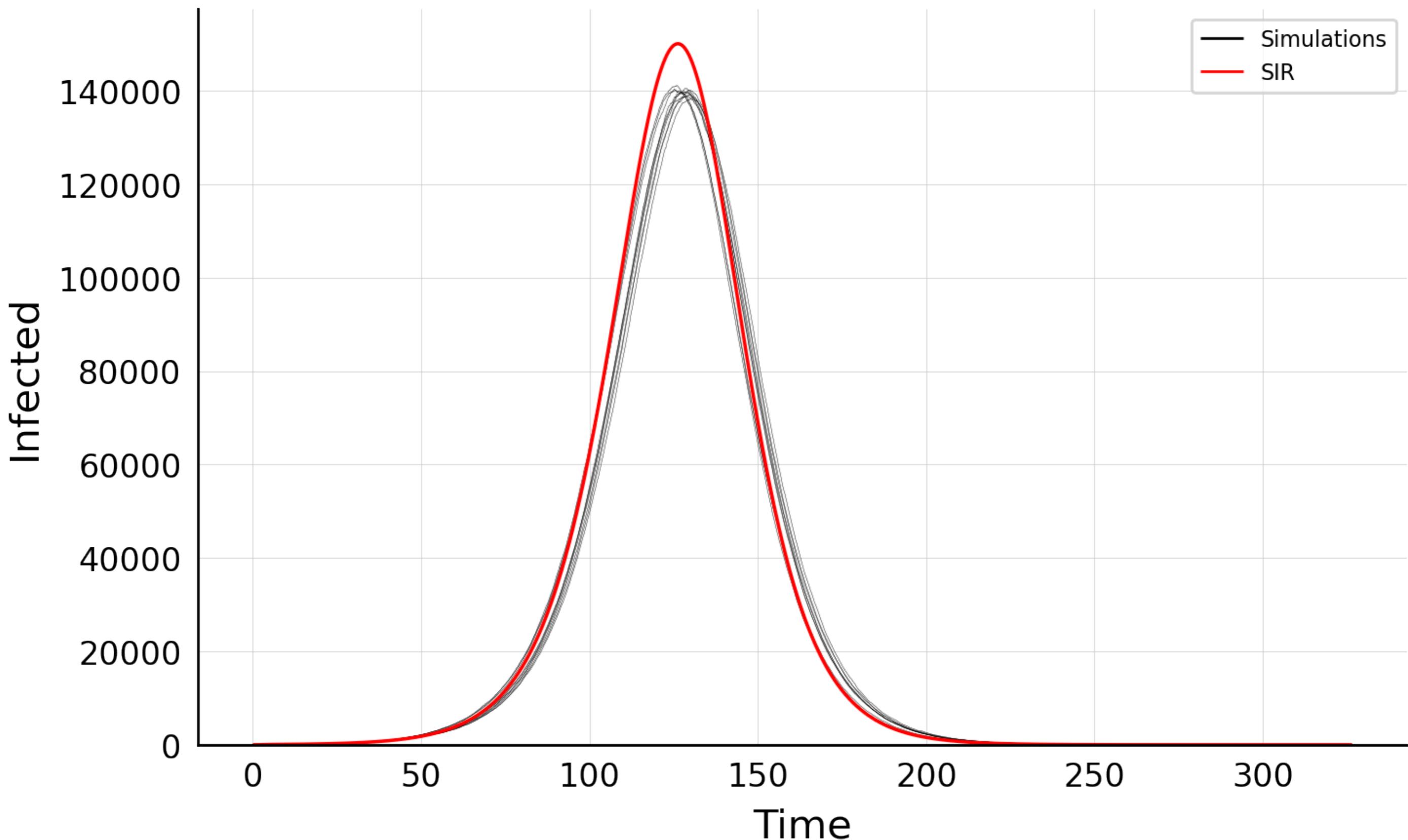
$N_{\text{tot}} = 200K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 1$ ,  $\#10$



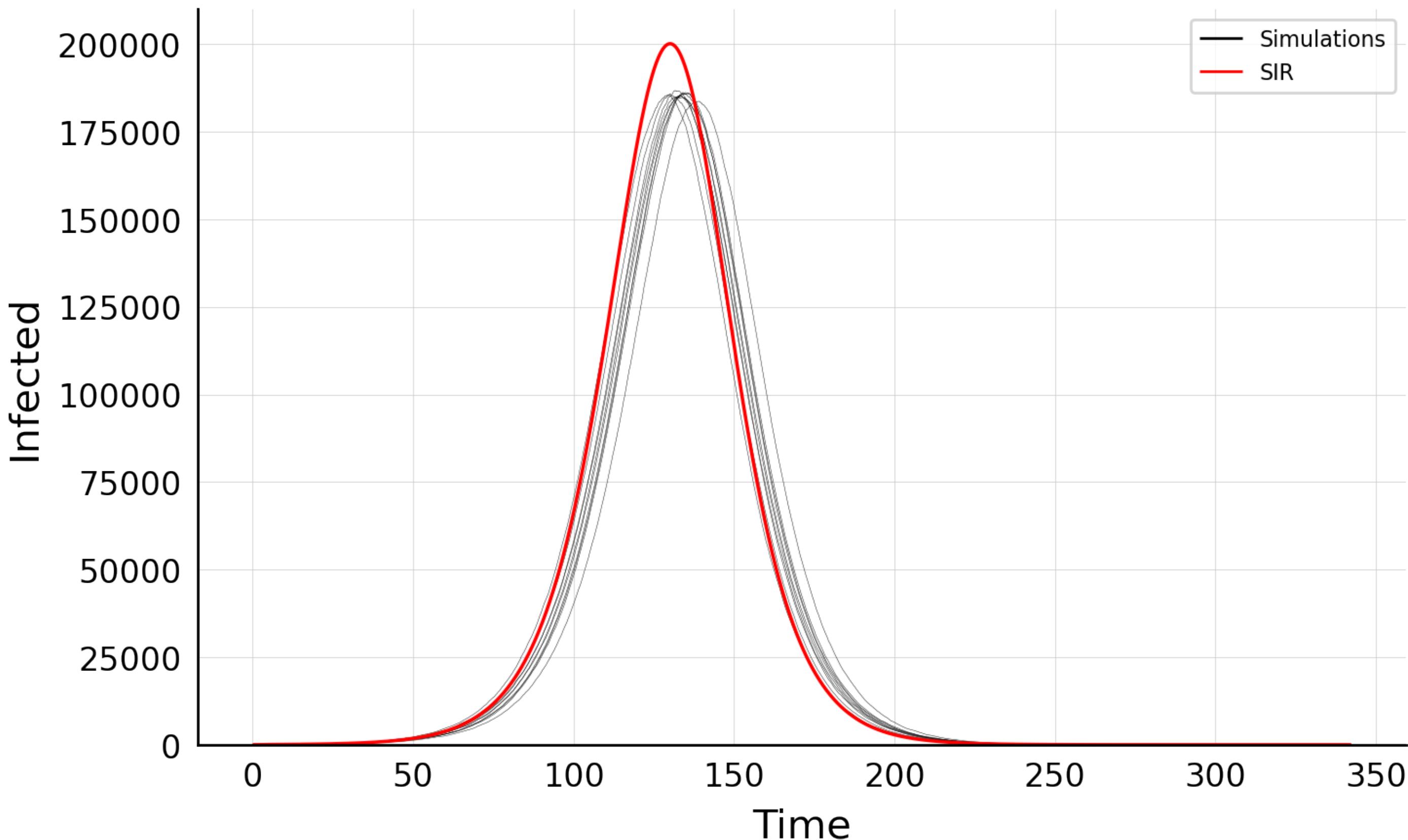
$N_{\text{tot}} = 200K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ ,  $\#10$



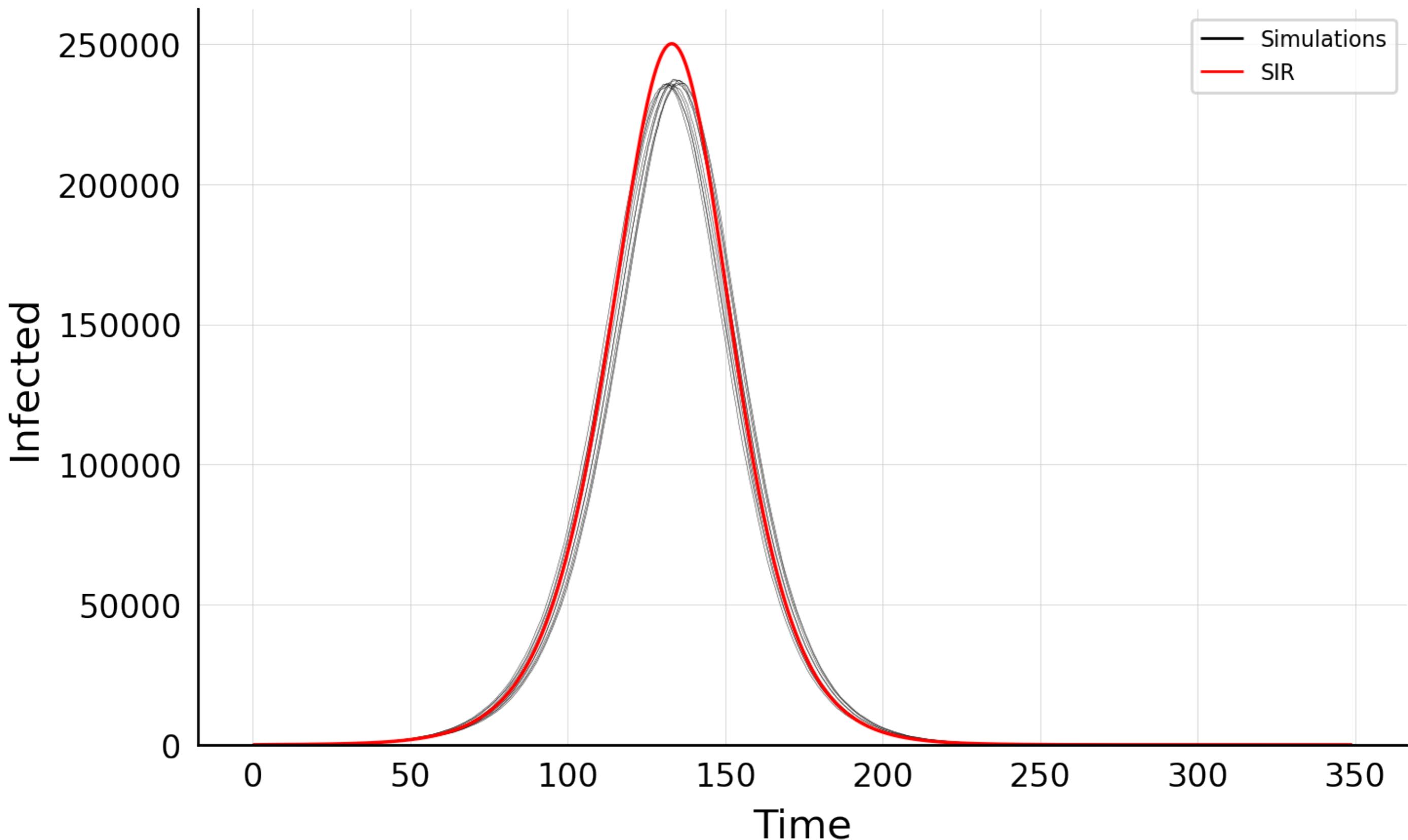
$N_{\text{tot}} = 3M$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



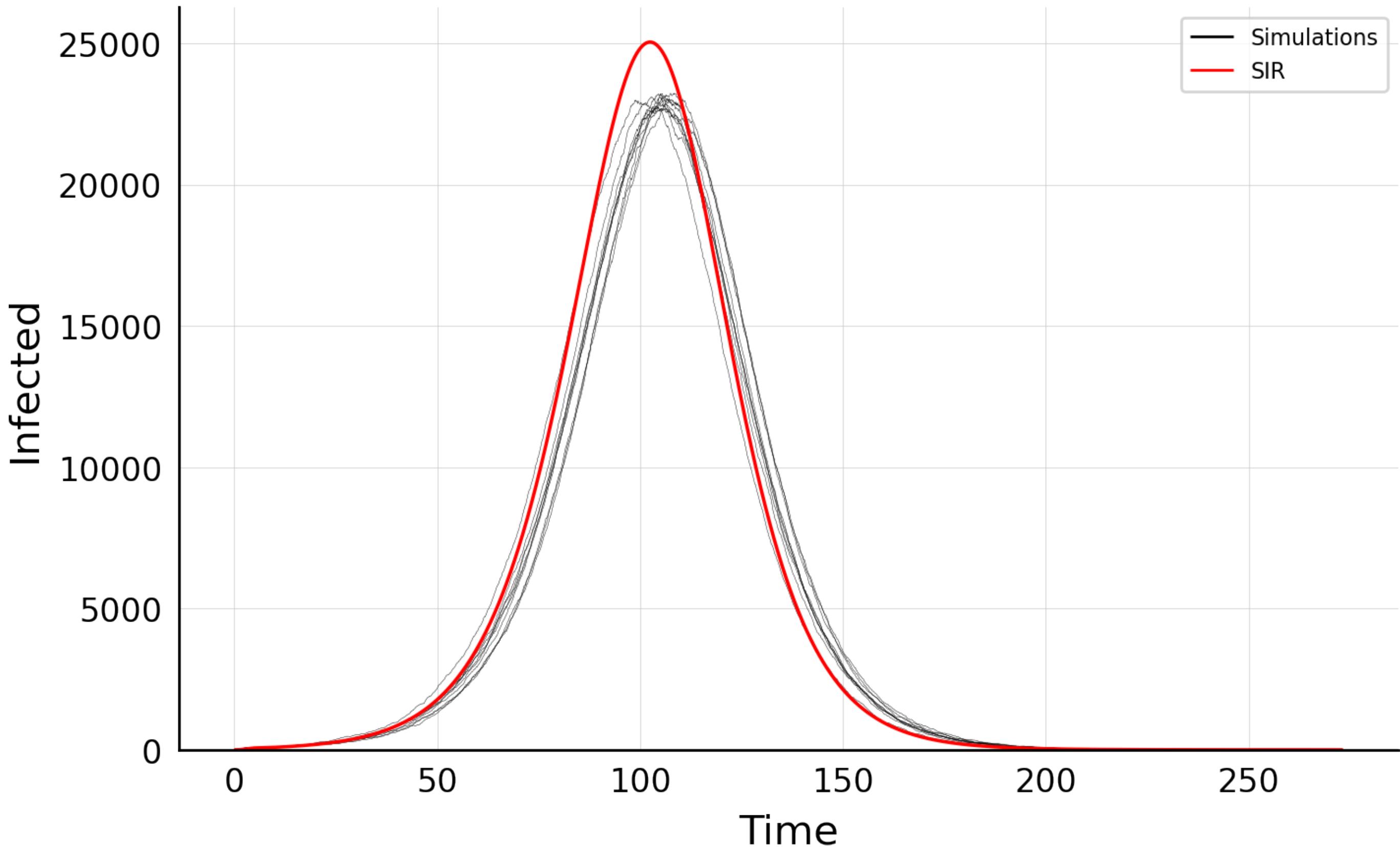
$N_{\text{tot}} = 4M$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



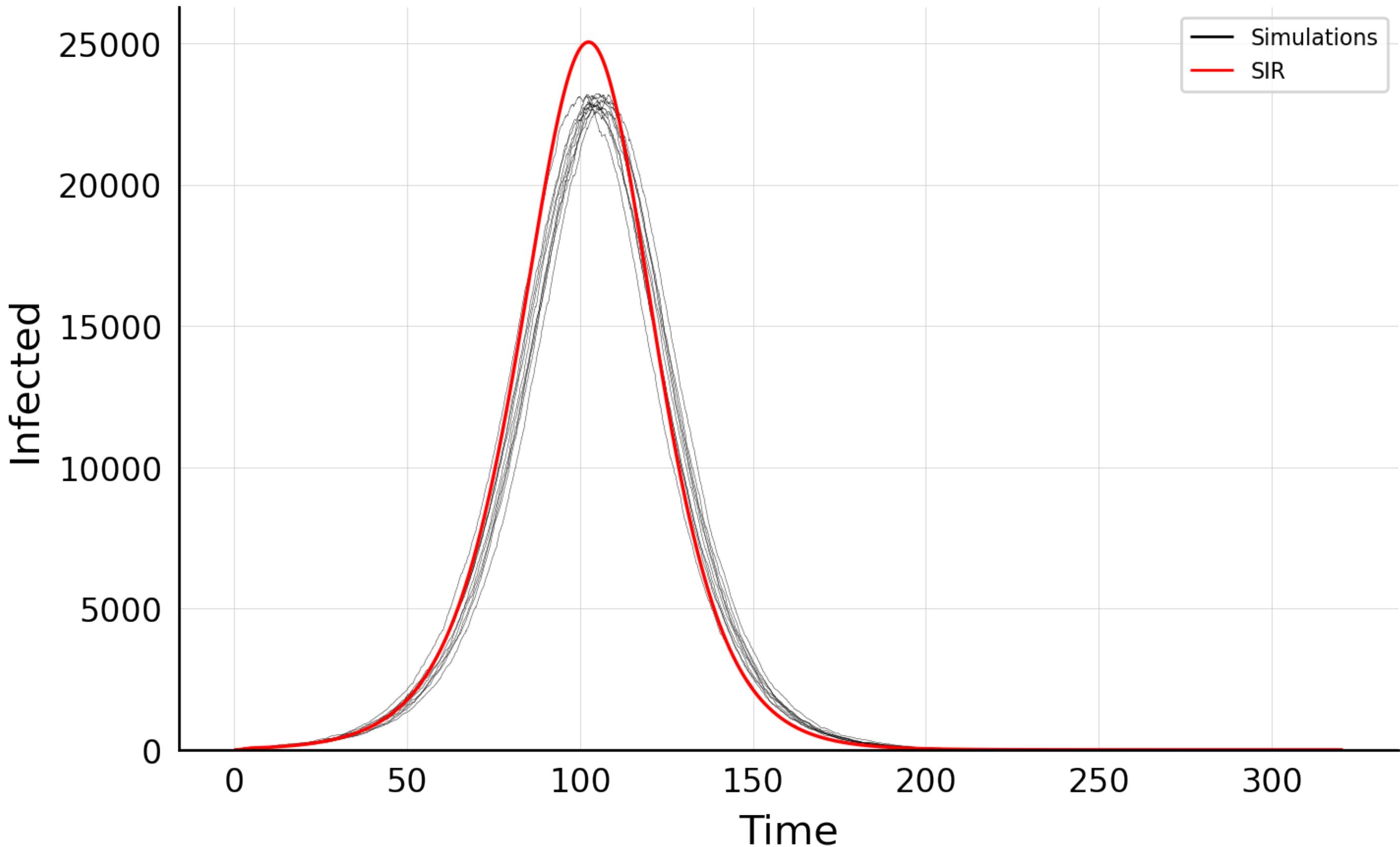
$N_{\text{tot}} = 5M$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



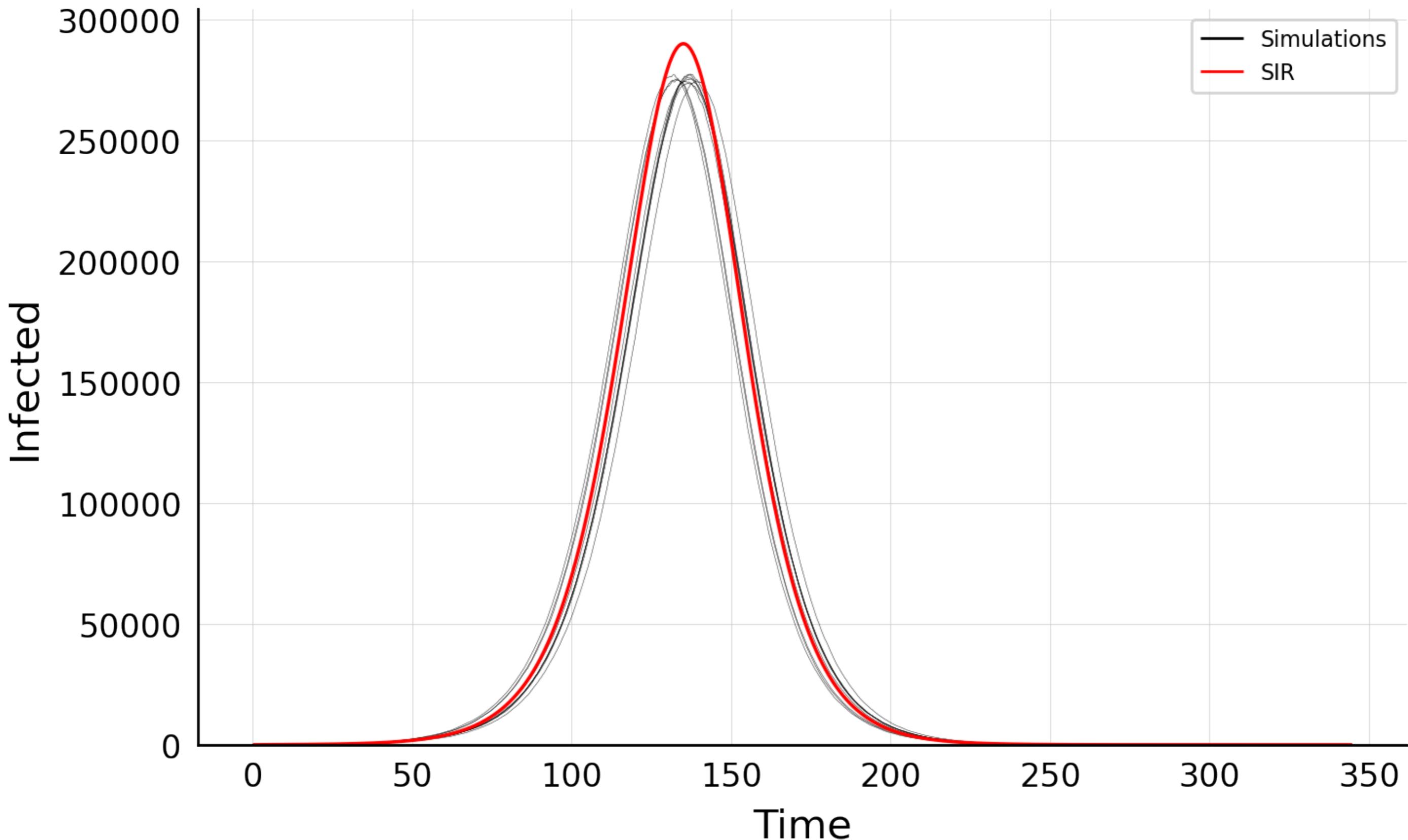
$N_{\text{tot}} = 500K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 1$ ,  $\#10$



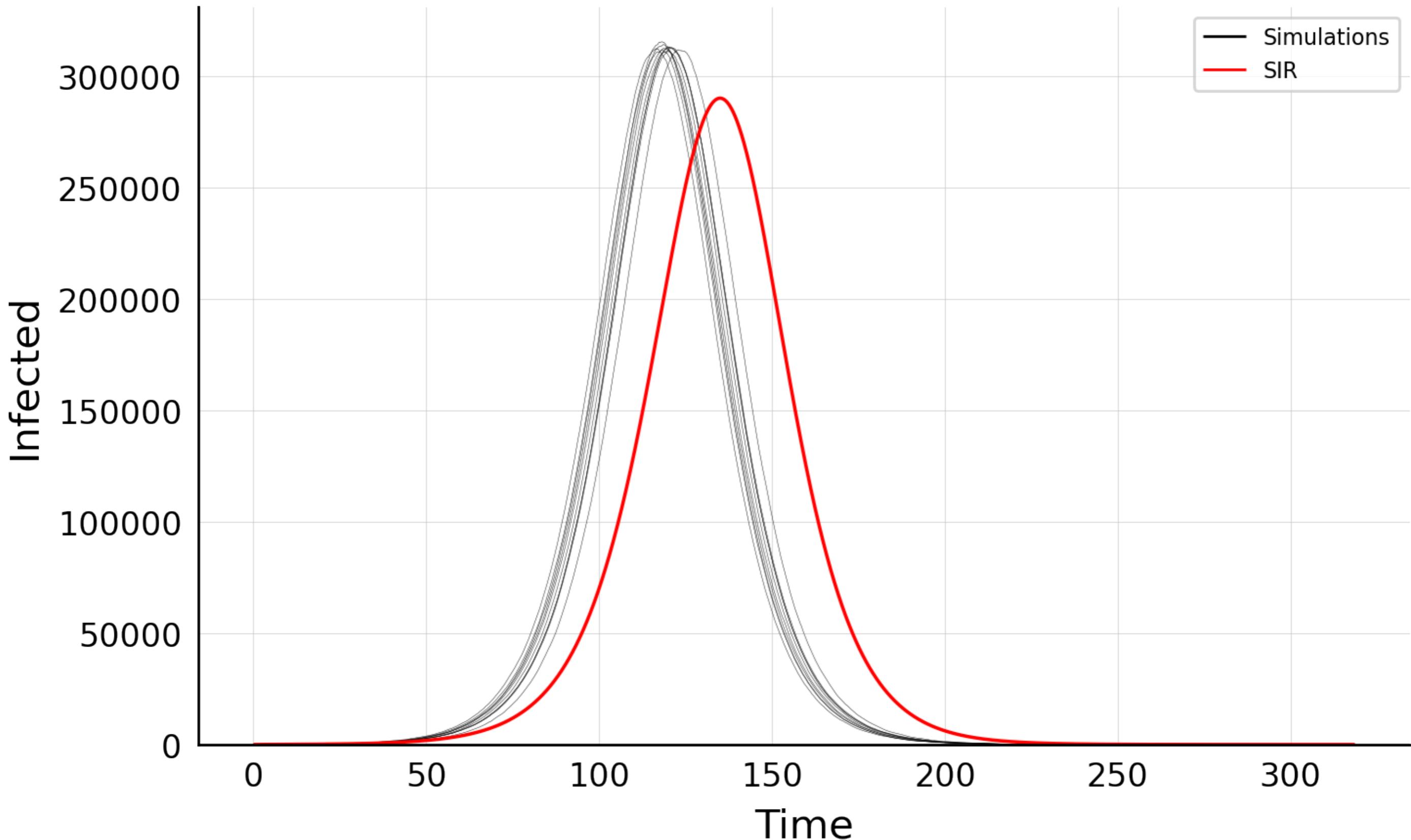
$N_{\text{tot}} = 500K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ ,  $\#10$



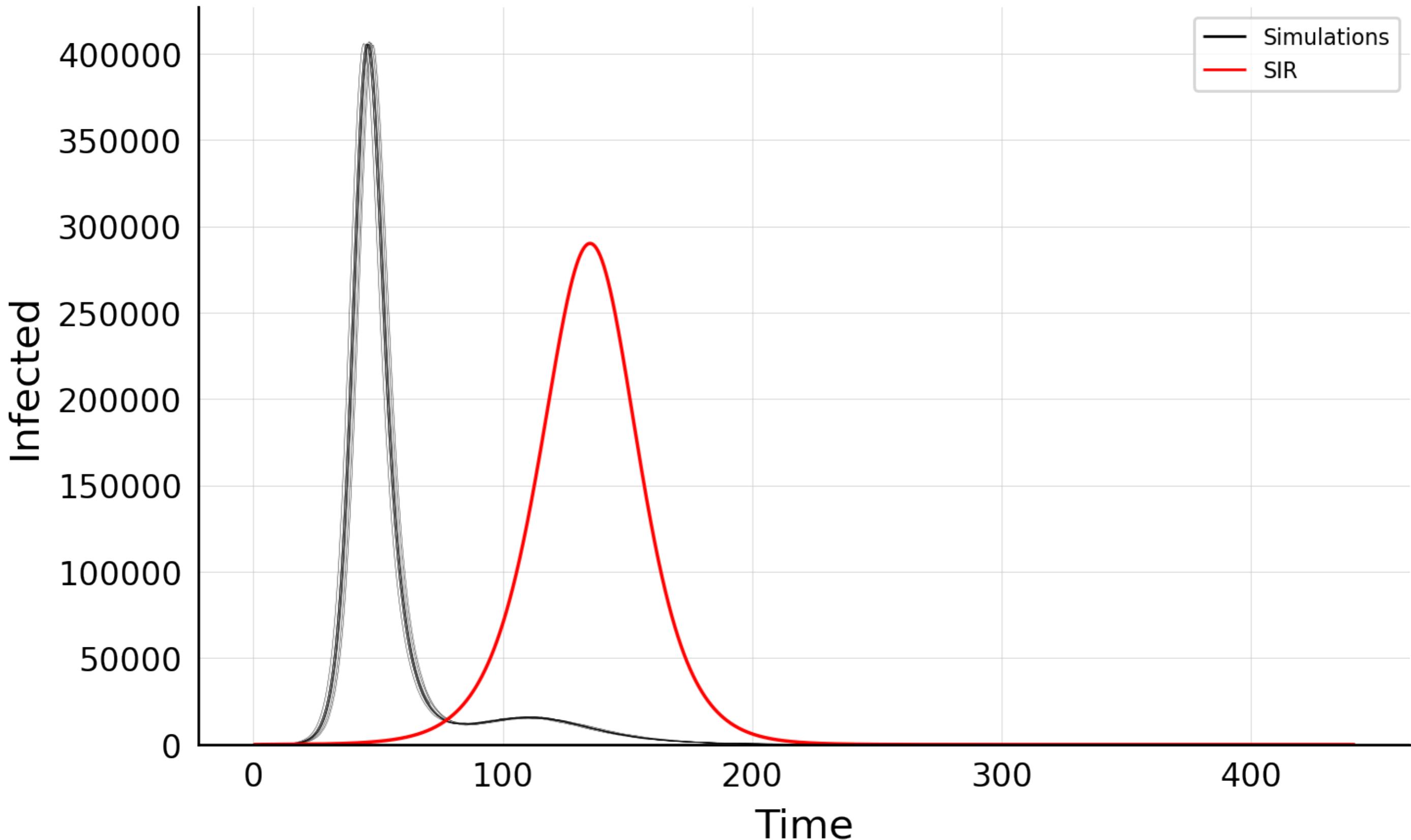
$N_{\text{tot}} = 5.8M$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



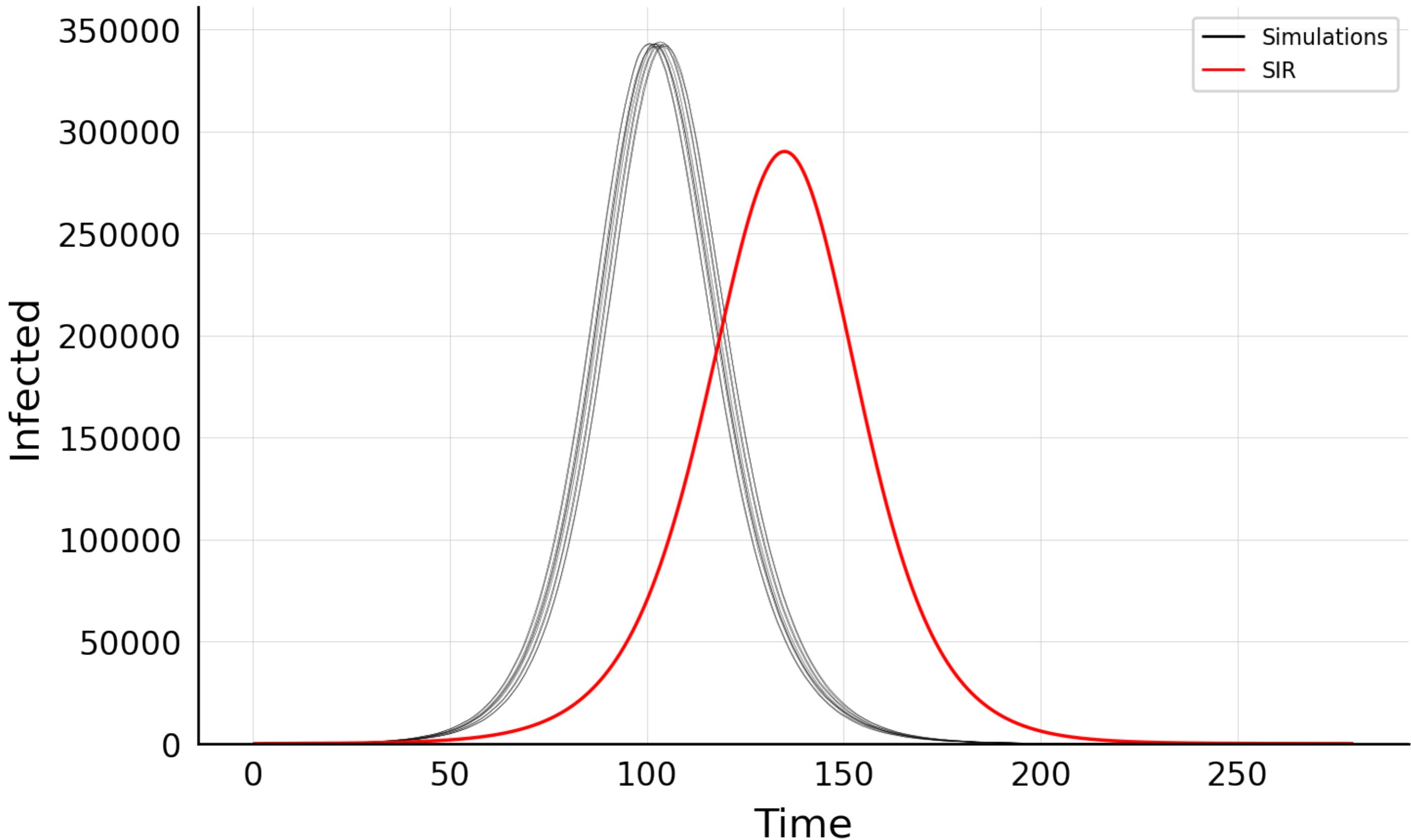
$N_{\text{tot}} = 5.8M$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 10.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



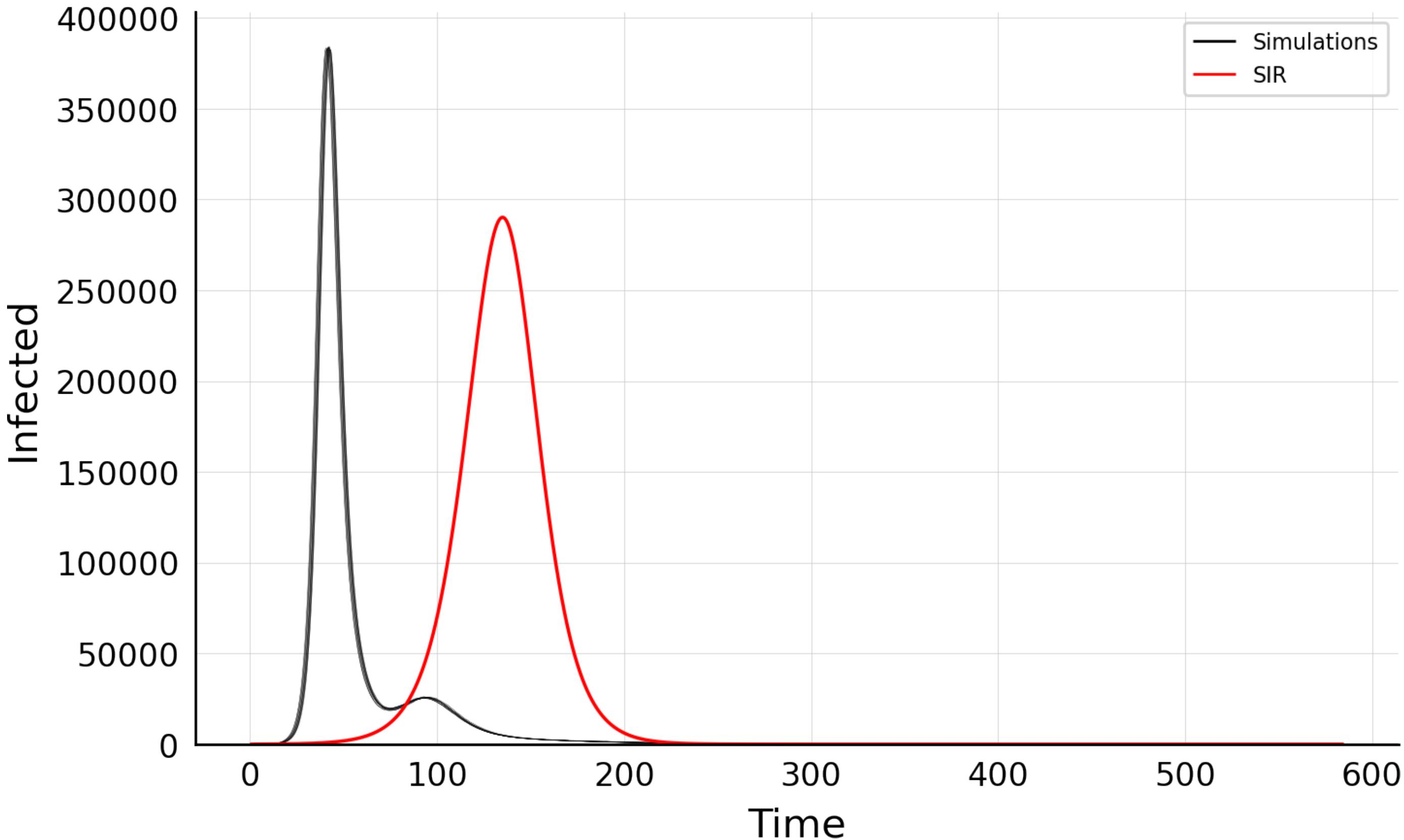
$N_{\text{tot}} = 5.8M$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 100.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ ,  $\#10$



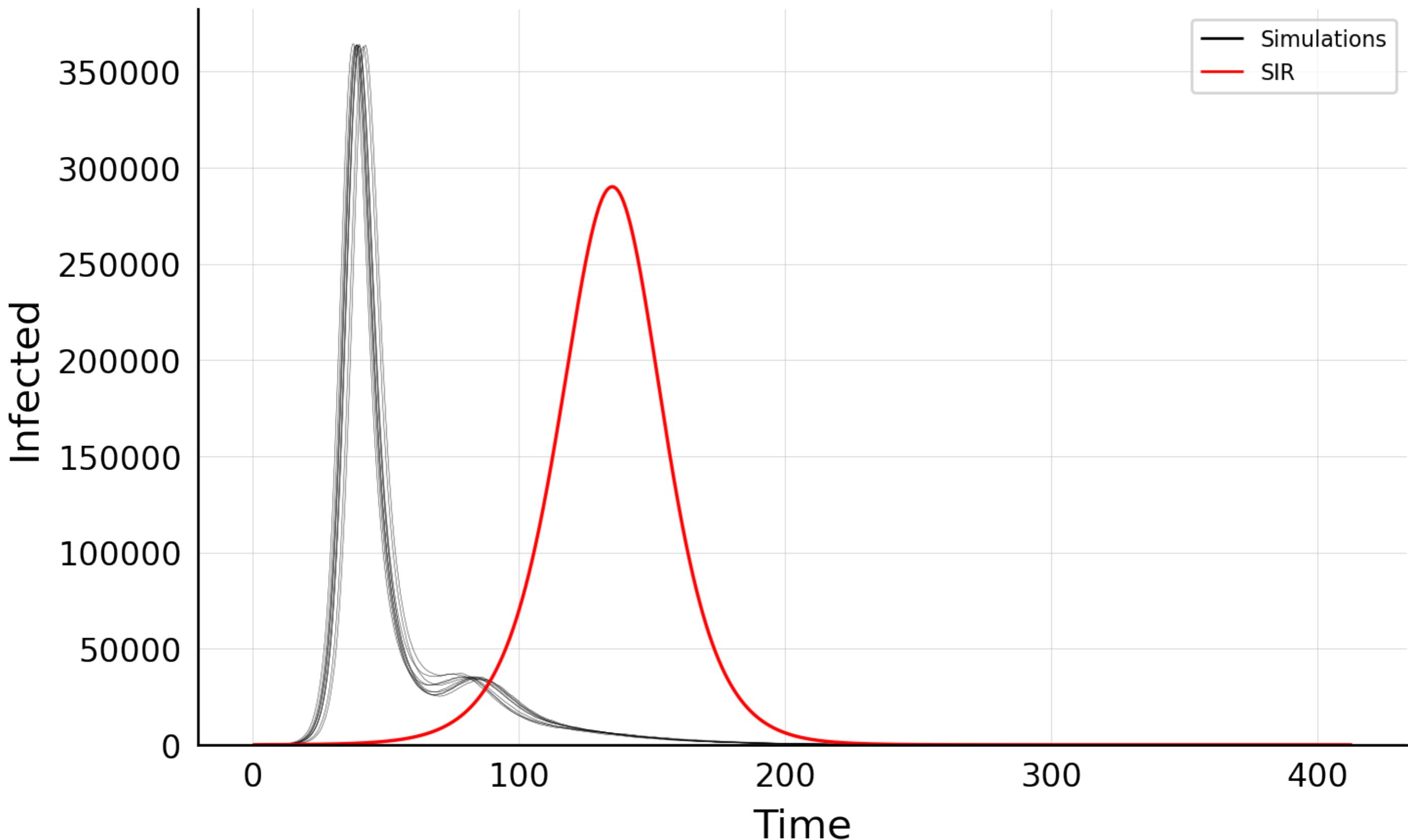
$N_{\text{tot}} = 5.8M$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 15.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



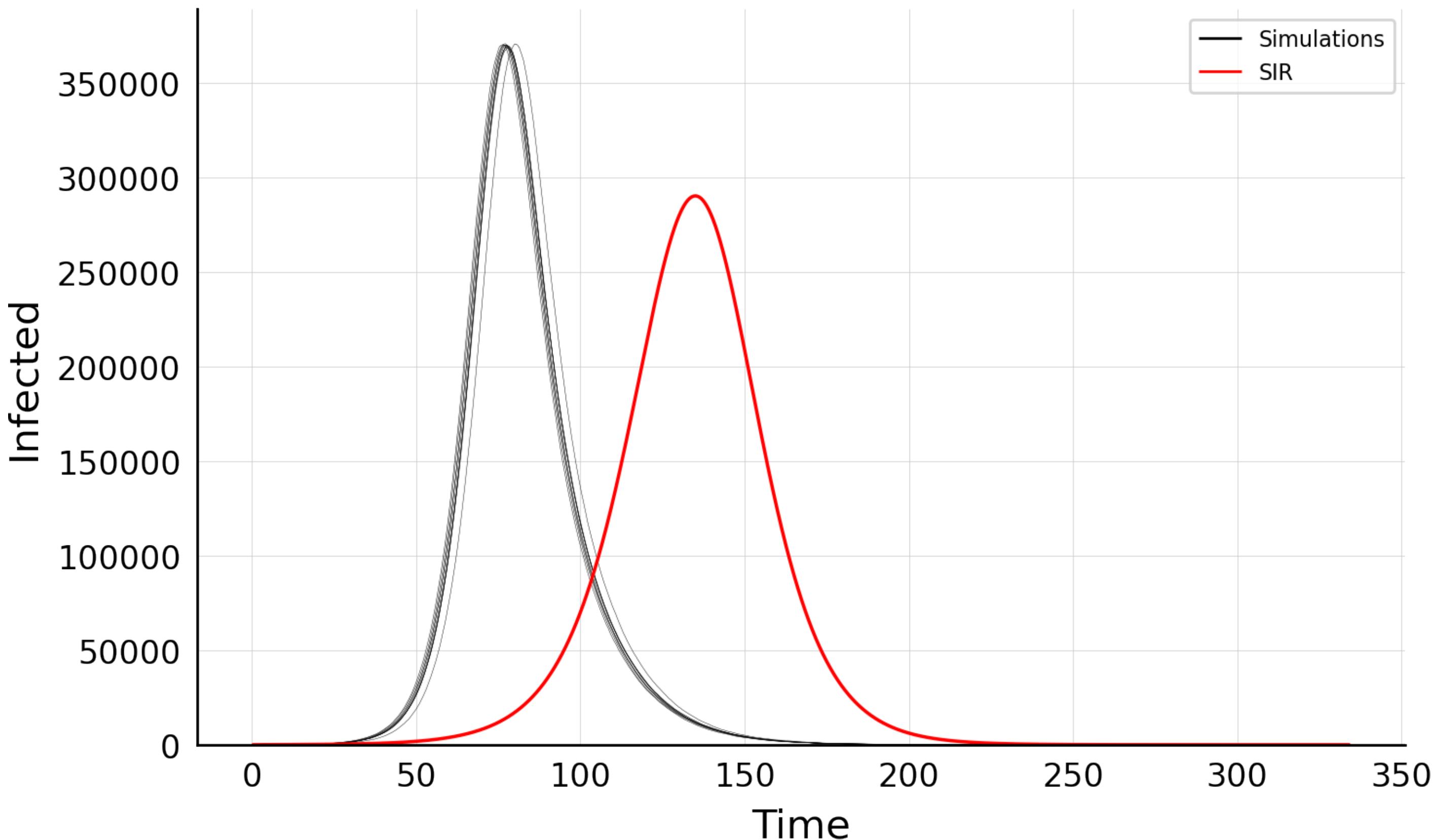
$N_{\text{tot}} = 5.8M$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 150.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



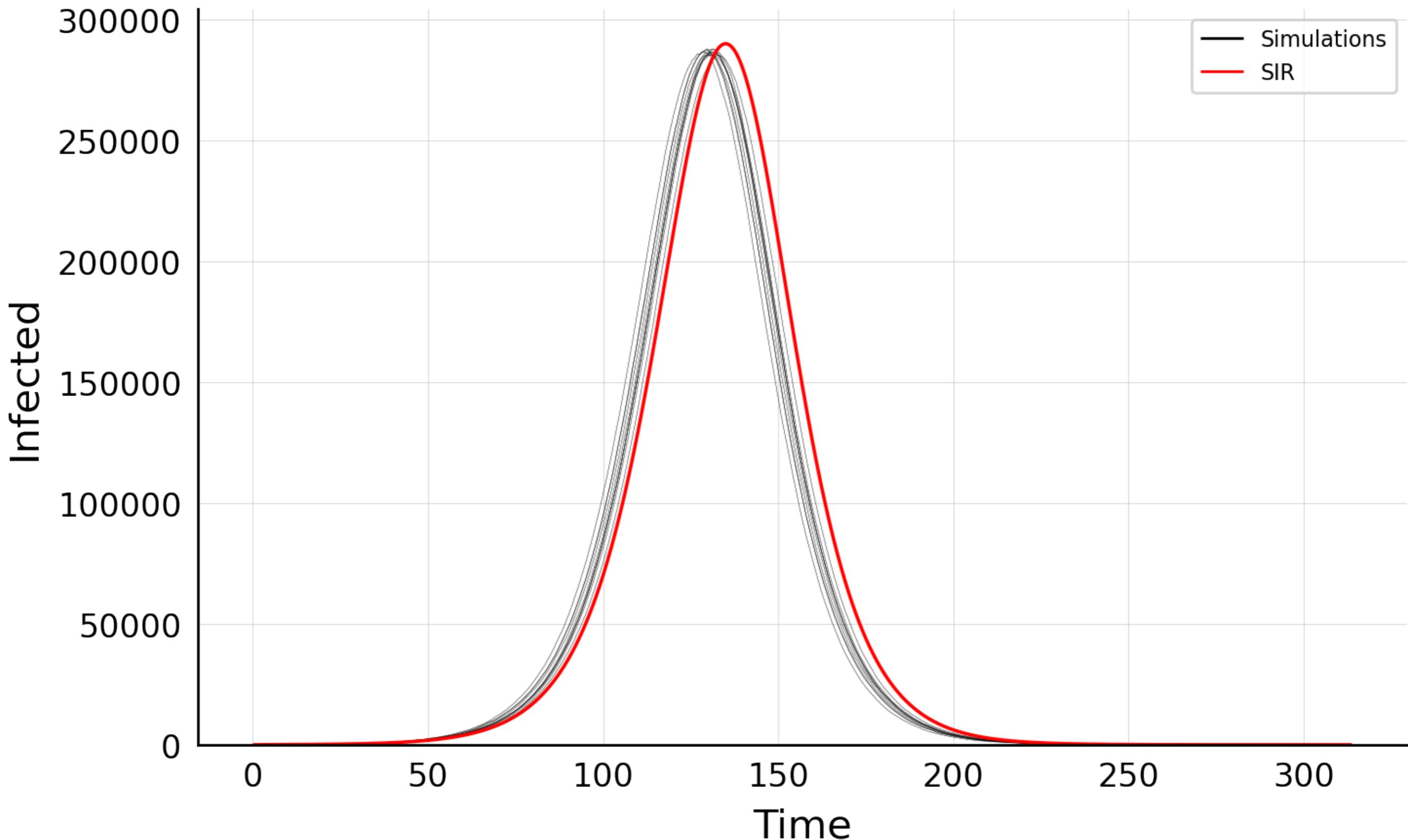
$N_{\text{tot}} = 5.8M$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 200.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



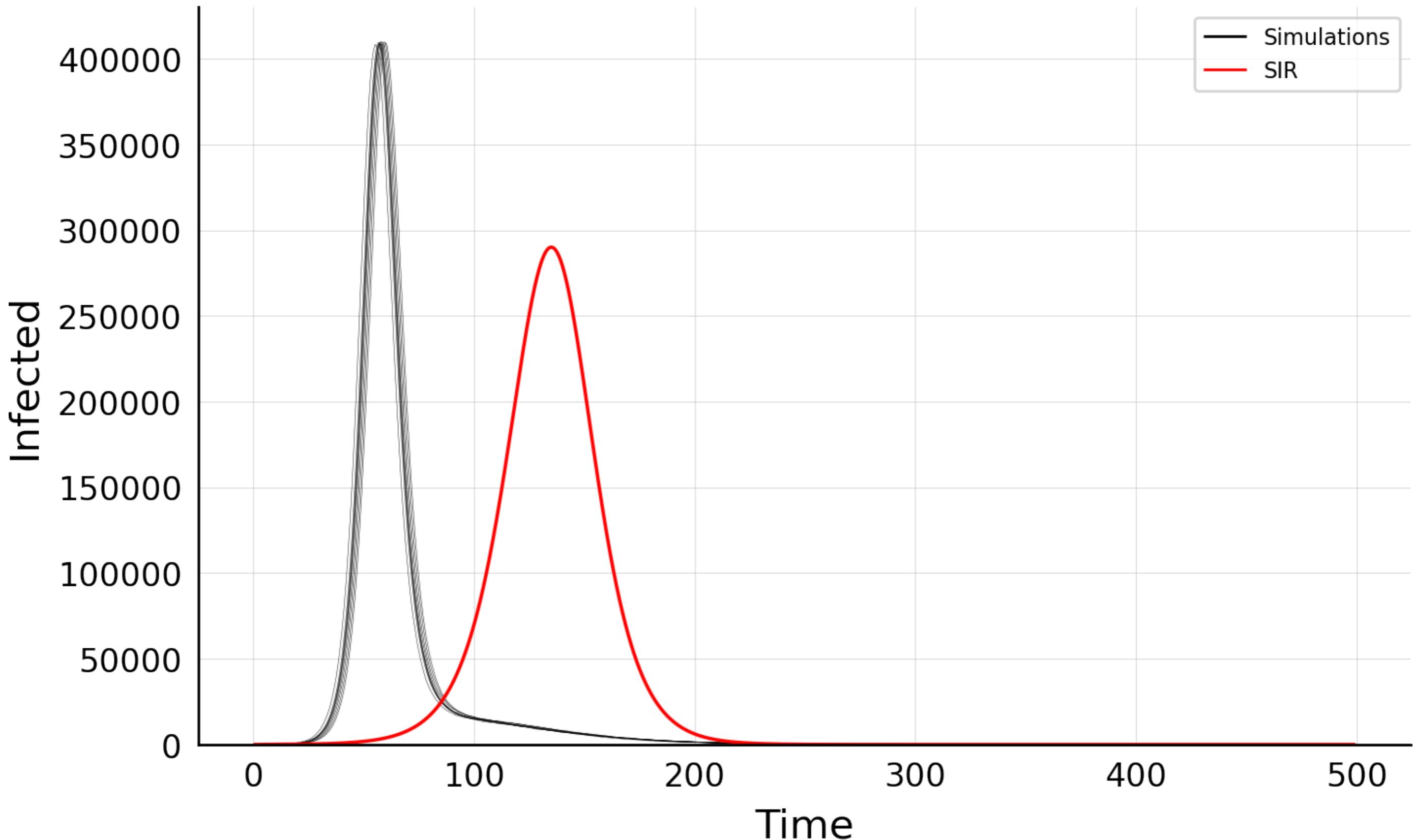
$N_{\text{tot}} = 5.8M$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 25.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ ,  $\#10$



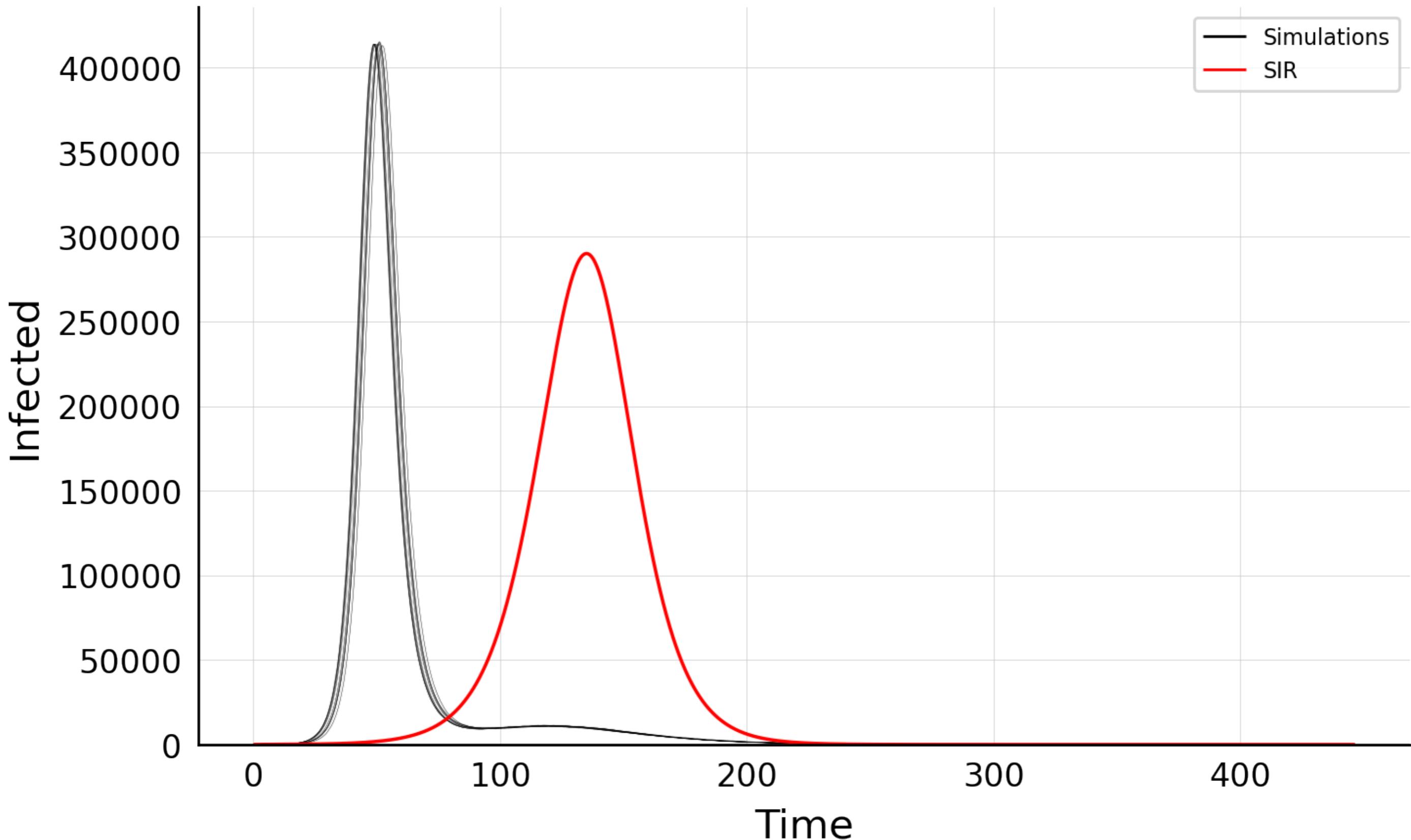
$N_{\text{tot}} = 5.8M$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 5.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



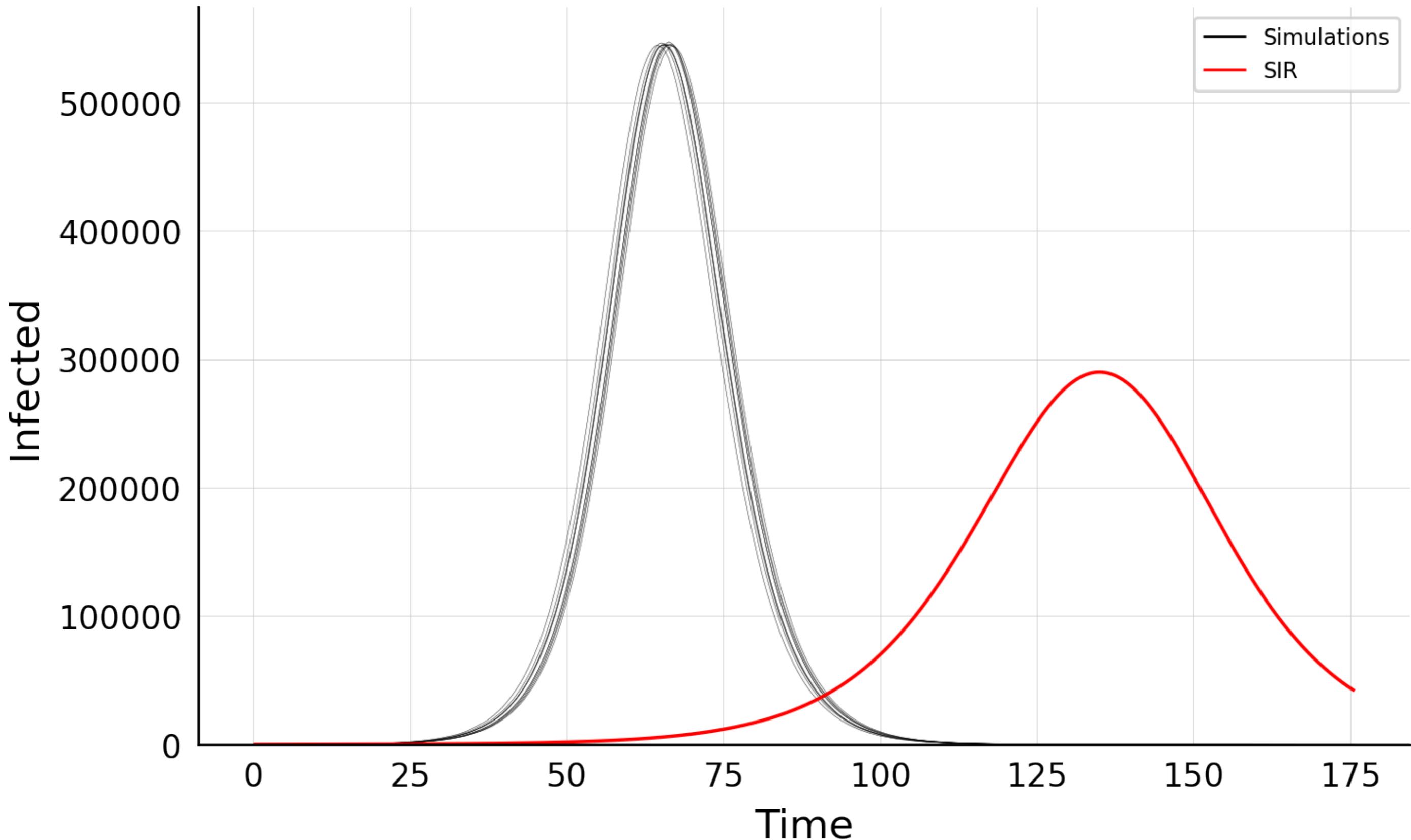
$N_{\text{tot}} = 5.8M$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 50.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



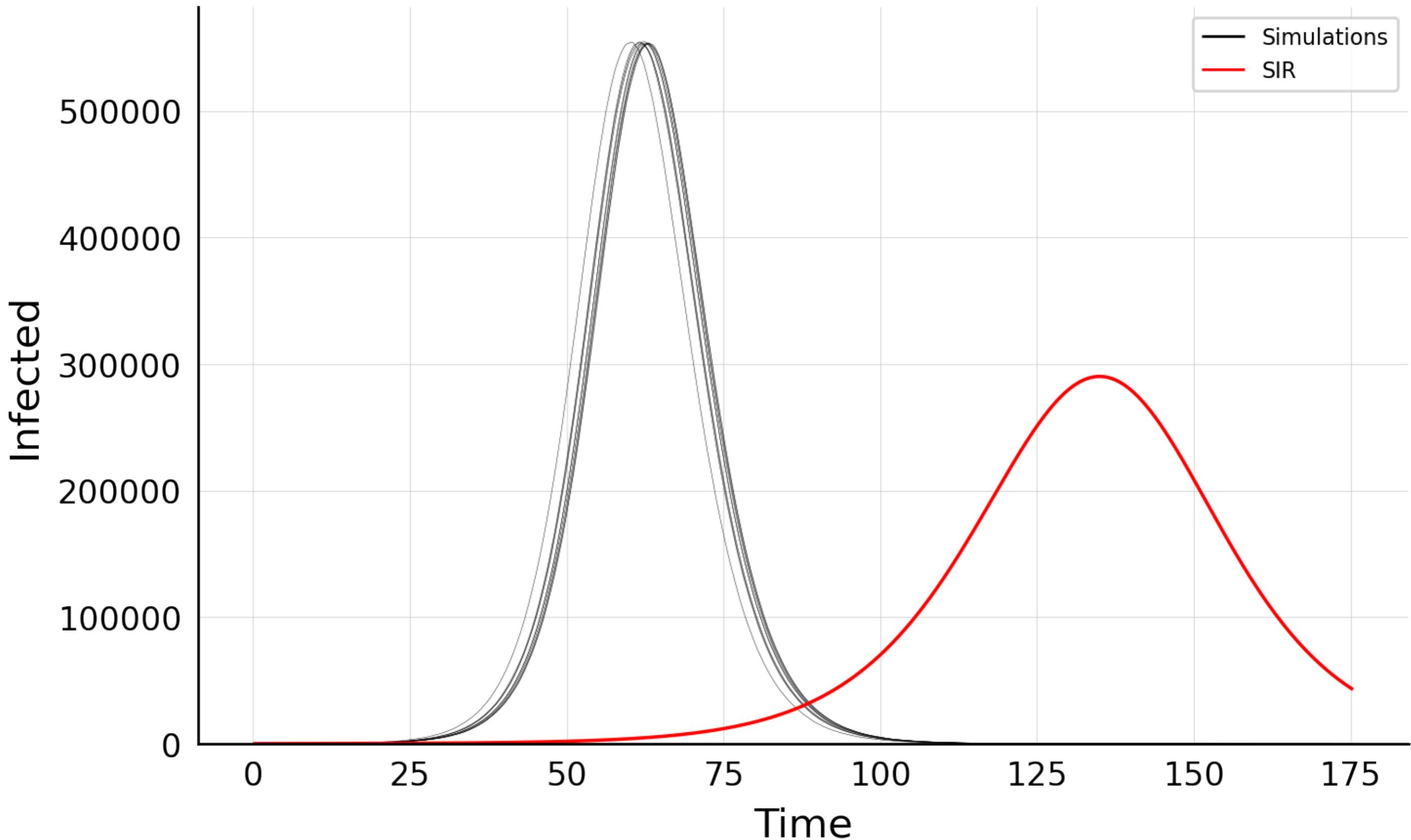
$N_{\text{tot}} = 5.8M$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 75.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



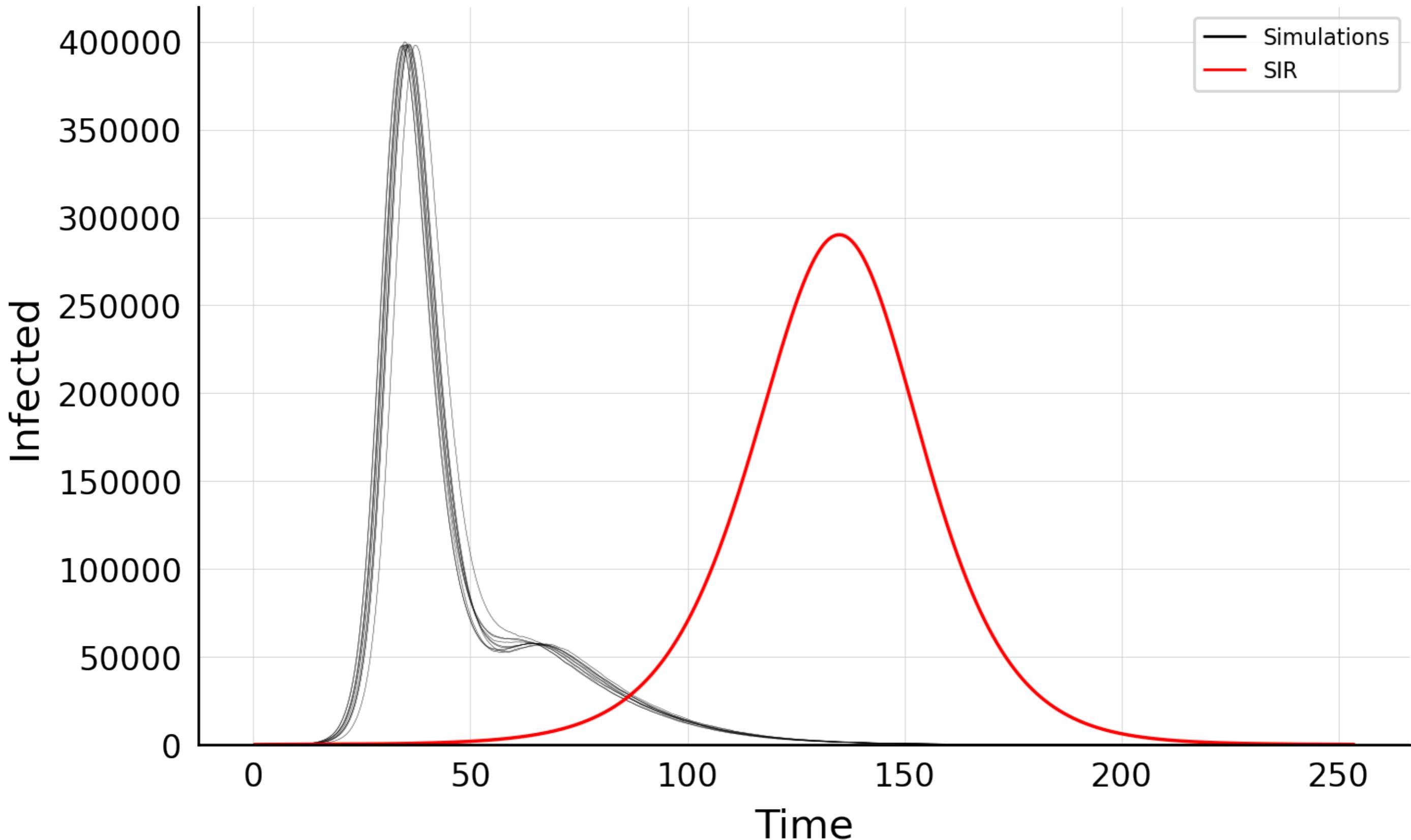
$N_{\text{tot}} = 5.8M$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



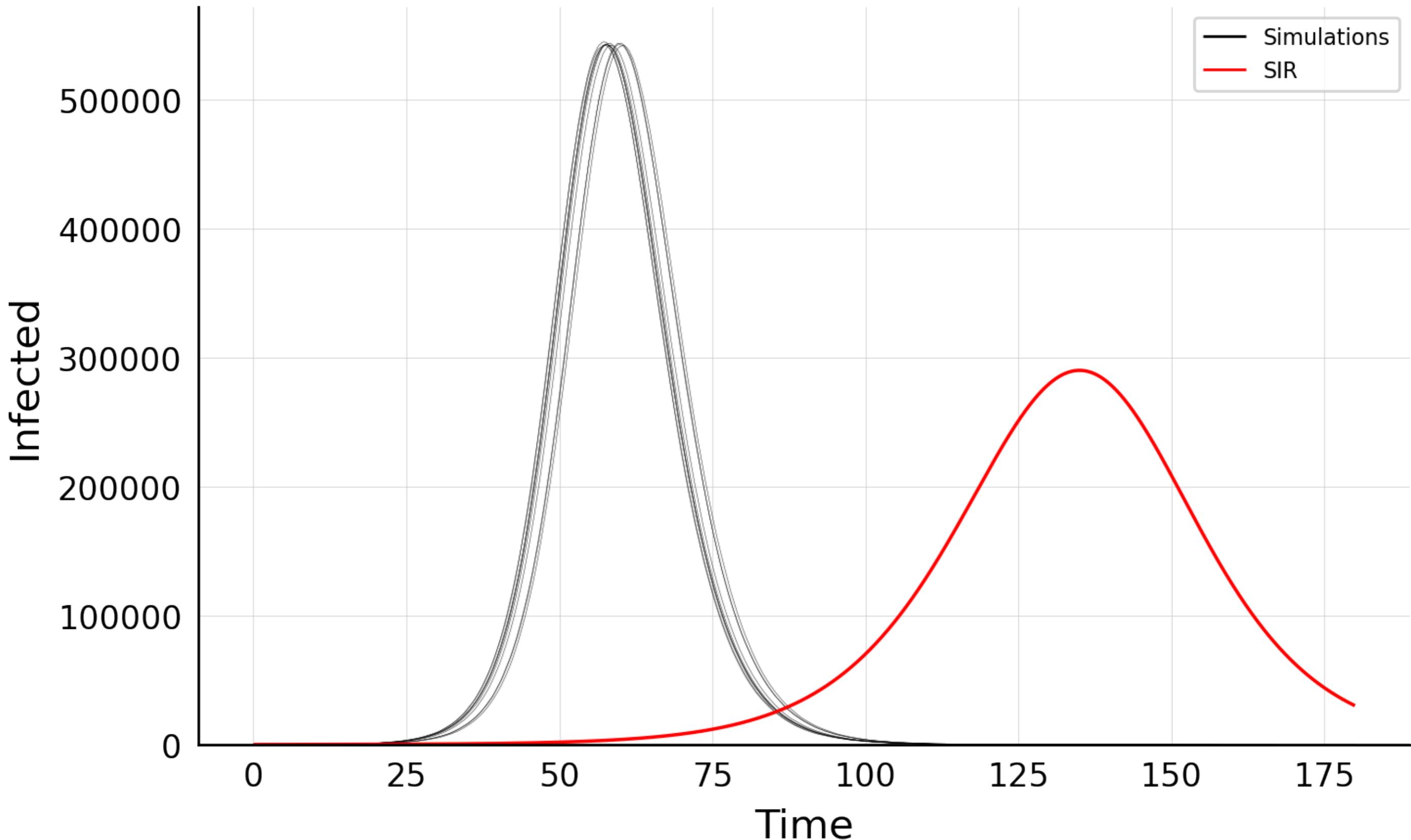
$N_{\text{tot}} = 5.8M$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 10.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



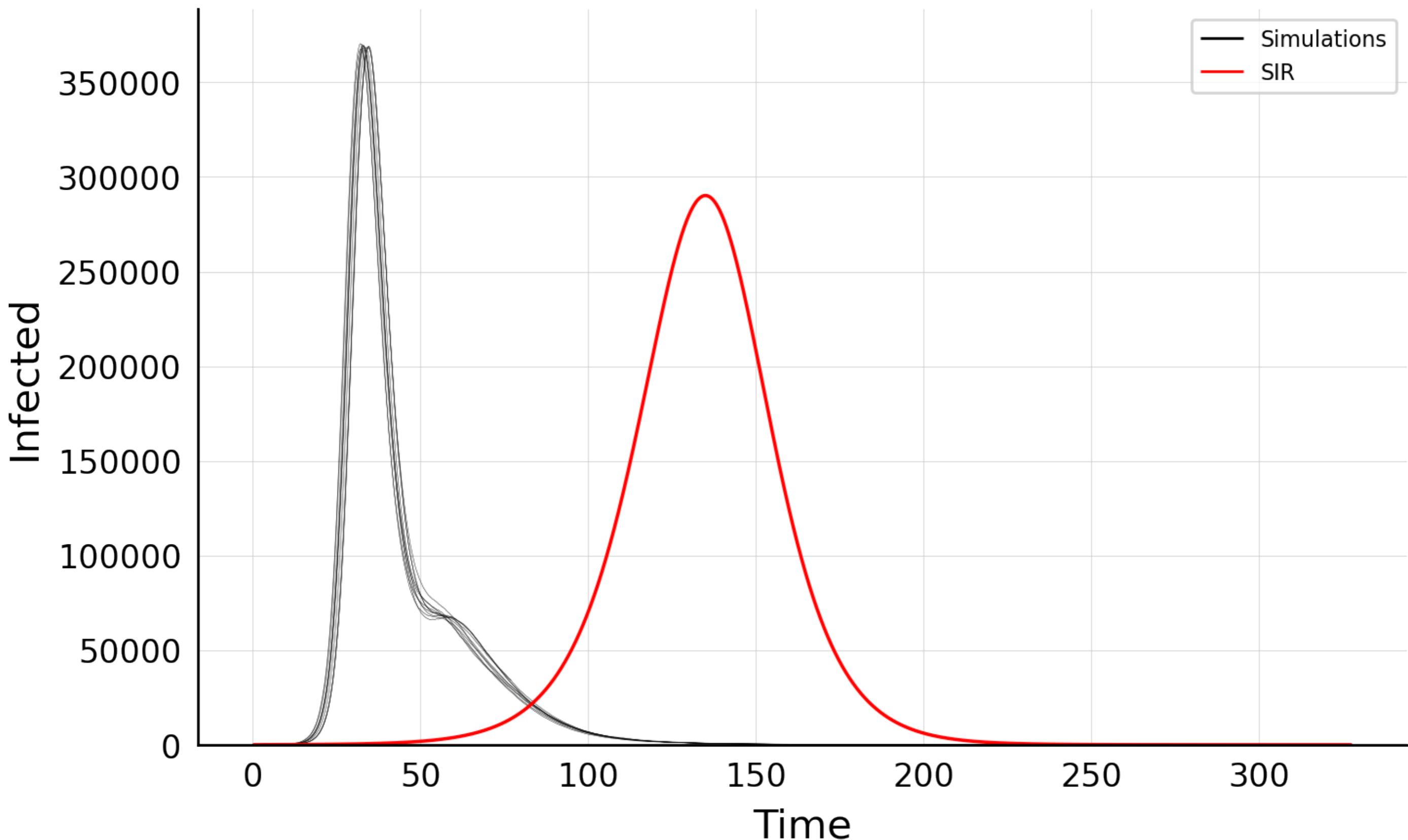
$N_{\text{tot}} = 5.8M$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 100.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



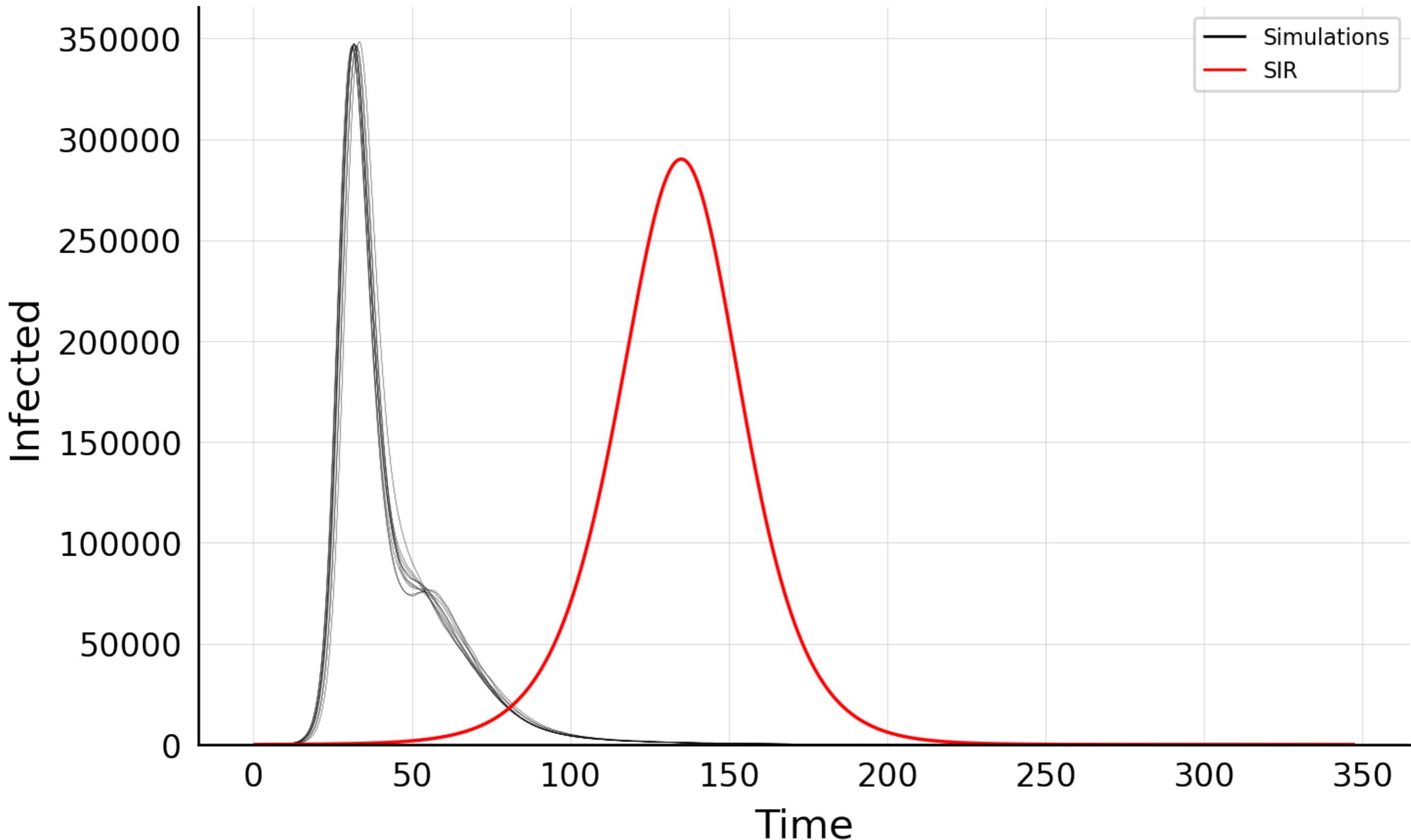
$N_{\text{tot}} = 5.8M$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 15.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



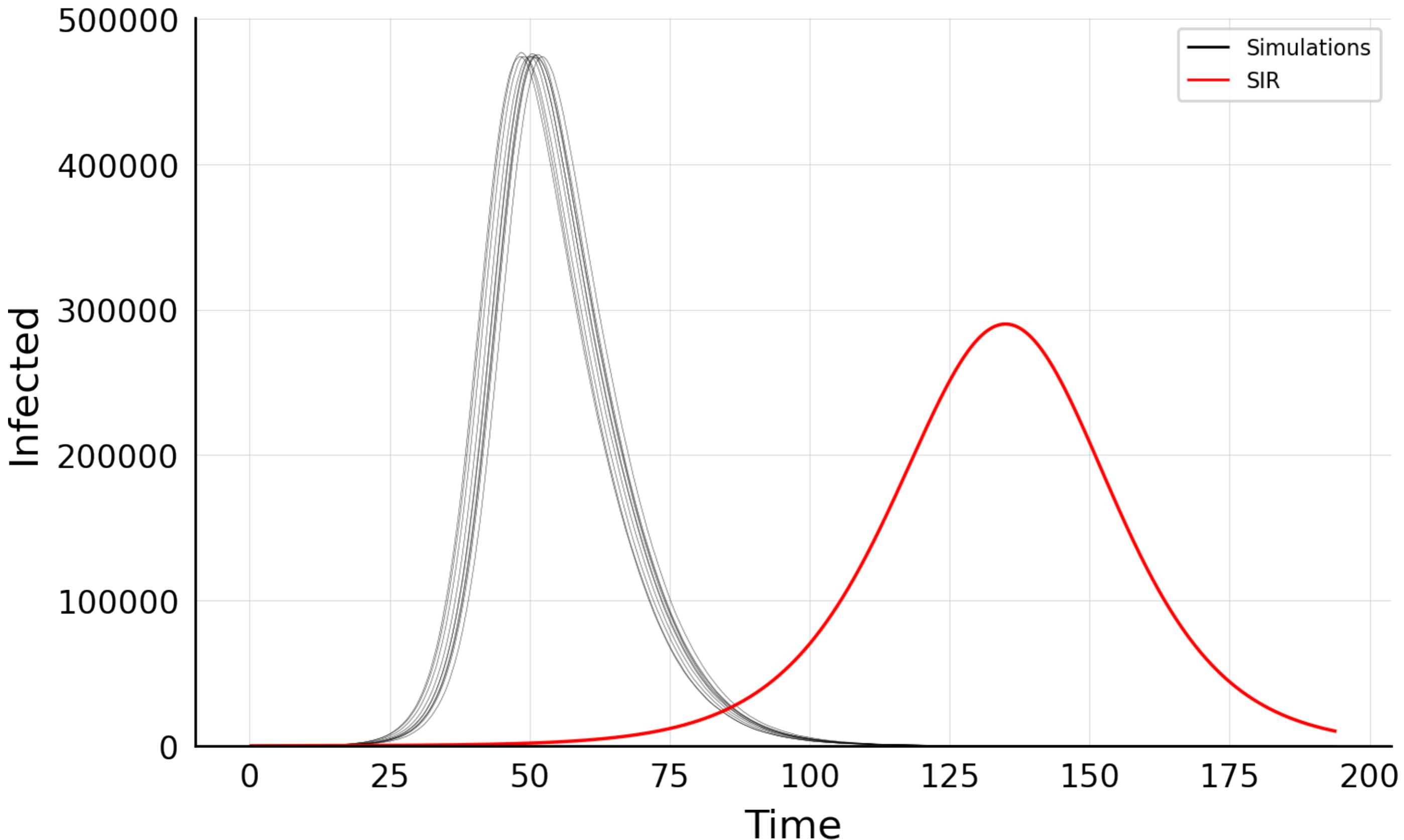
$N_{\text{tot}} = 5.8M$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 150.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



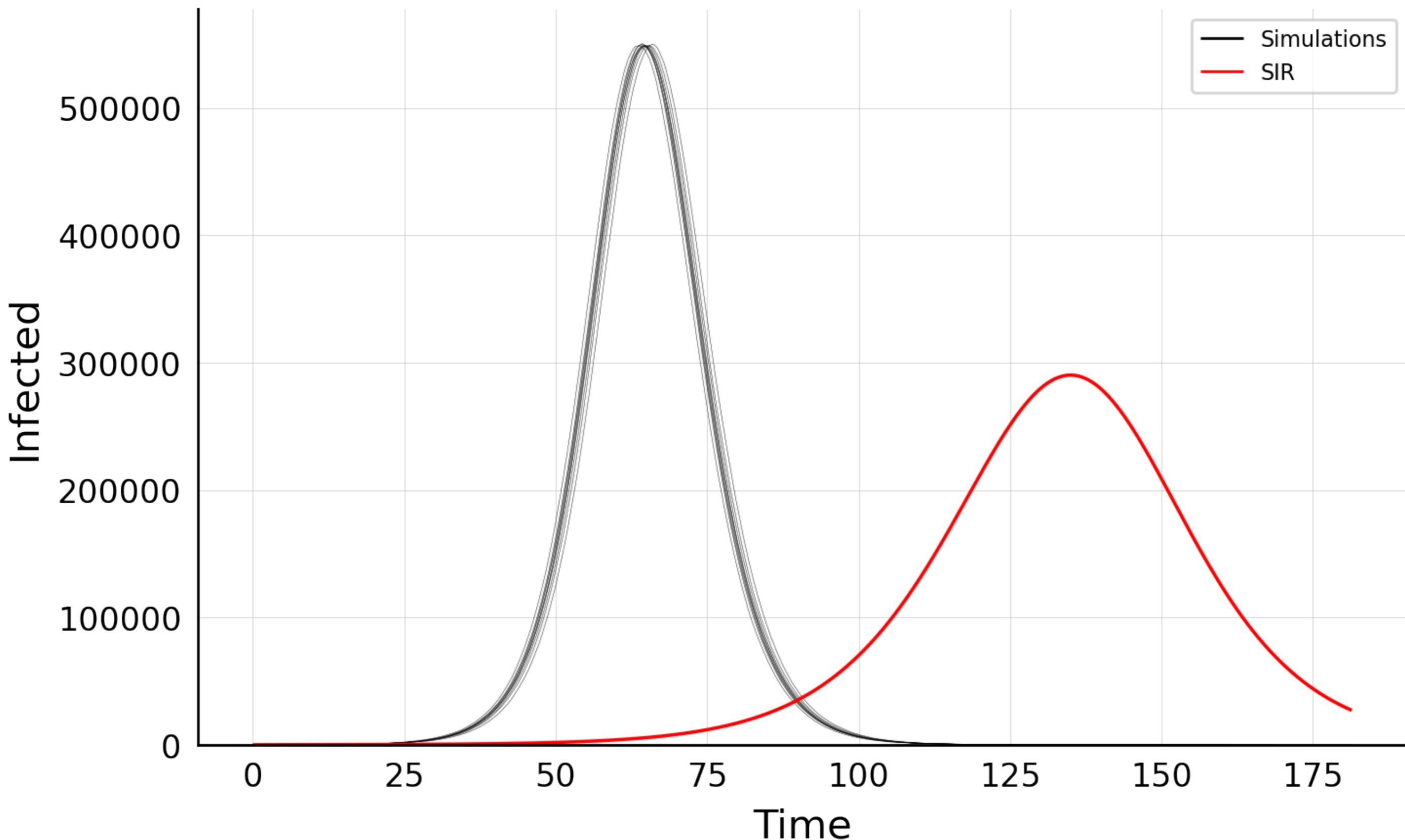
$N_{\text{tot}} = 5.8M$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 200.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



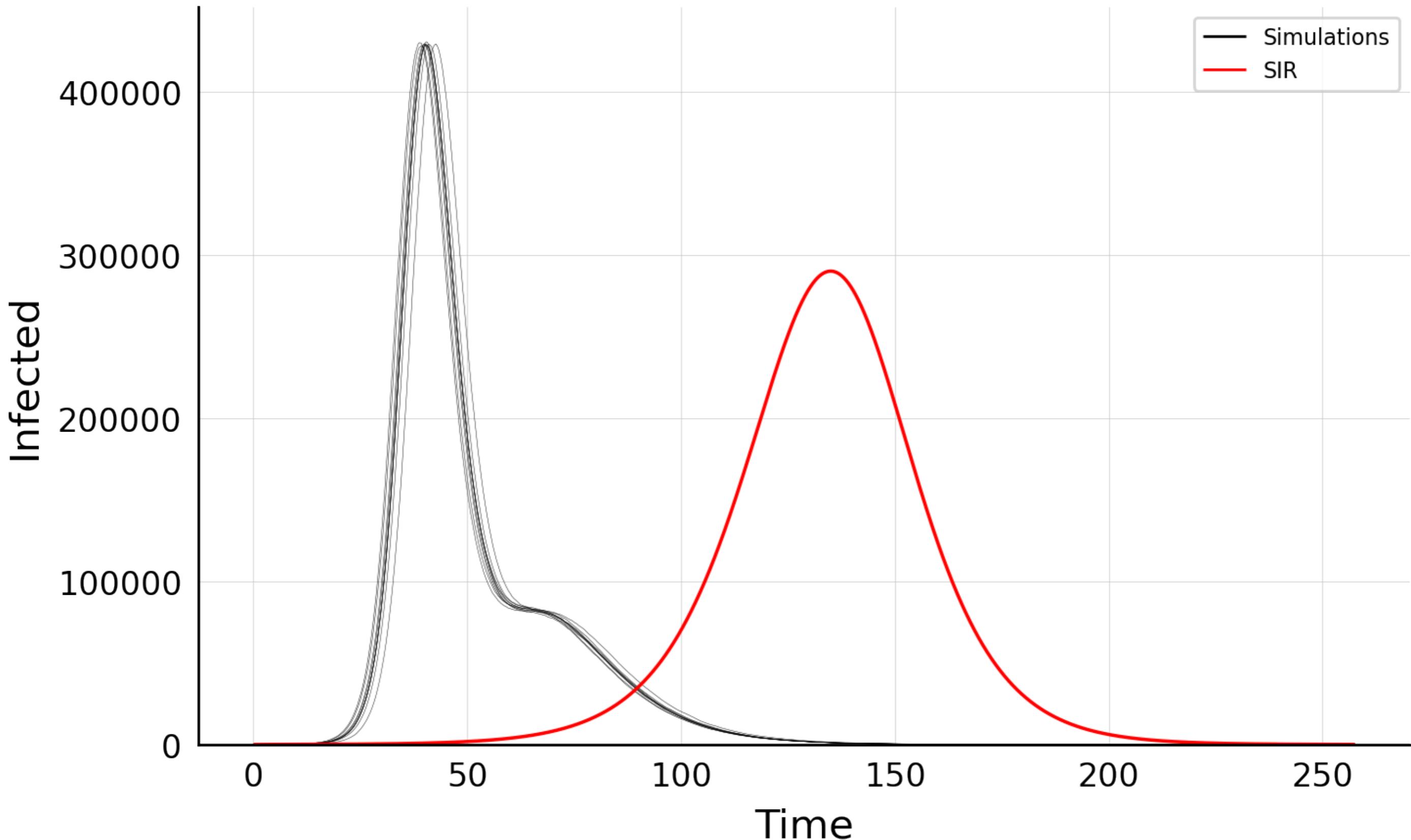
$N_{\text{tot}} = 5.8M$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 25.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



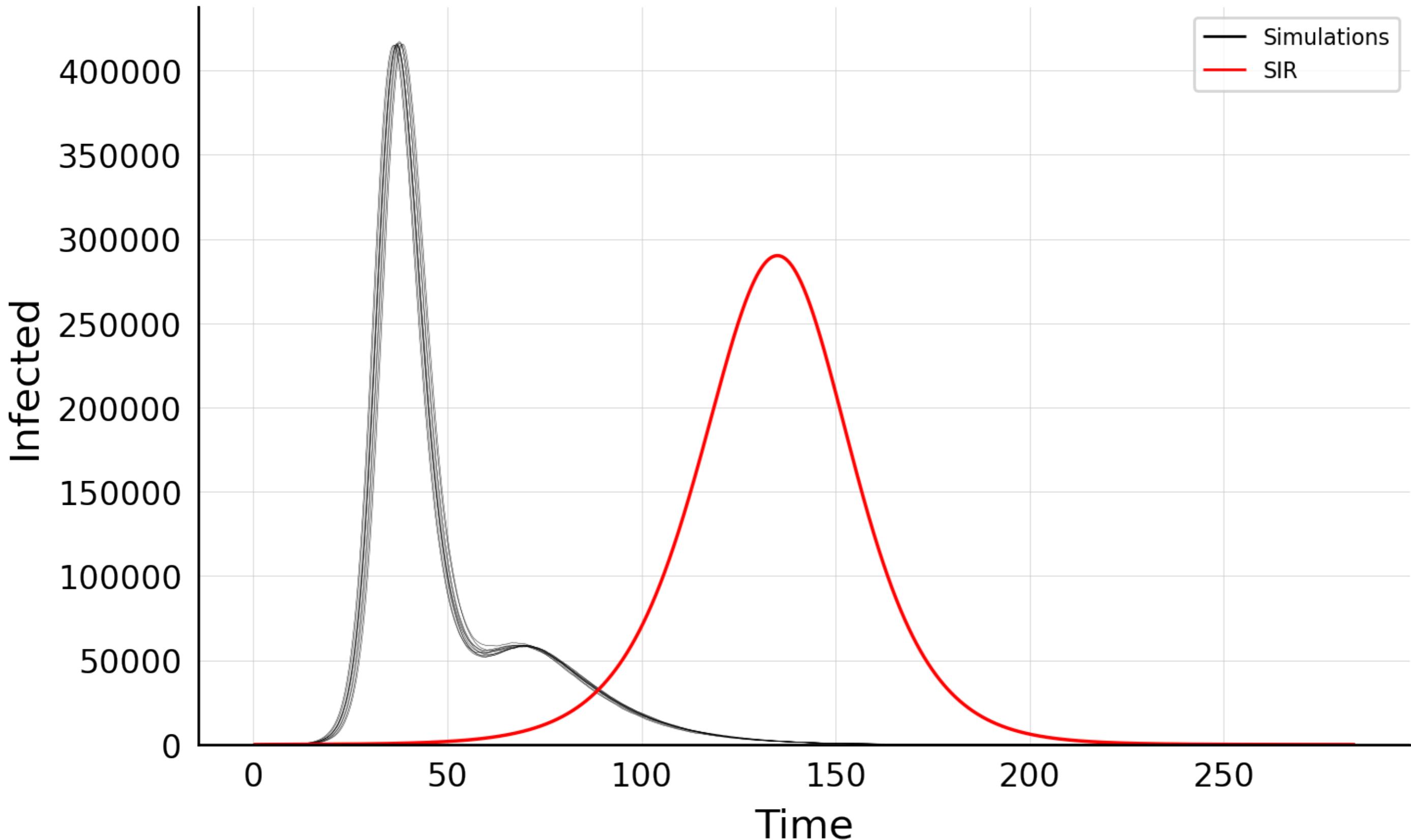
$N_{\text{tot}} = 5.8M$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 5.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



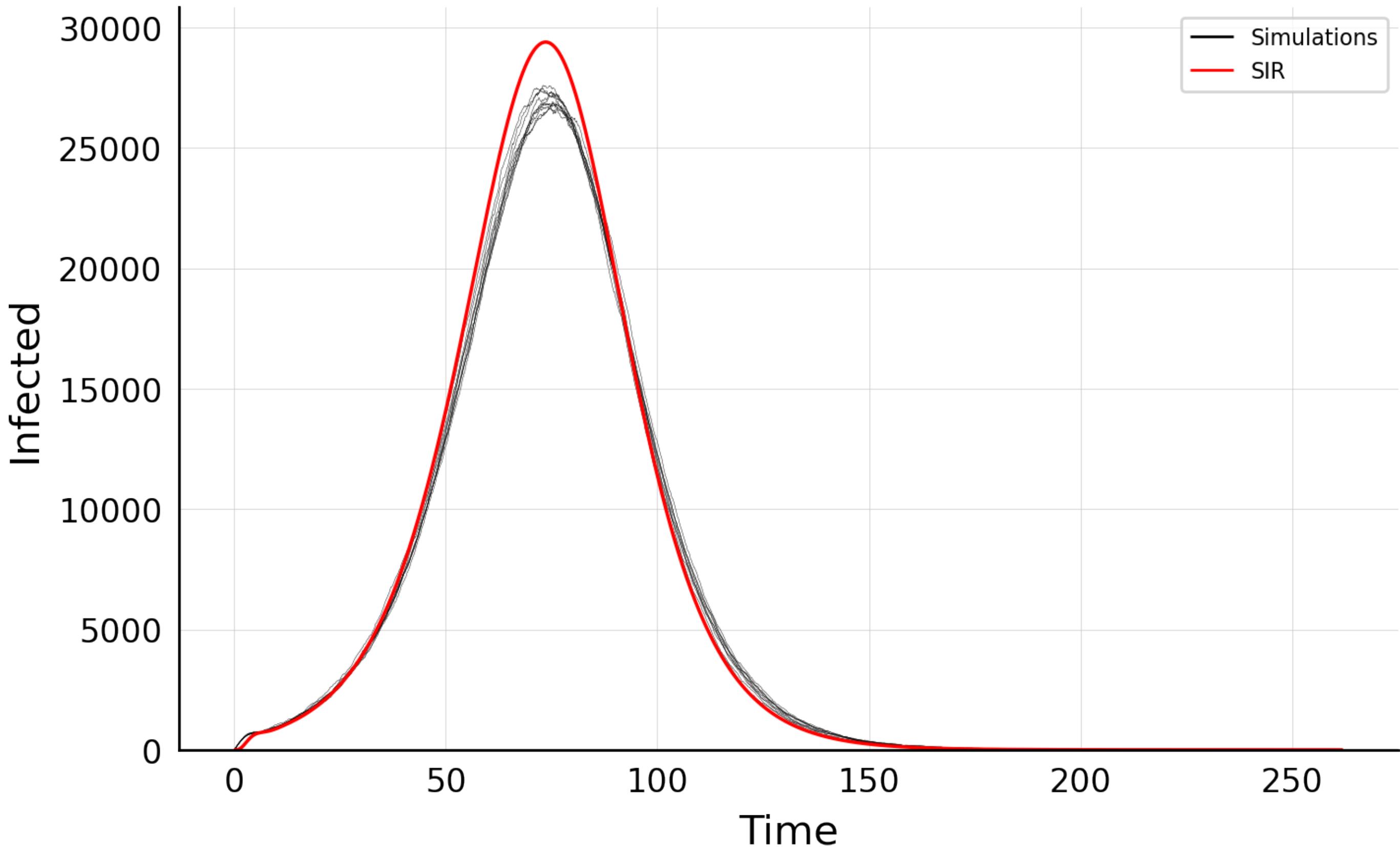
$N_{\text{tot}} = 5.8M$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 50.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



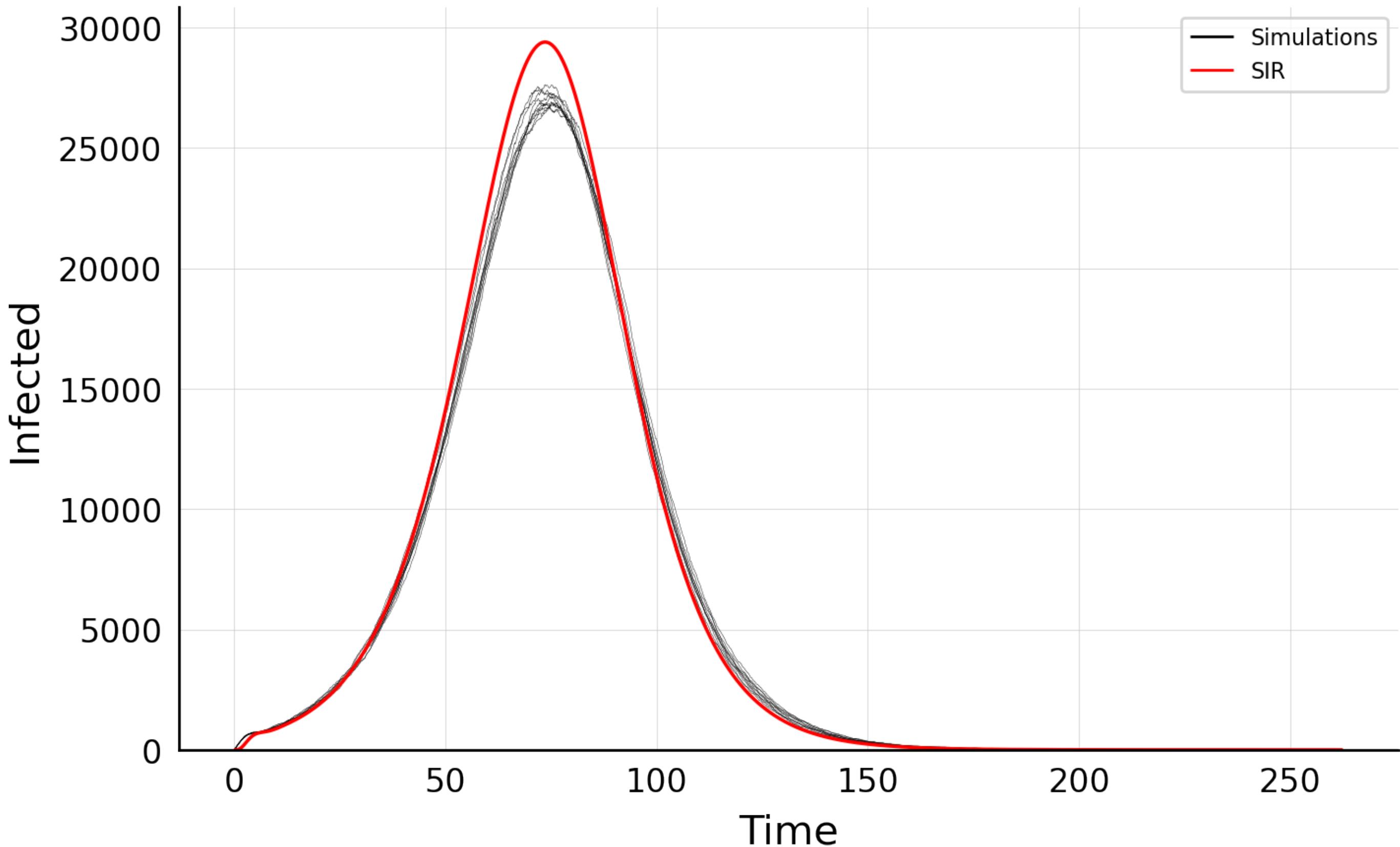
$N_{\text{tot}} = 5.8M$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 75.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



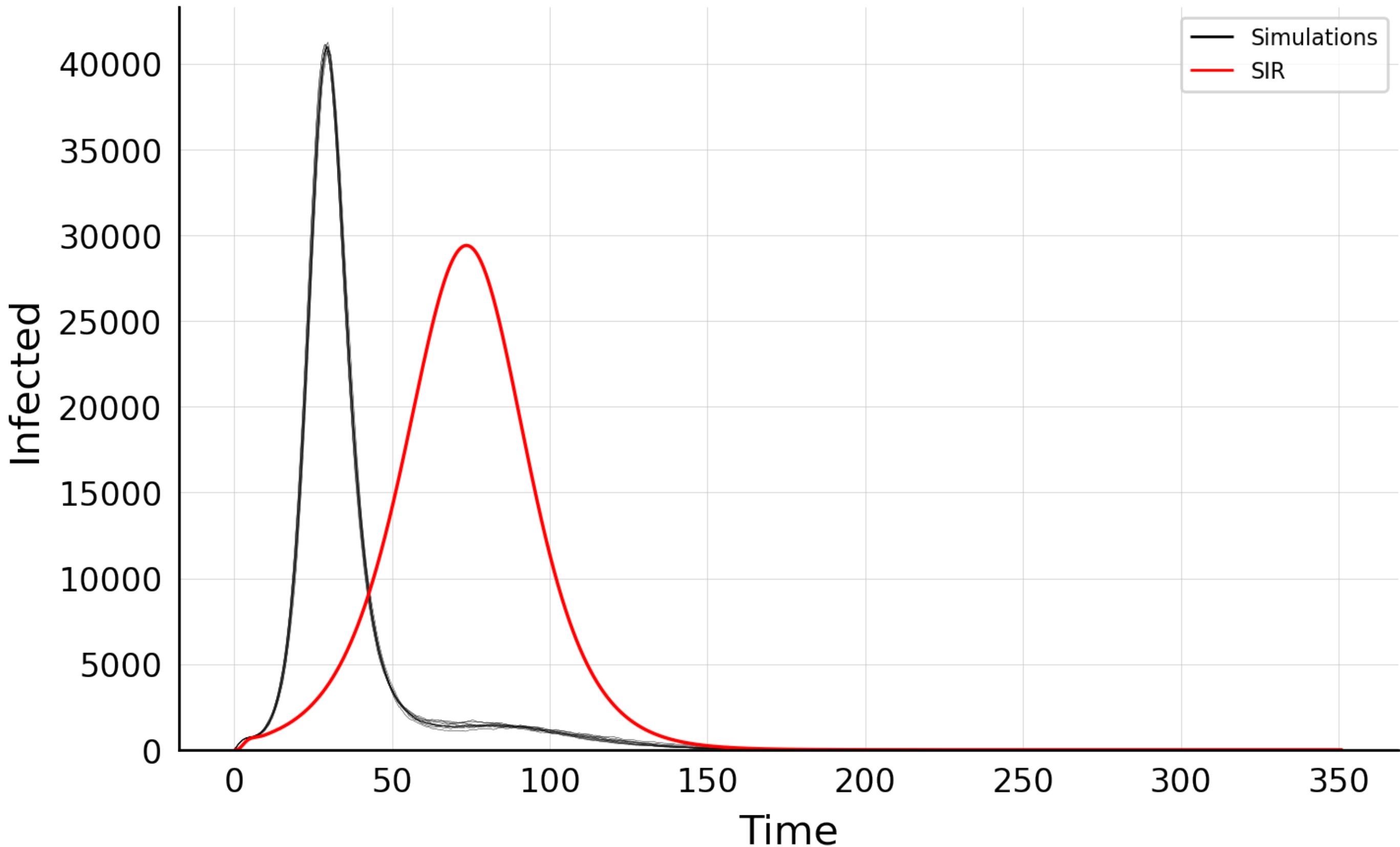
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 1K$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 1$ ,  $\#10$



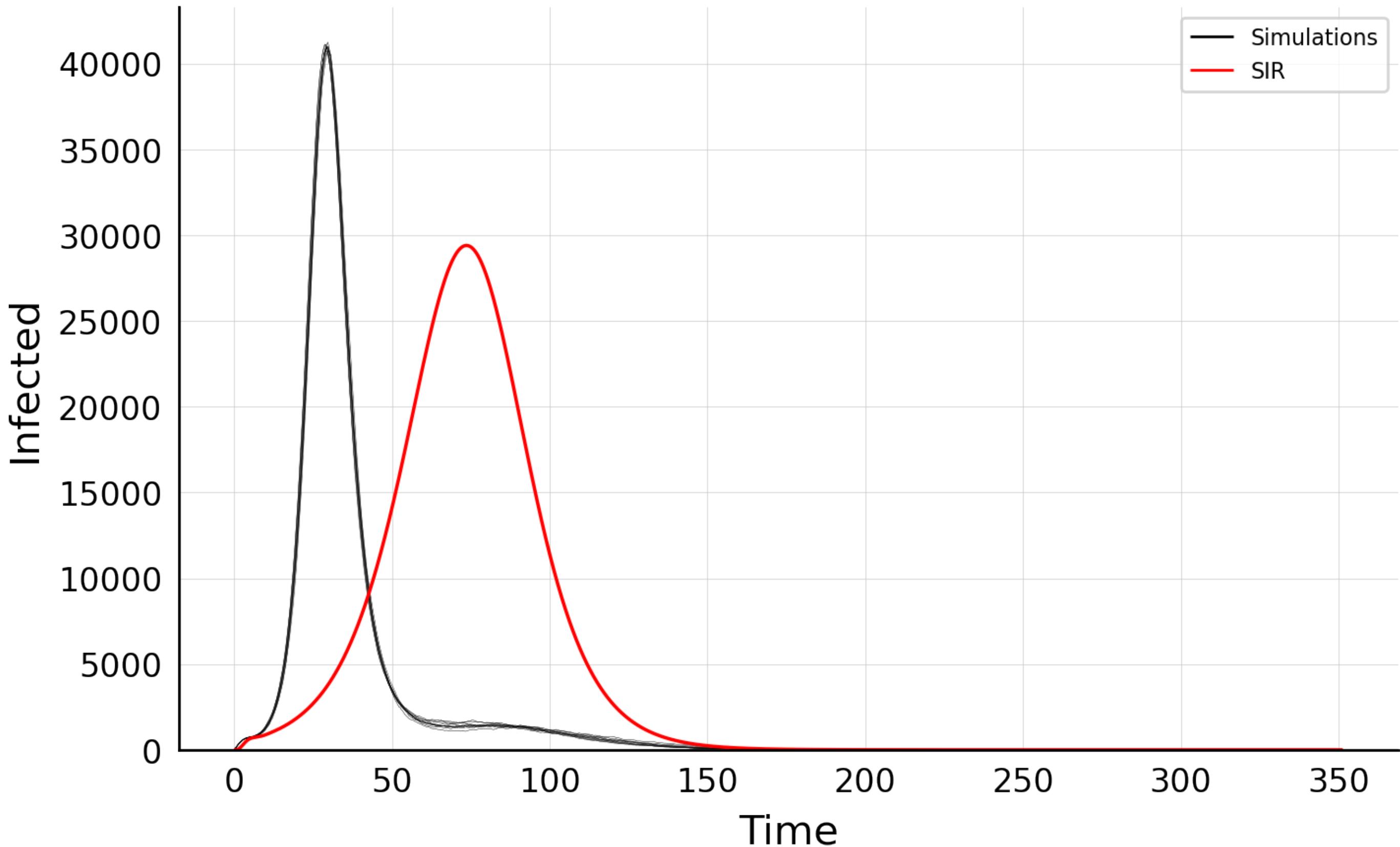
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 1K$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ ,  $\#10$



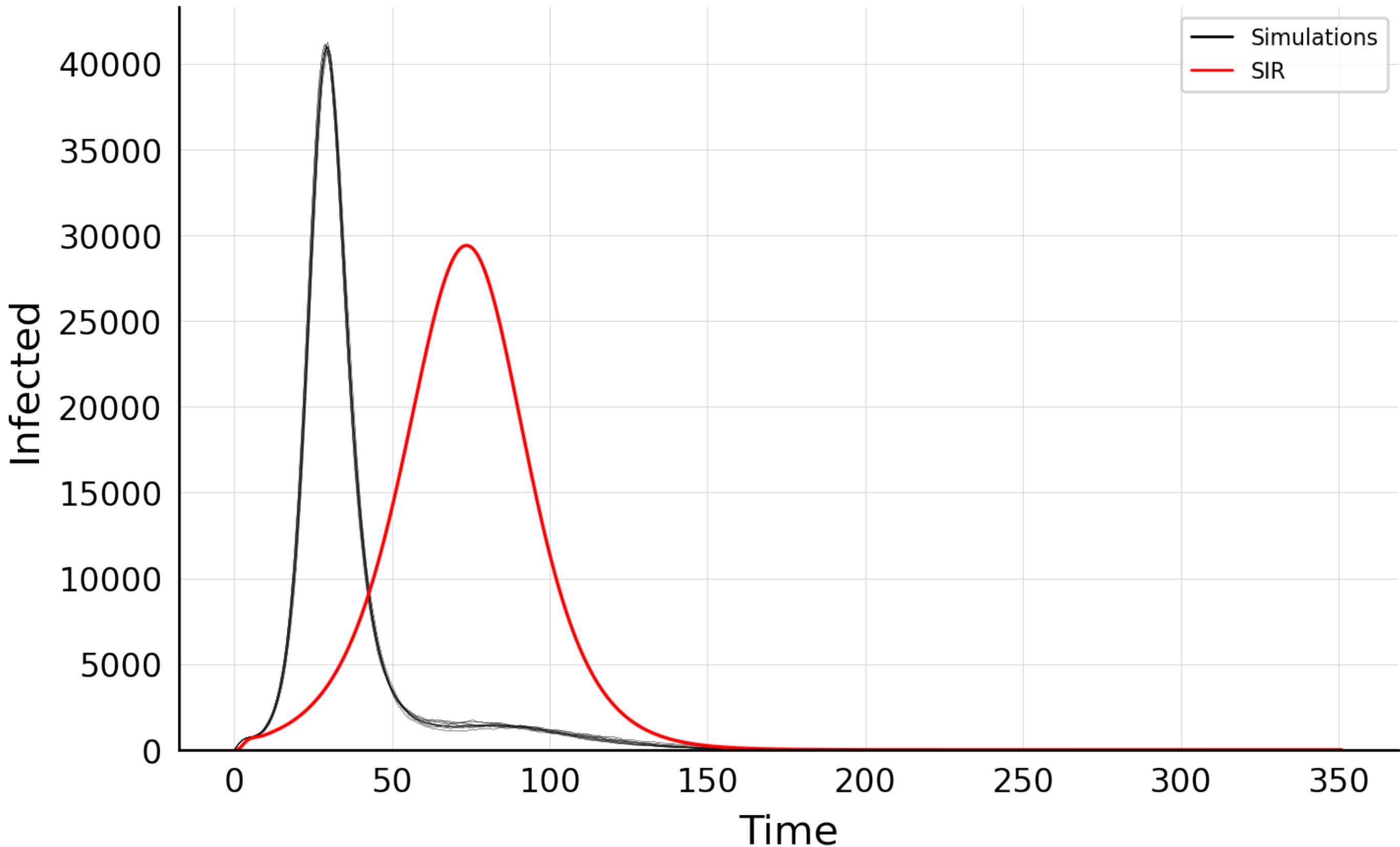
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 1K$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 100.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.0$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



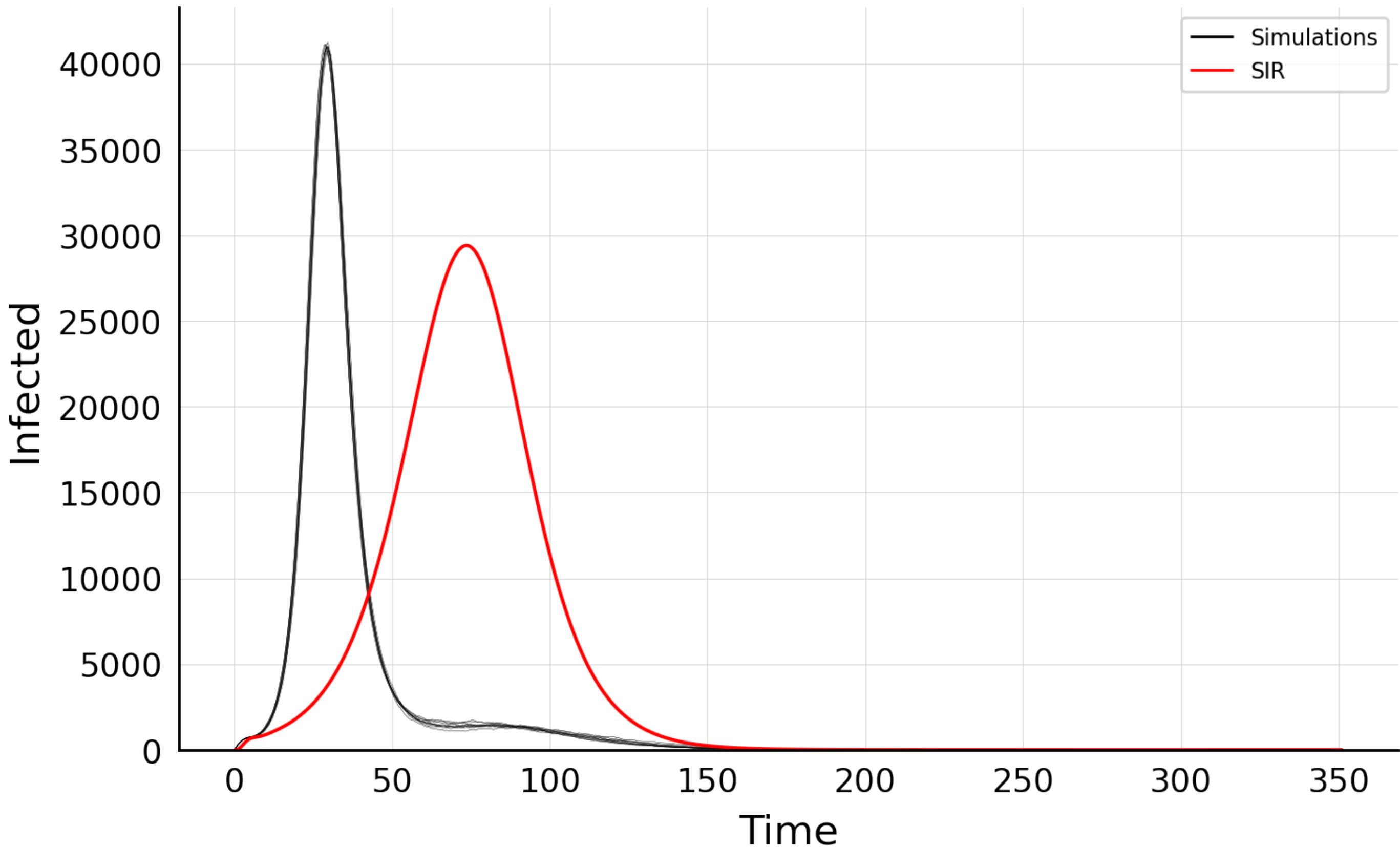
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 1K$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 100.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.0$ ,  $\beta_{\text{scaling}} = 100.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



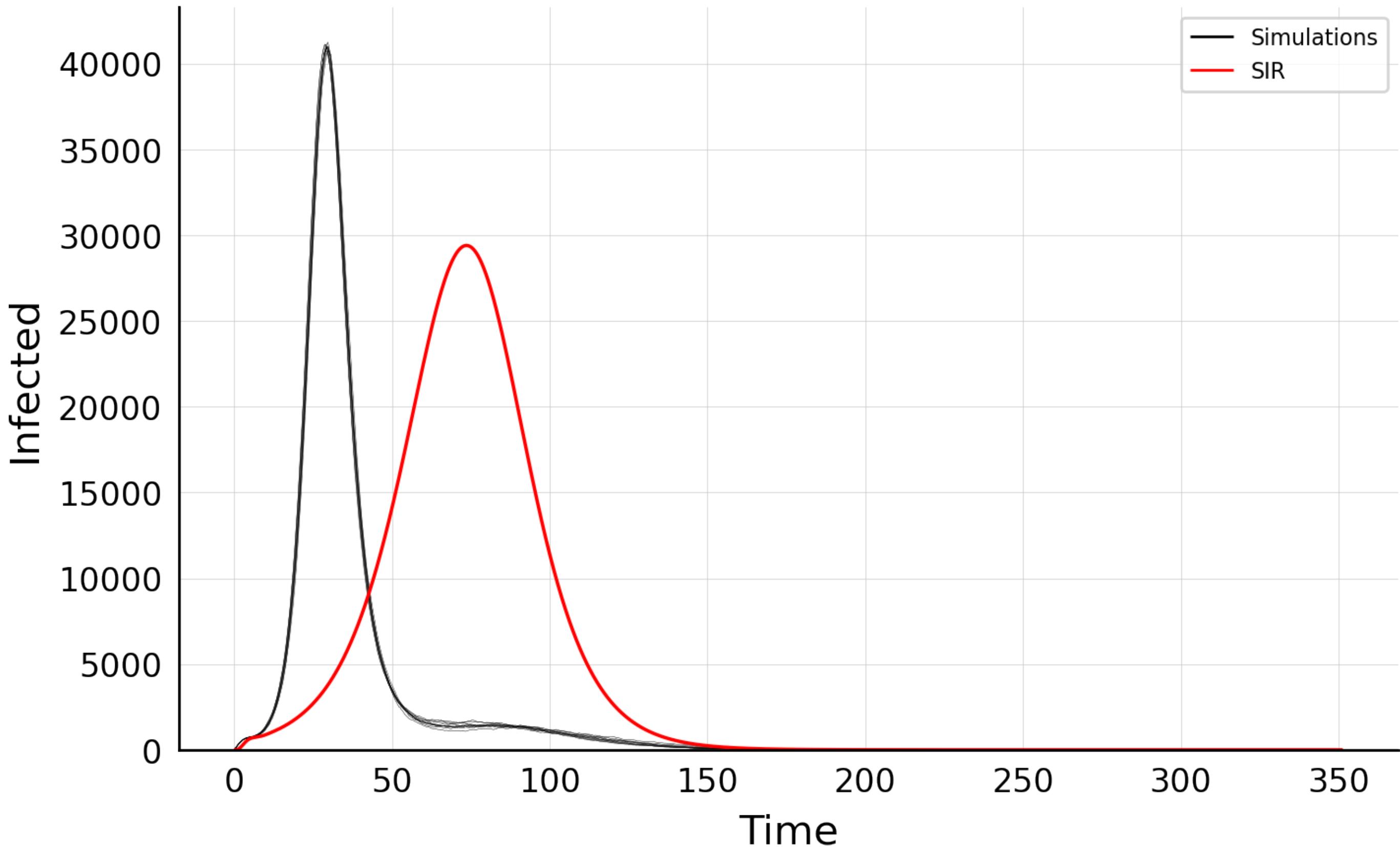
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 1K$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 100.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.0$ ,  $\beta_{\text{scaling}} = 25.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



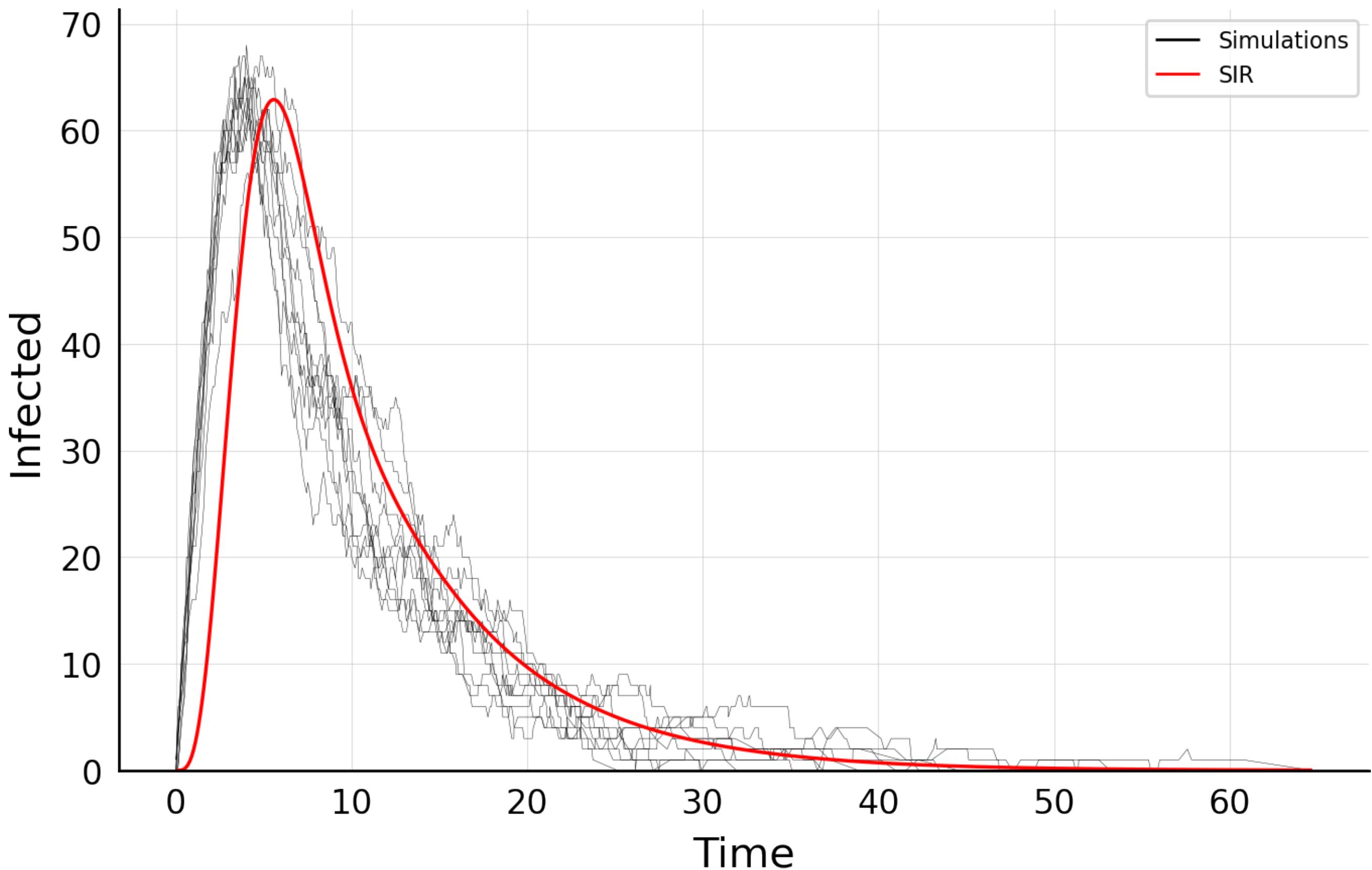
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 1K$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 100.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.0$ ,  $\beta_{\text{scaling}} = 50.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ ,  $\#10$



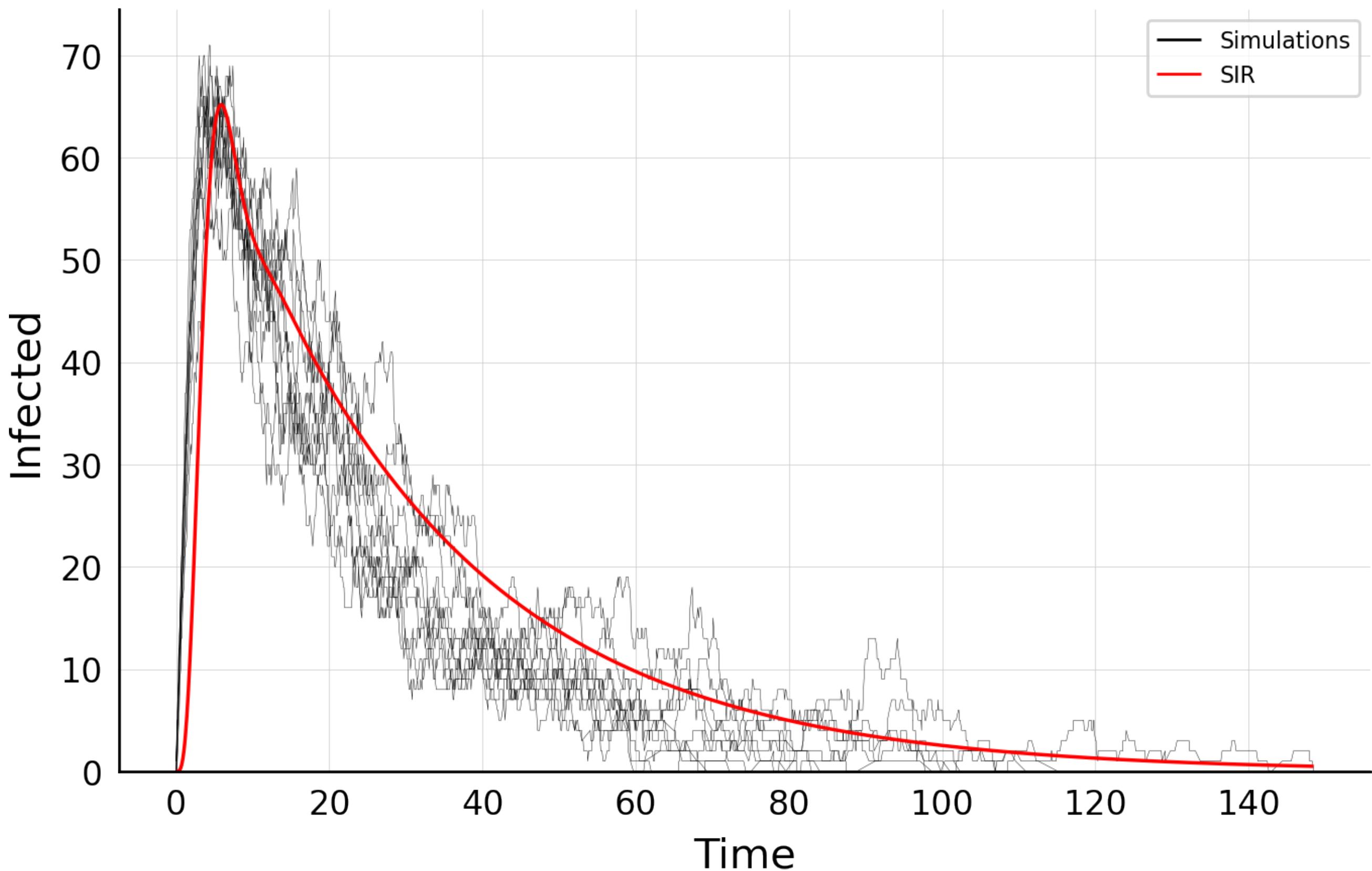
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 1K$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 100.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.0$ ,  $\beta_{\text{scaling}} = 75.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



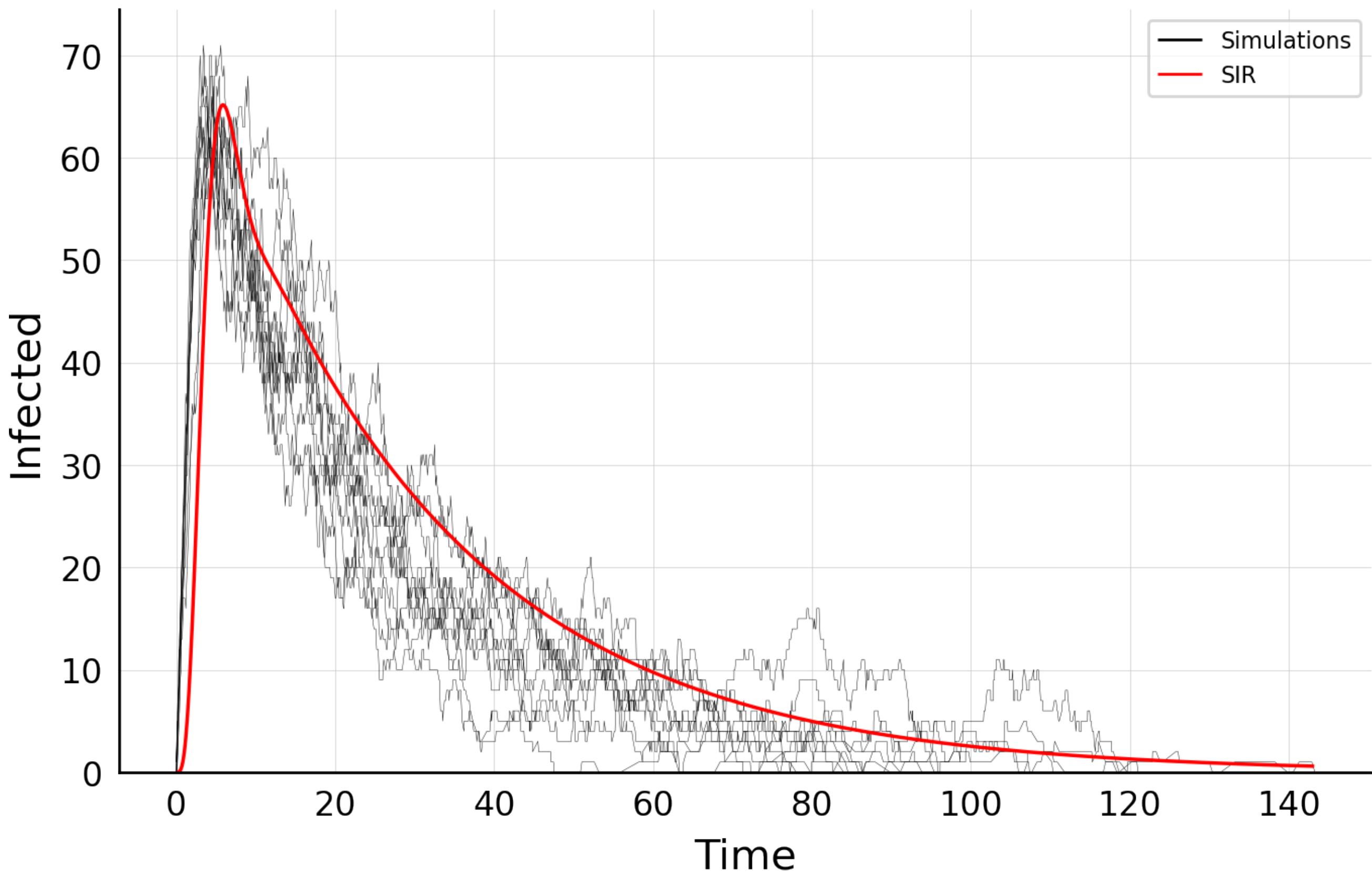
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 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ ,  $\#10$



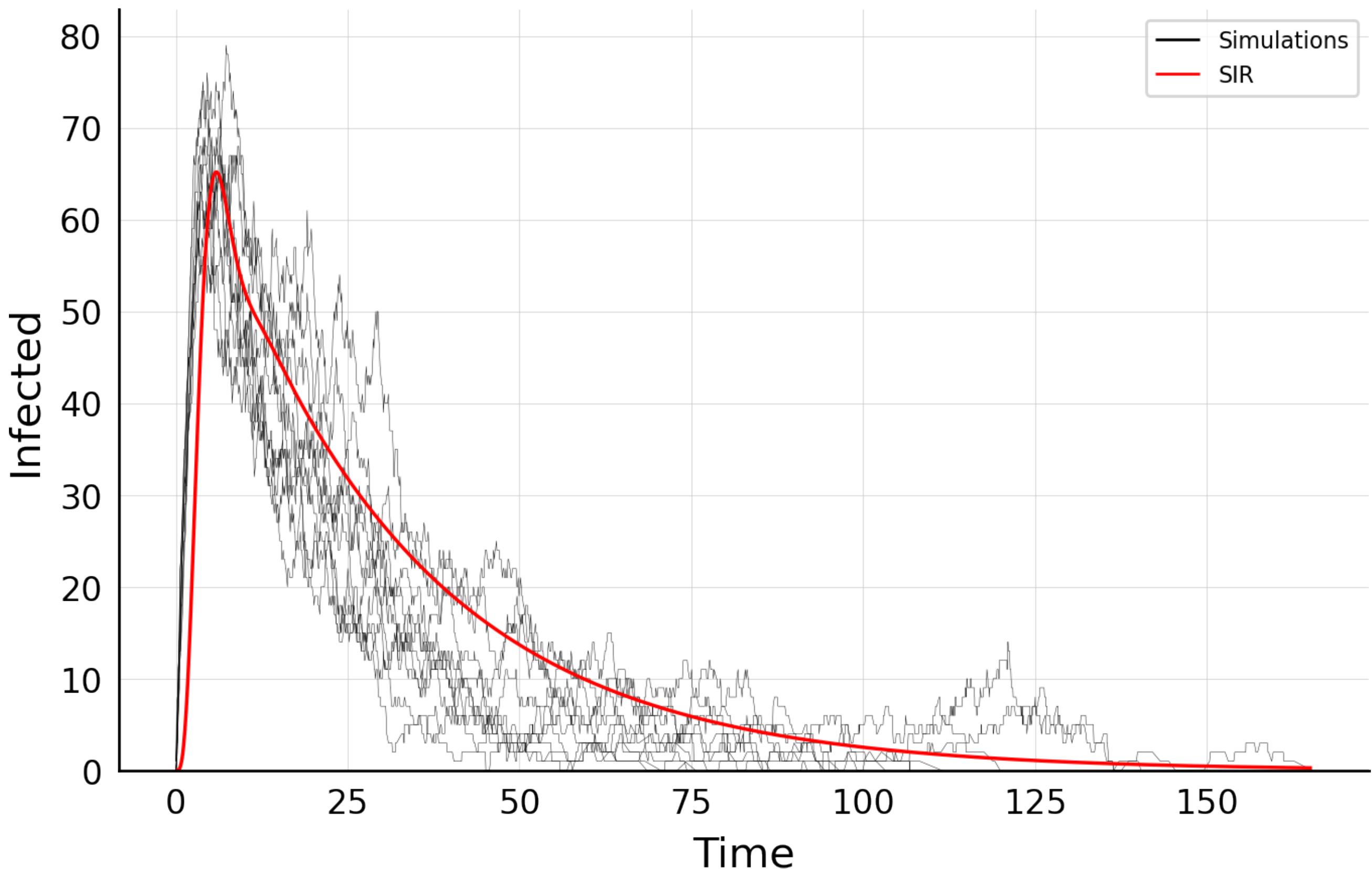
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 10.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.02$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 1$ ,  $\#10$



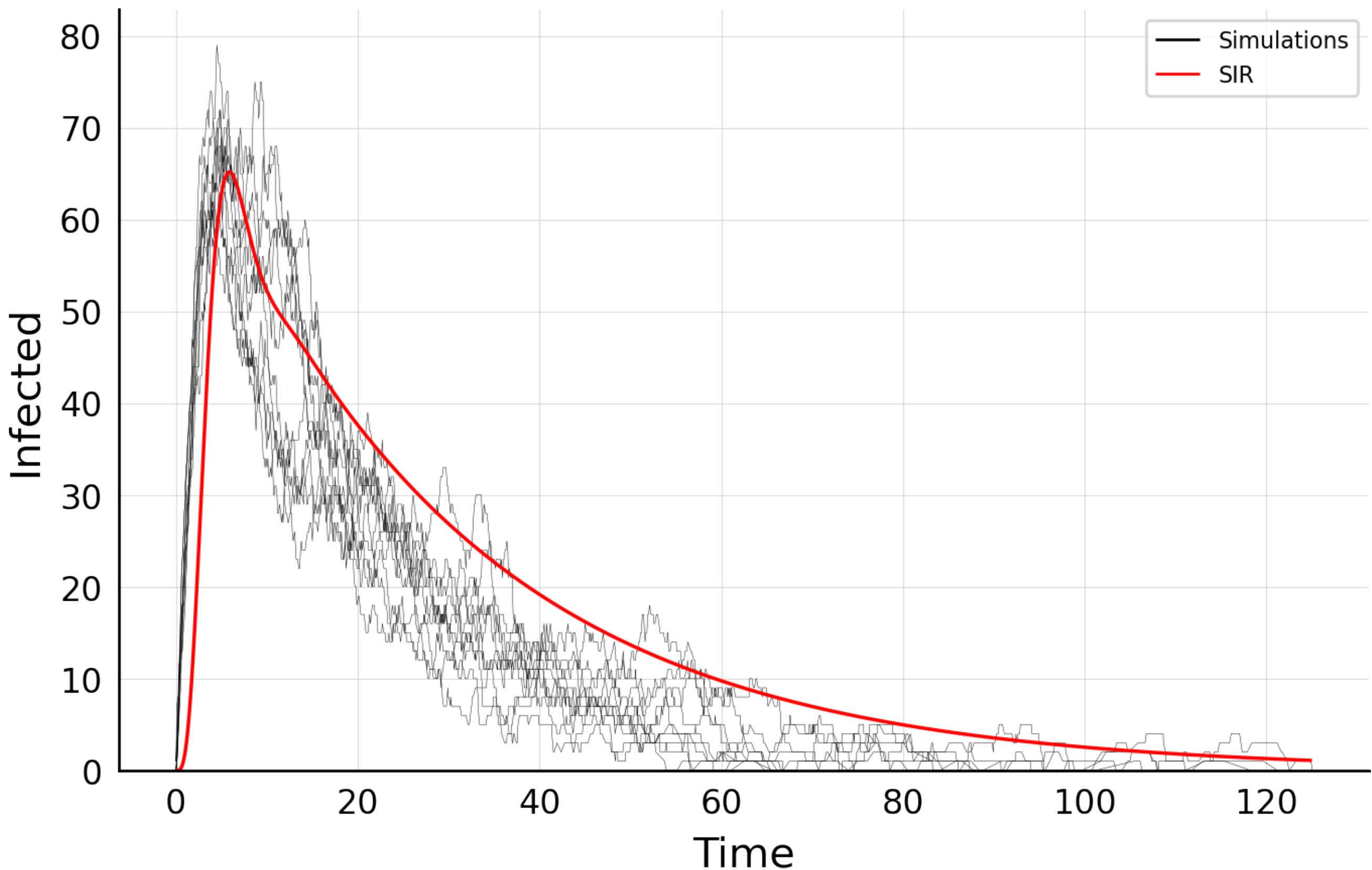
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 10.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.02$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



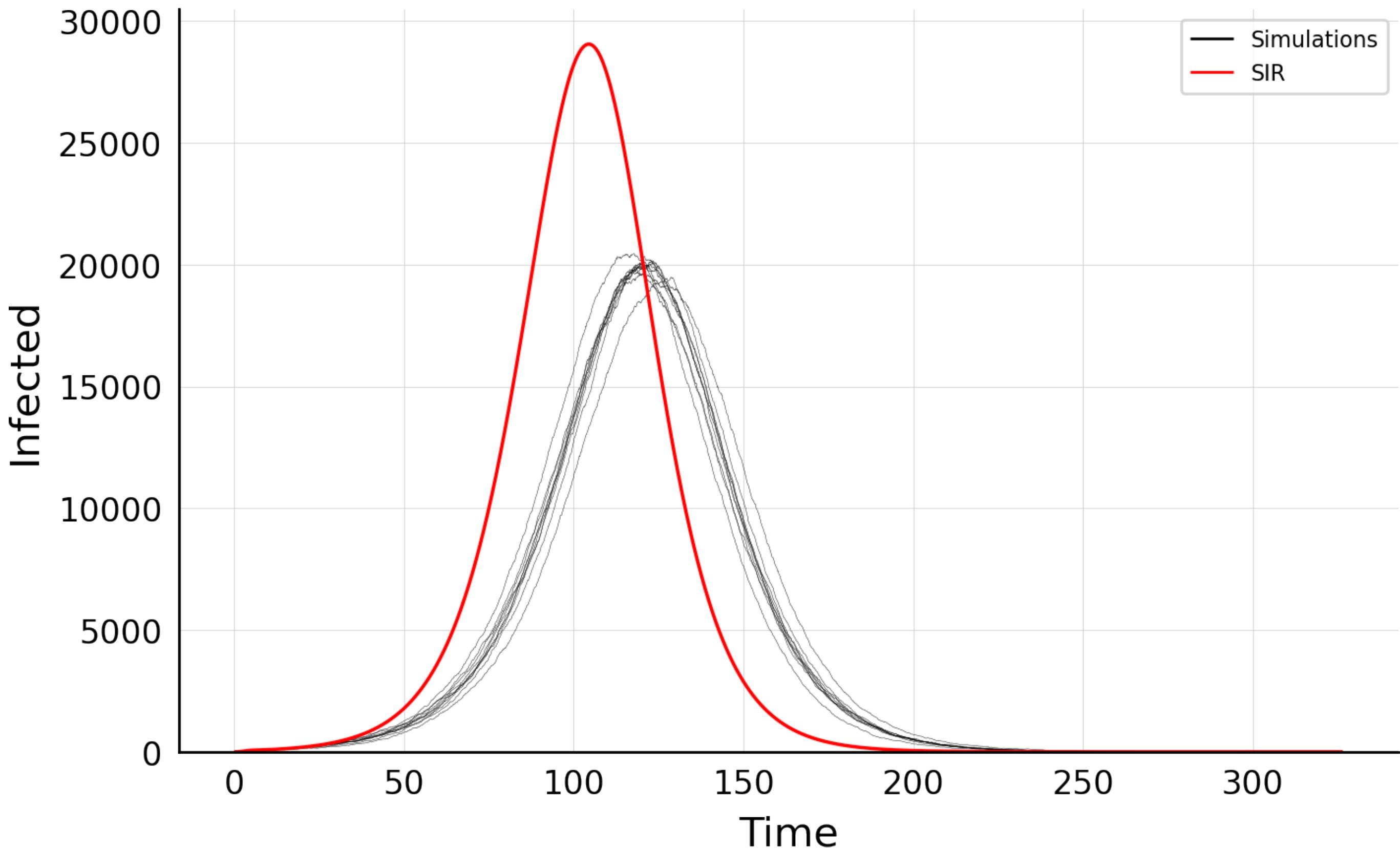
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 10.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.02$ ,  $\sigma_\beta = 1.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 1$ ,  $\#10$



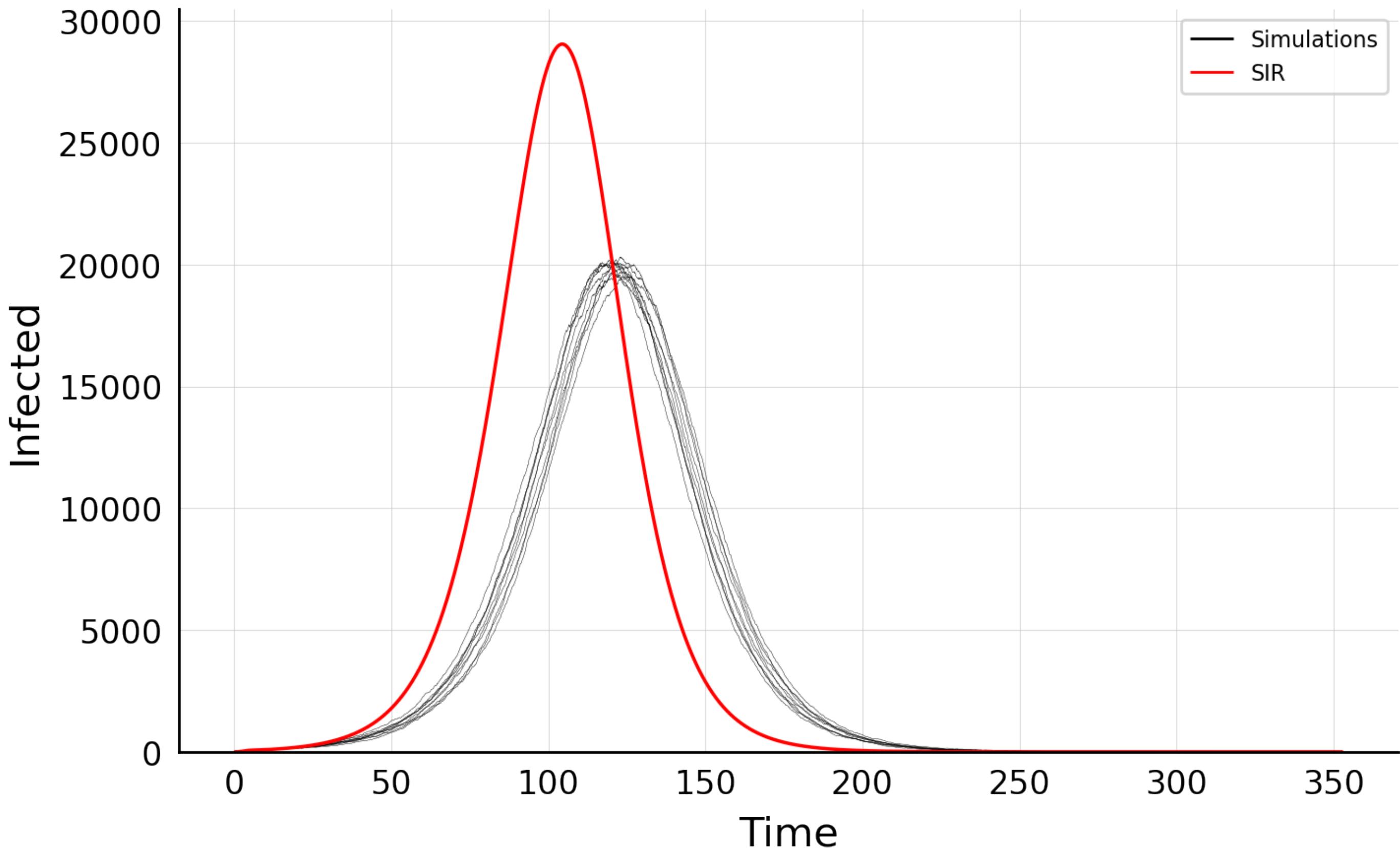
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 10.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.02$ ,  $\sigma_\beta = 1.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



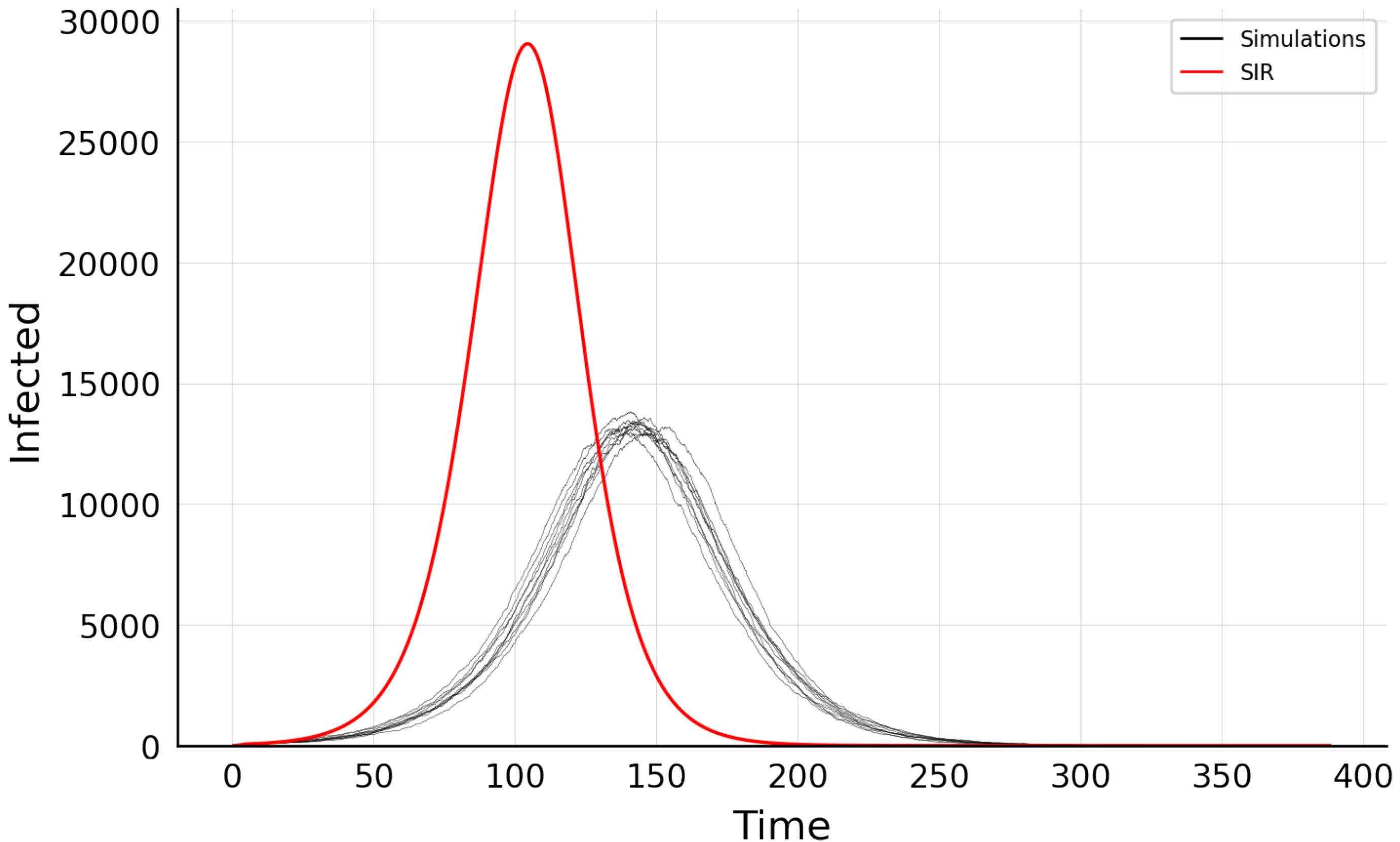
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 10.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.04$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 1$ ,  $\#10$



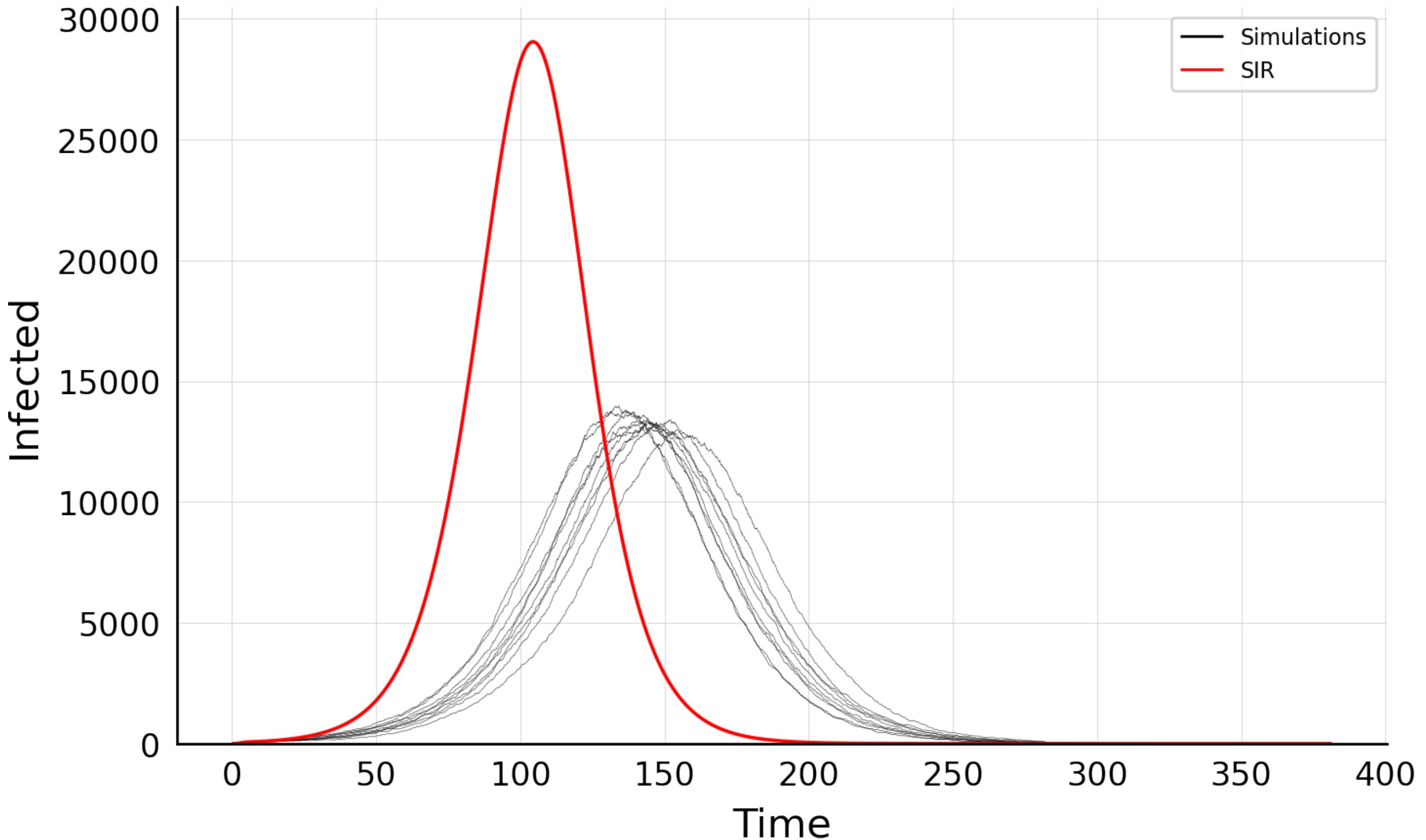
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 10.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.04$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



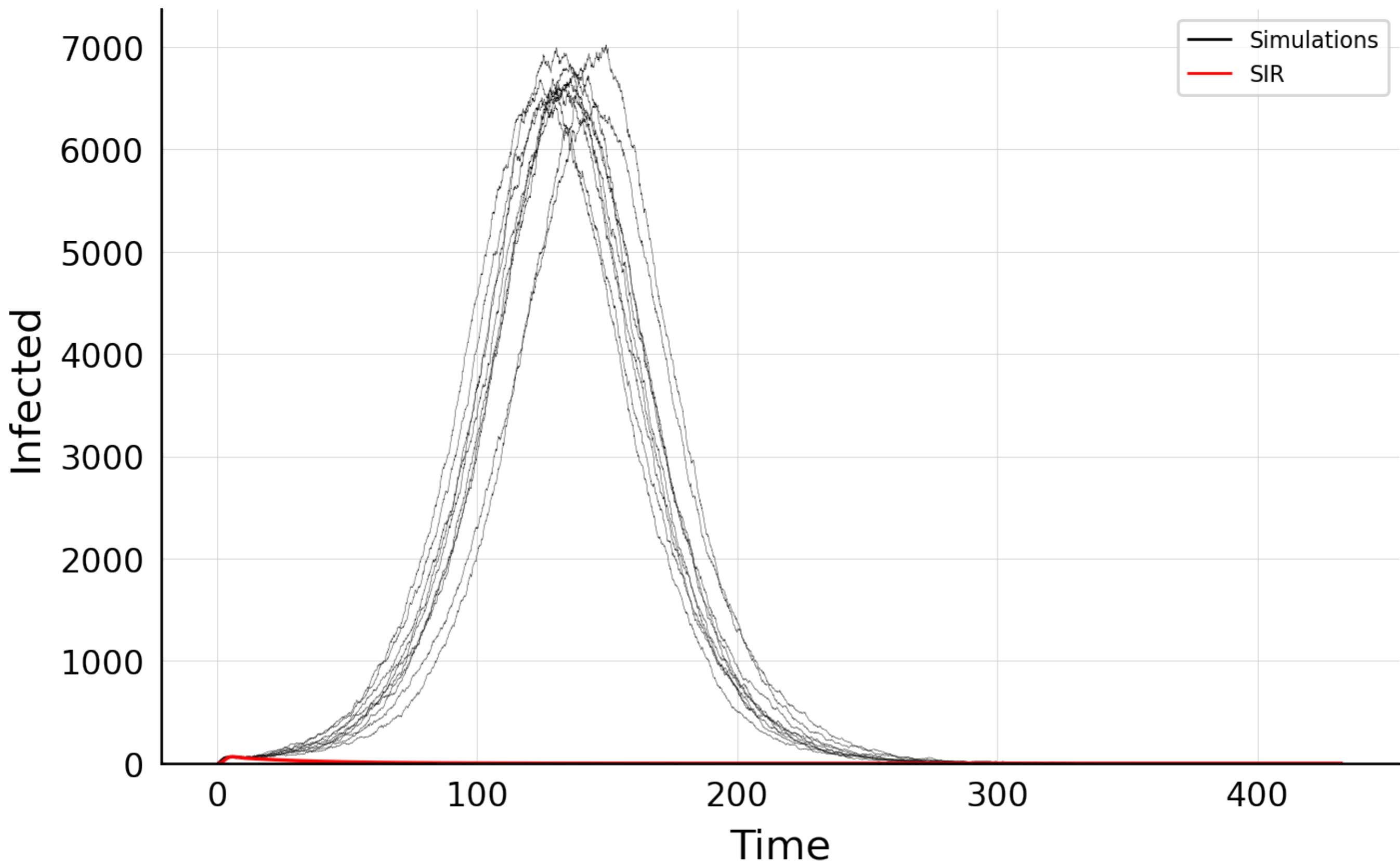
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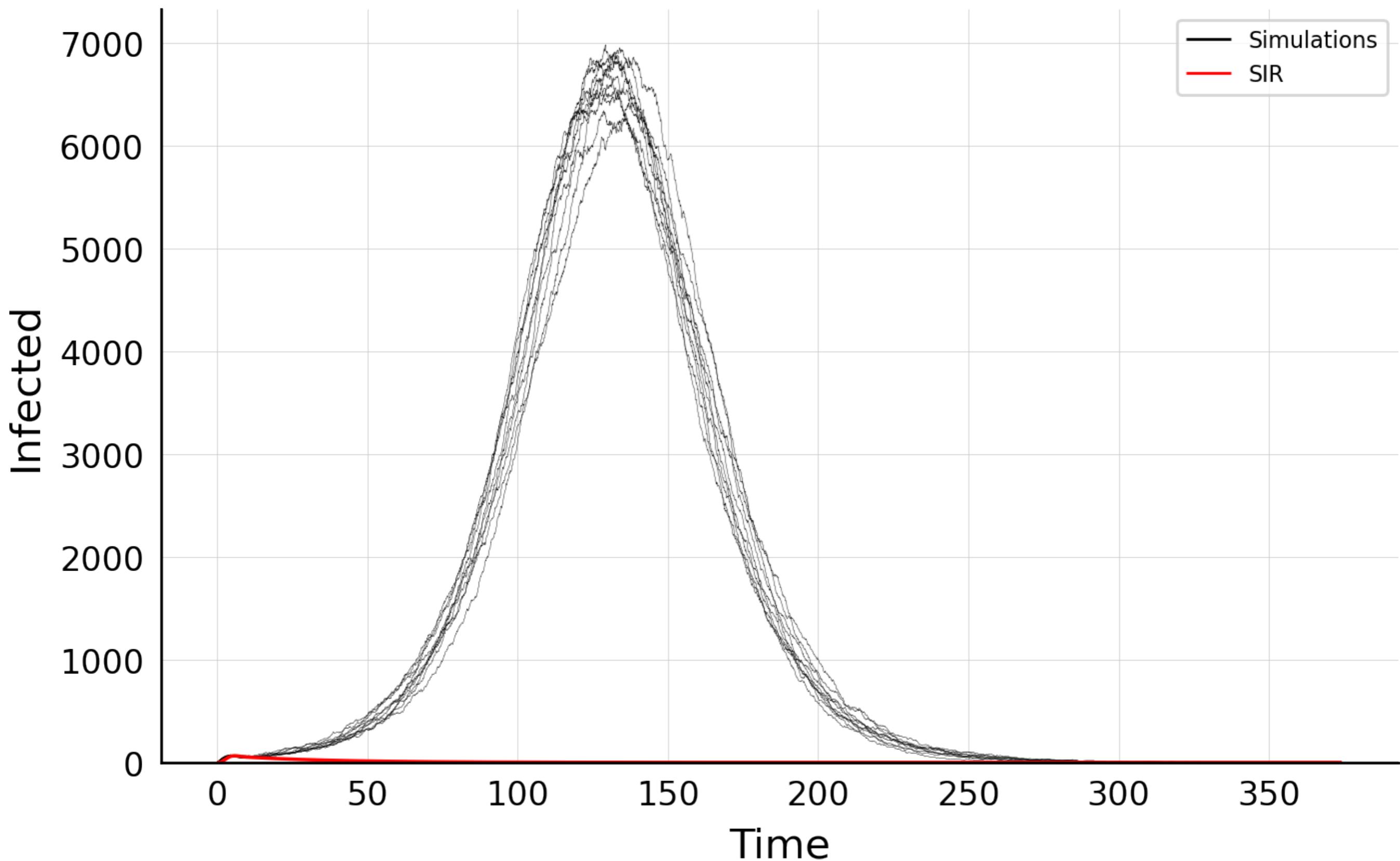
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 10.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.04$ ,  $\sigma_\beta = 1.0$ ,  $\rho = 0.0$   
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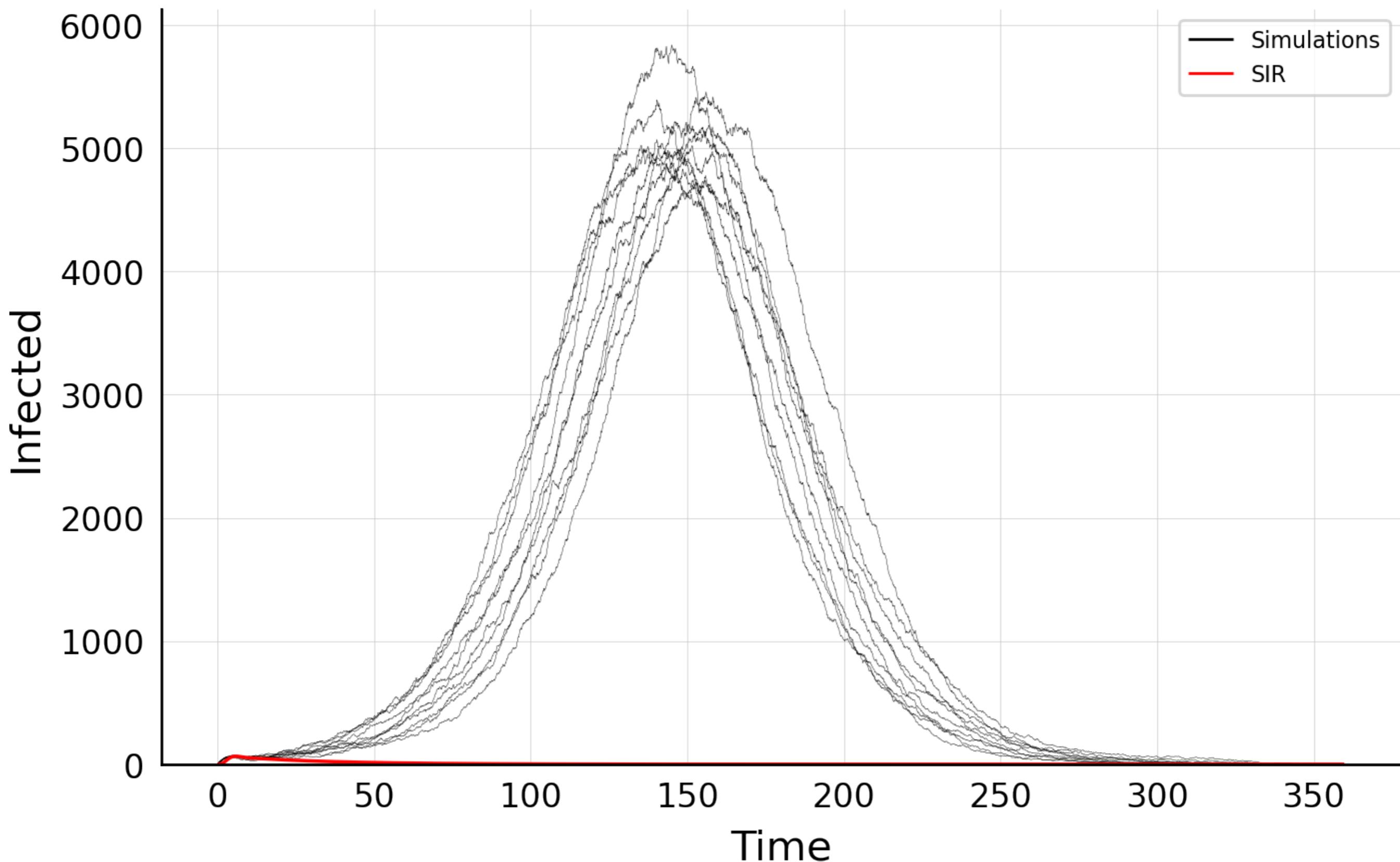
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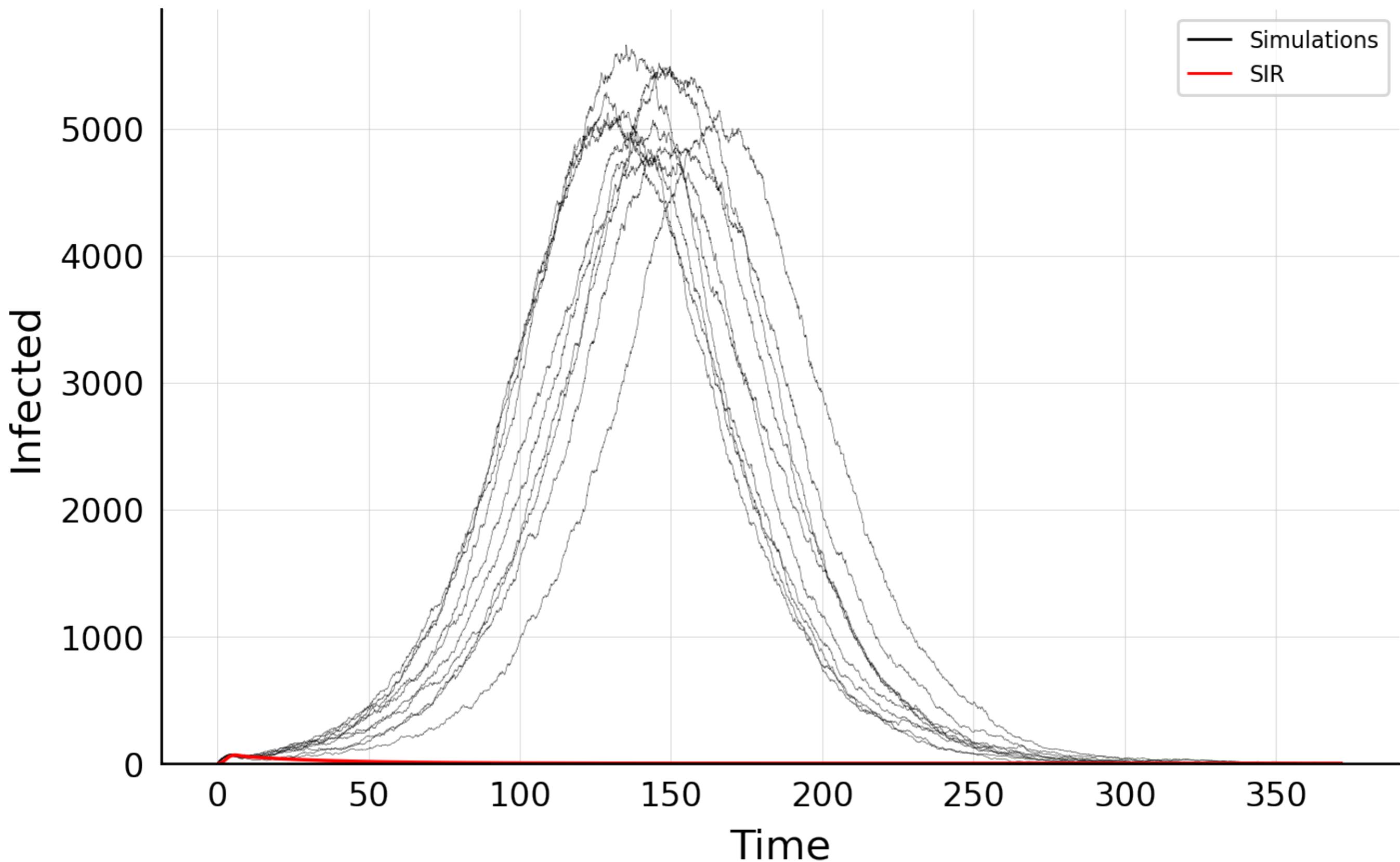
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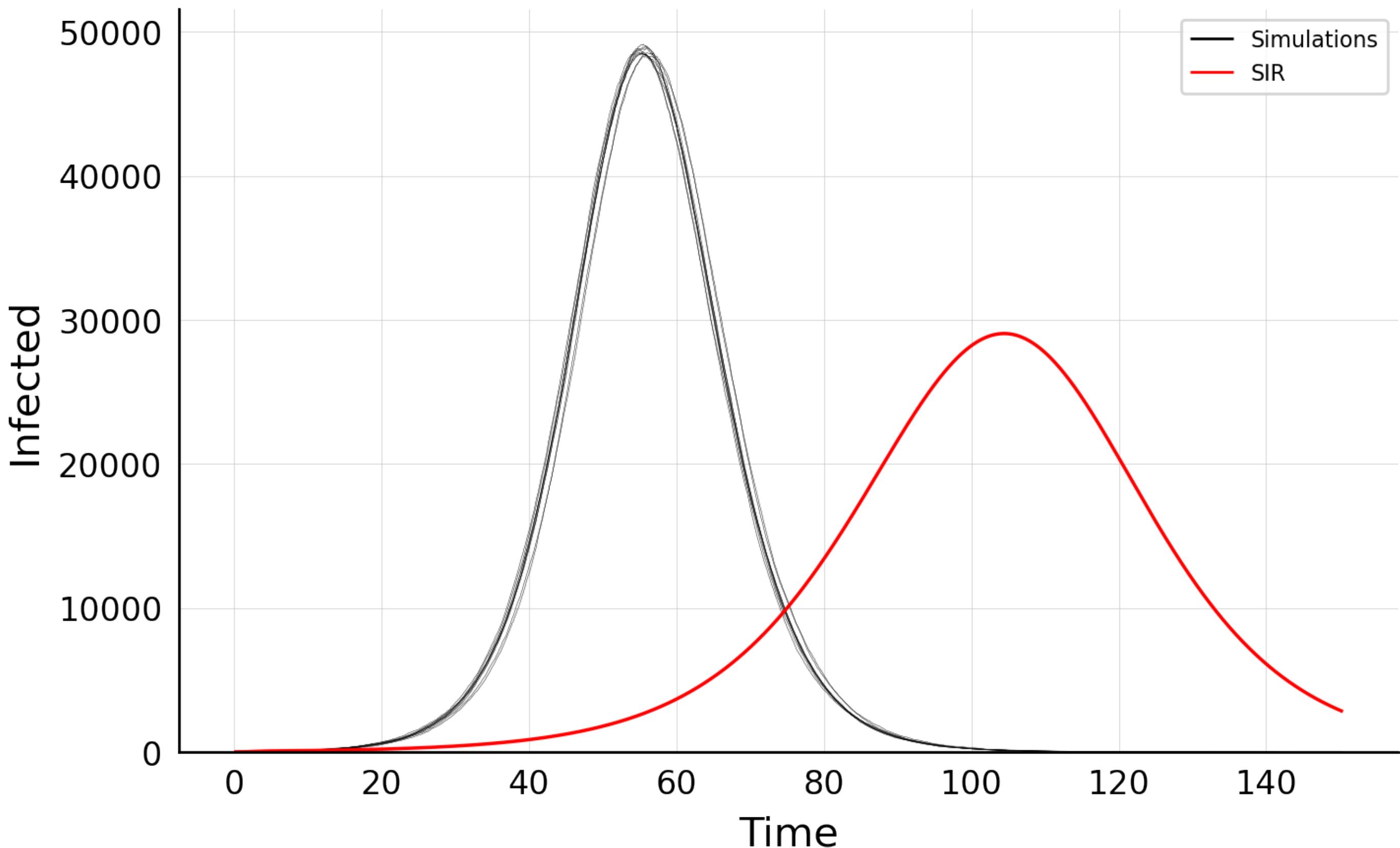
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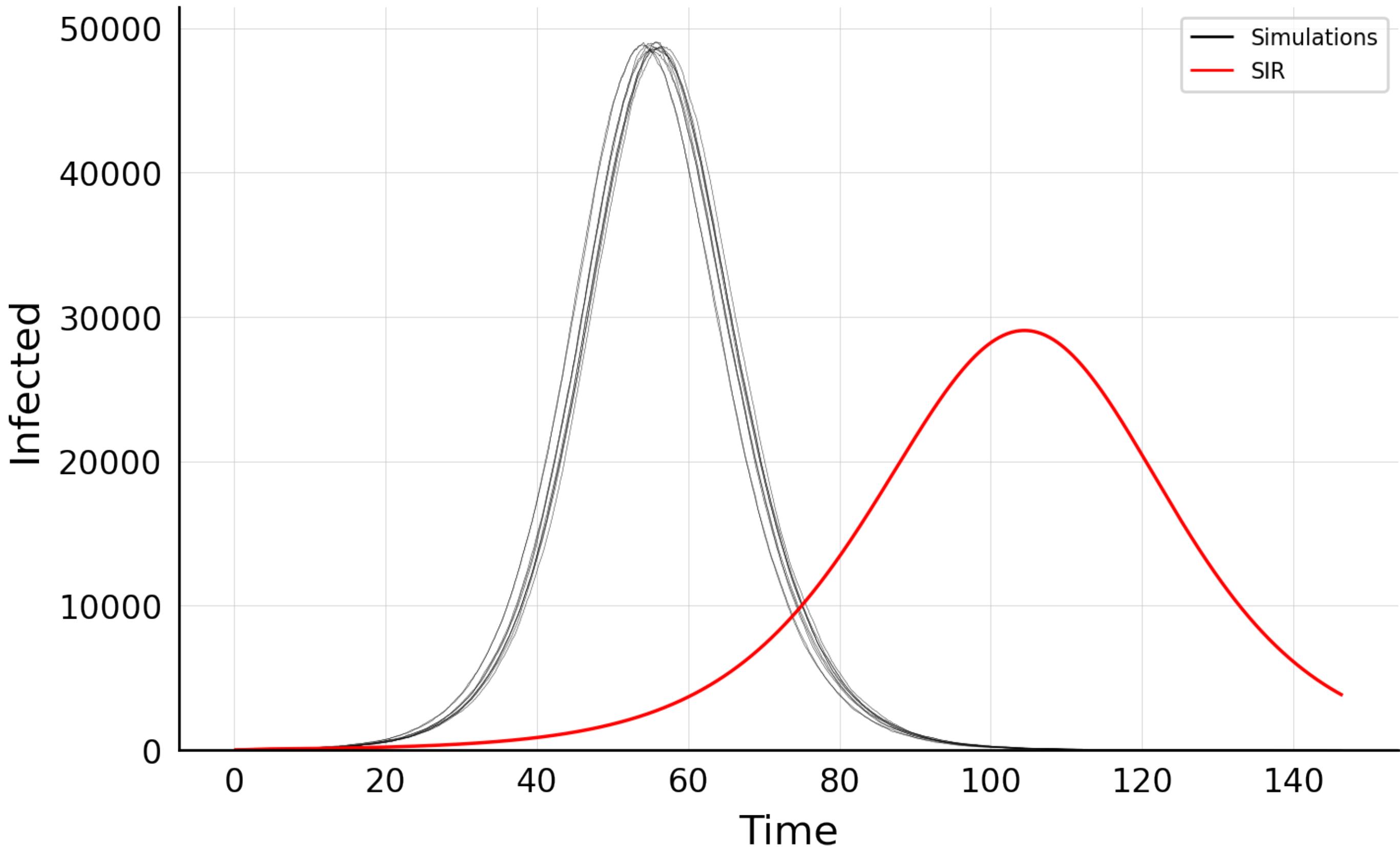
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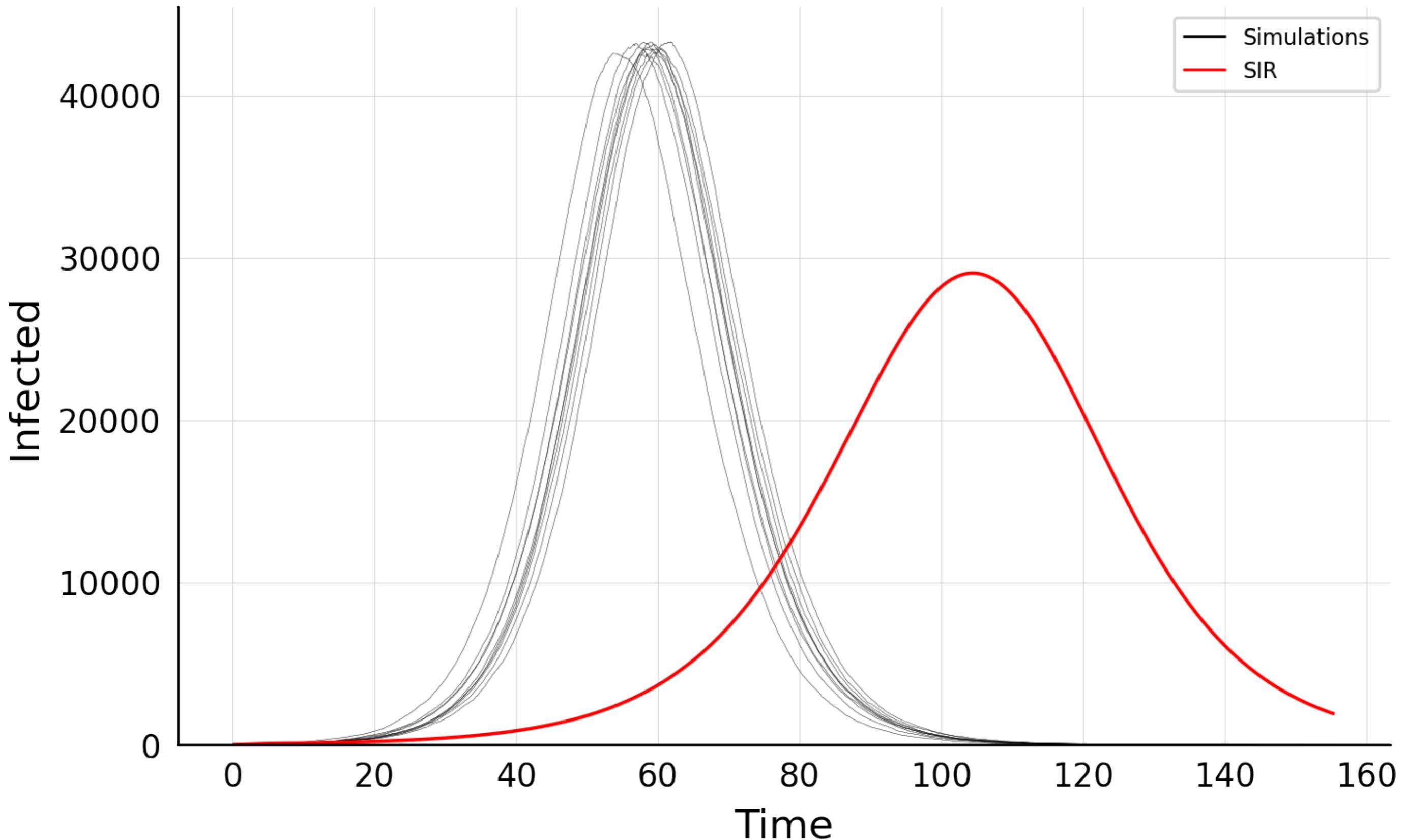
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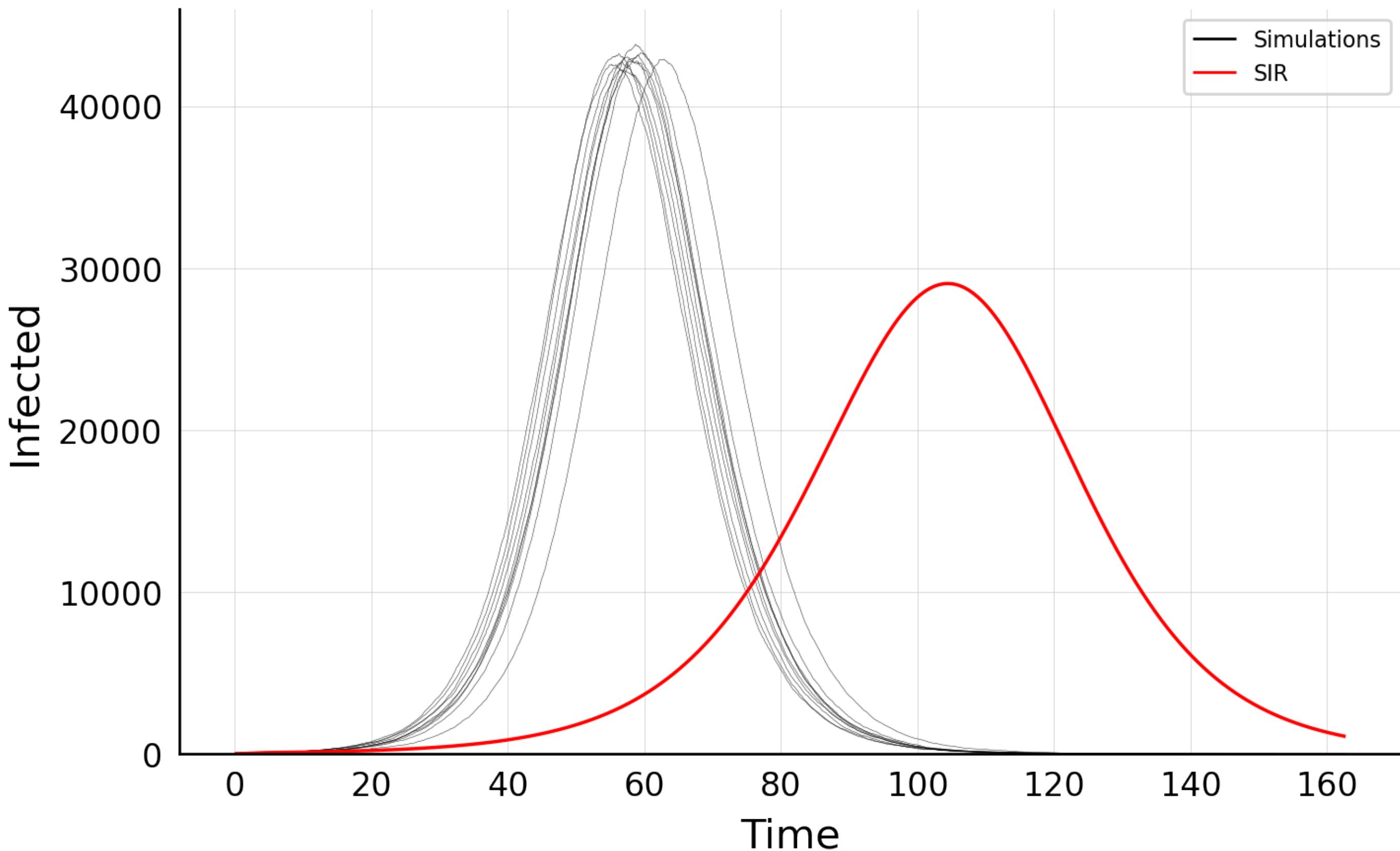
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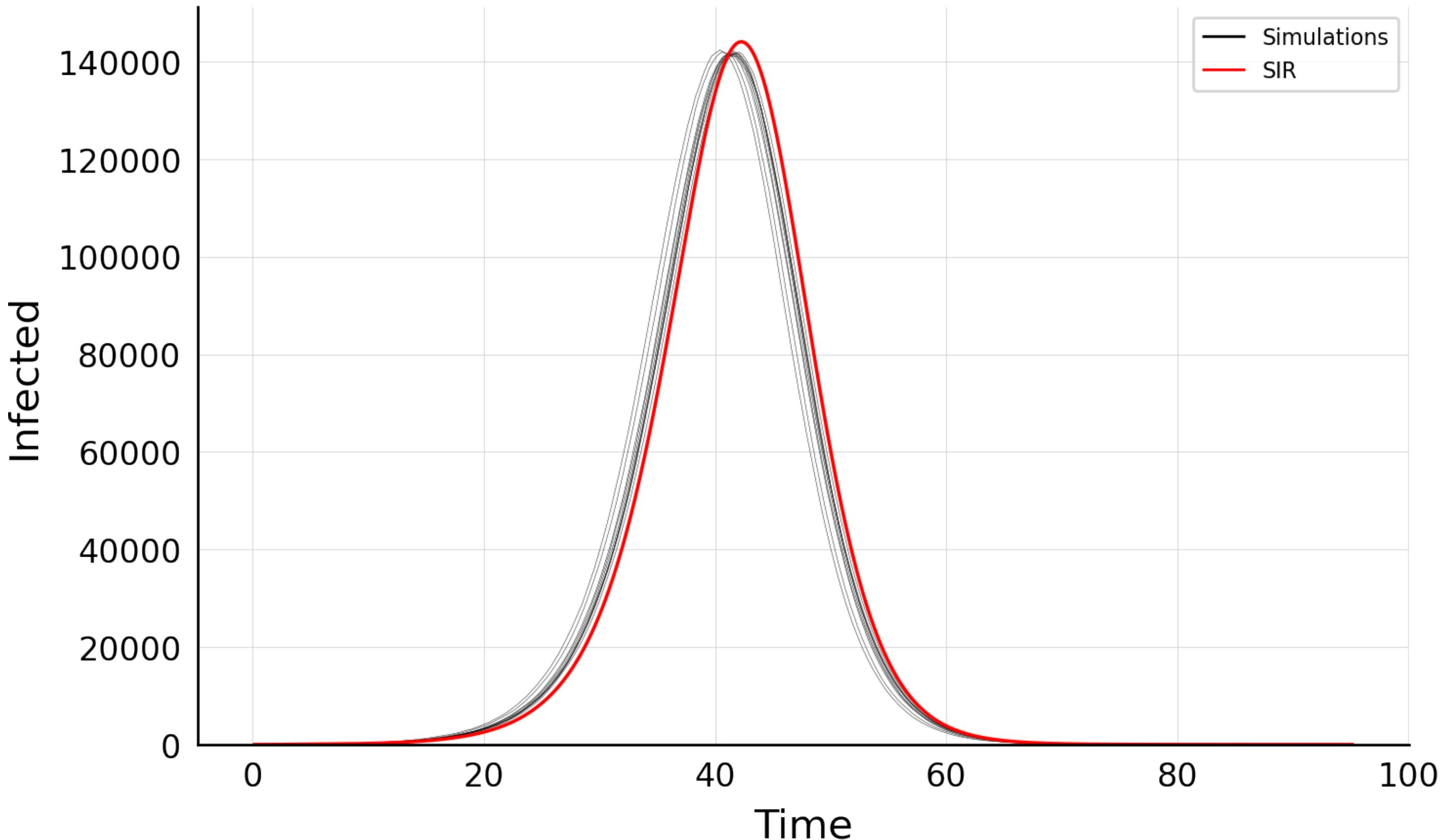
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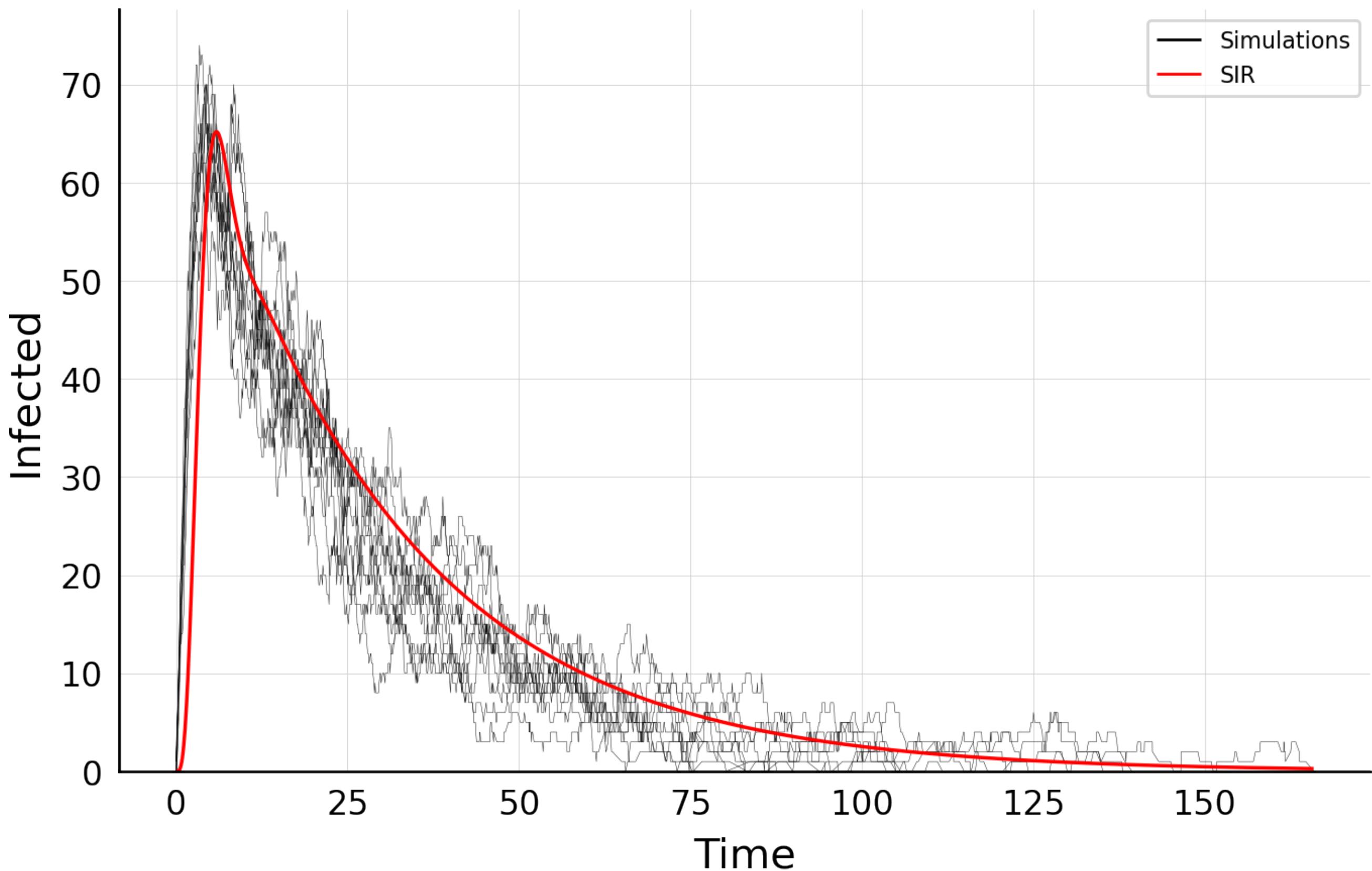
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 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



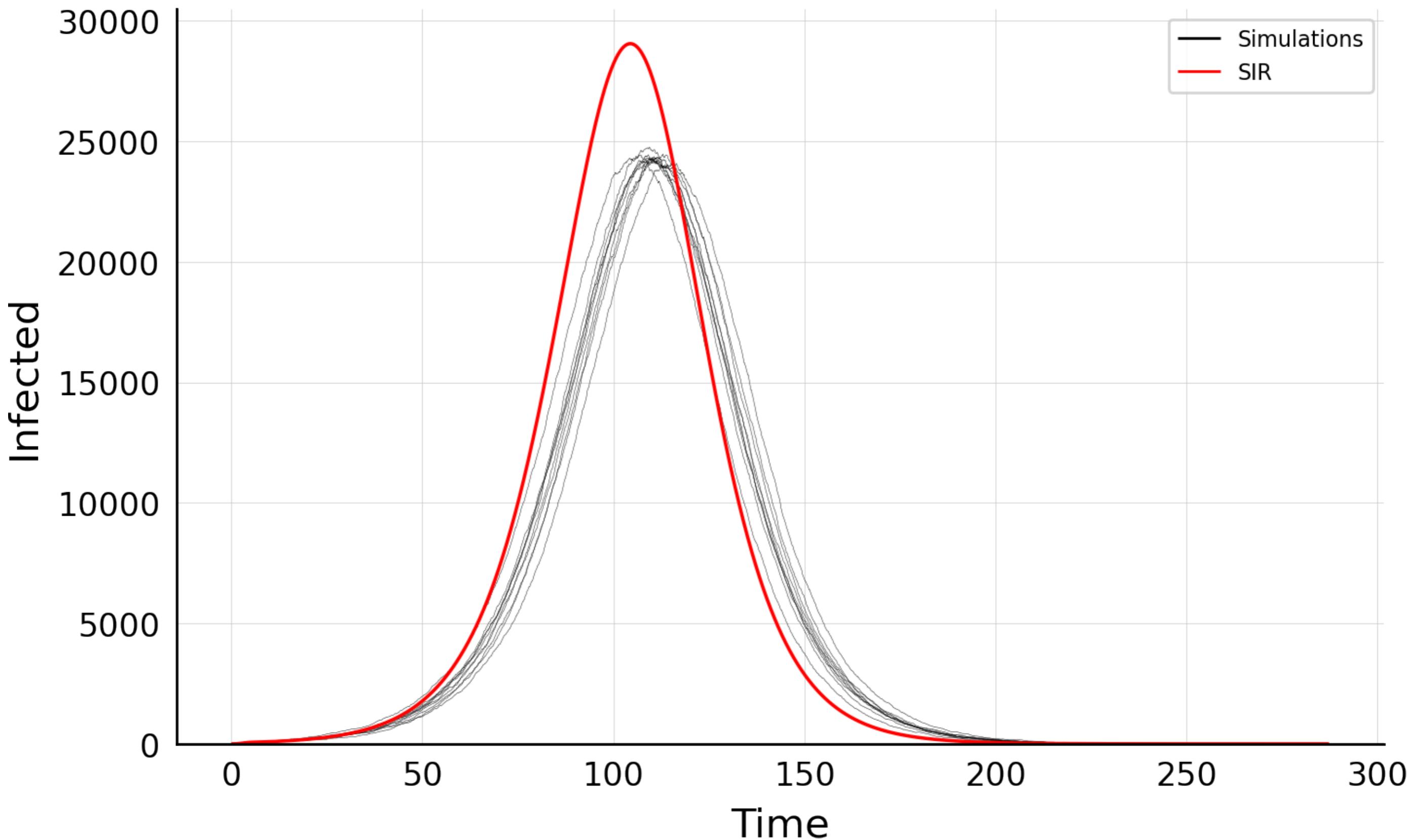
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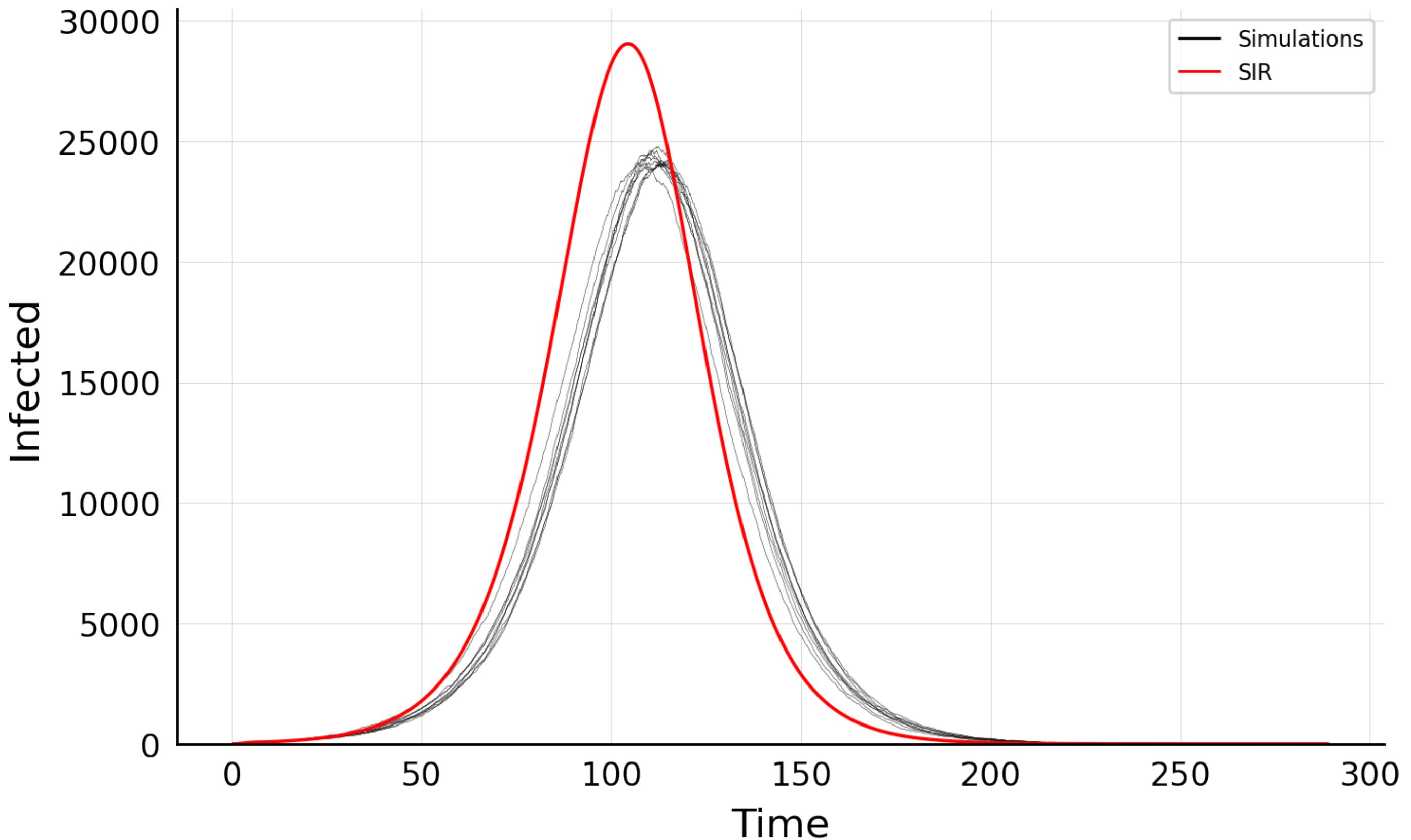
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 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ ,  $\#10$



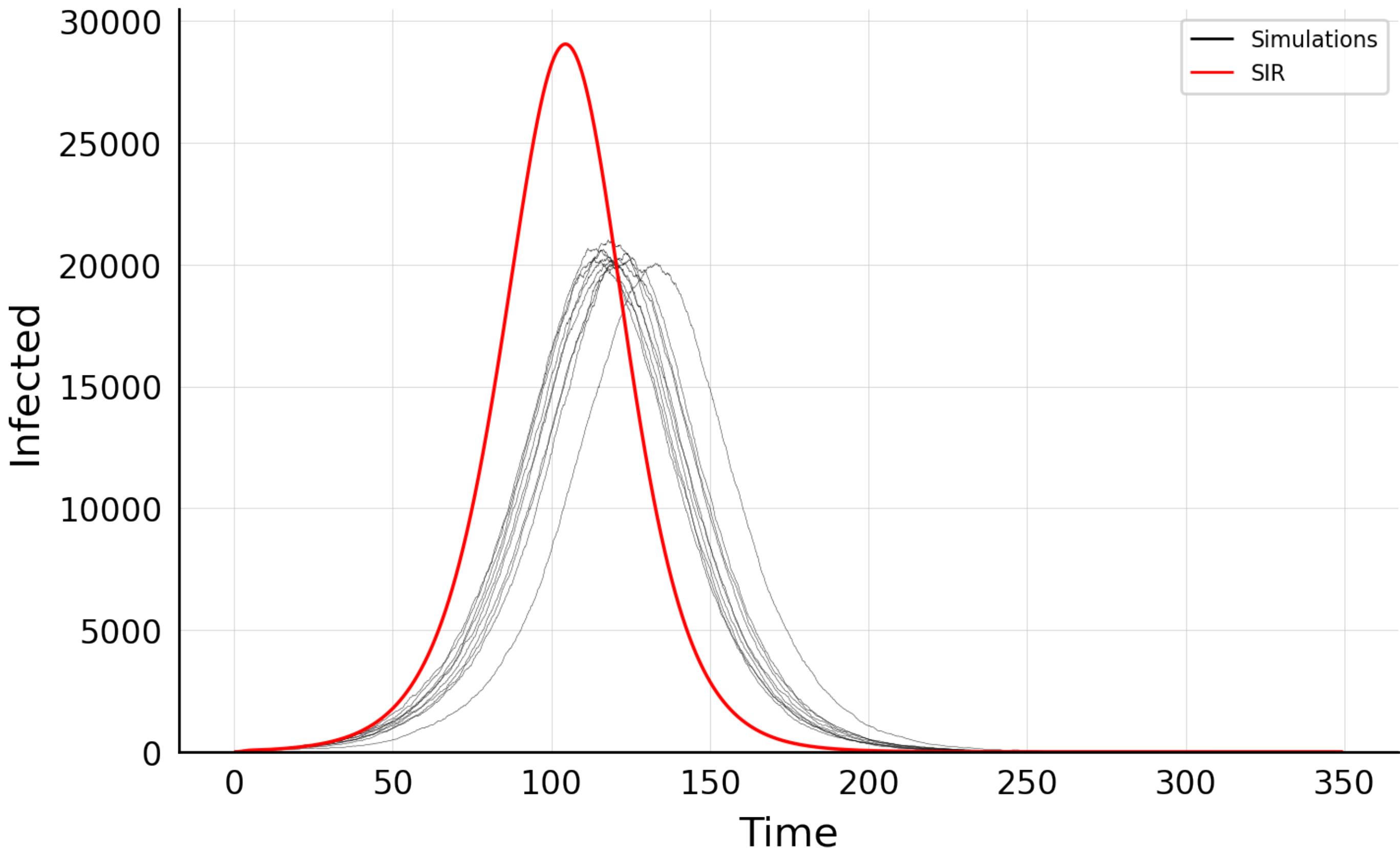
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 20.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.02$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 1$ , #10



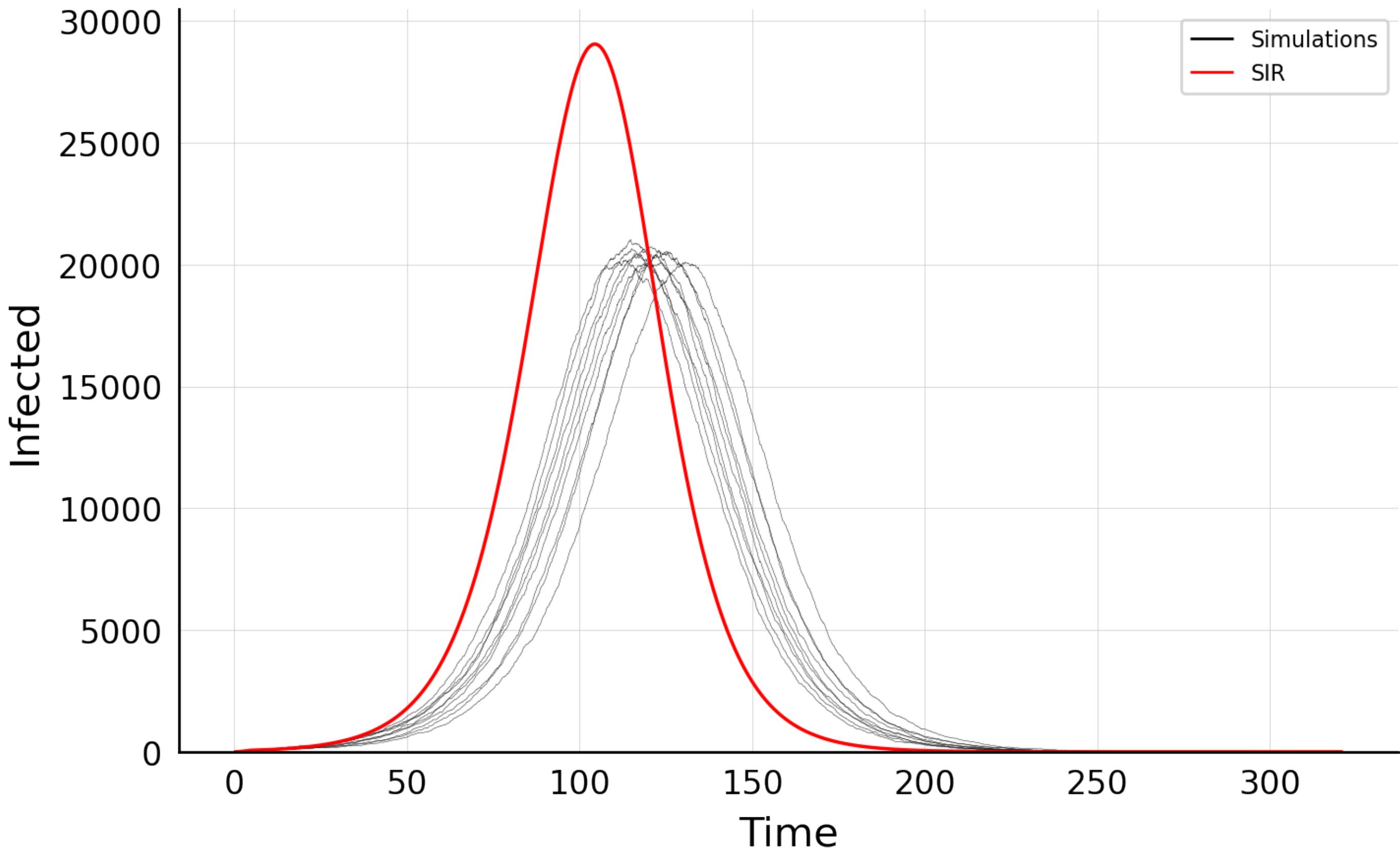
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 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



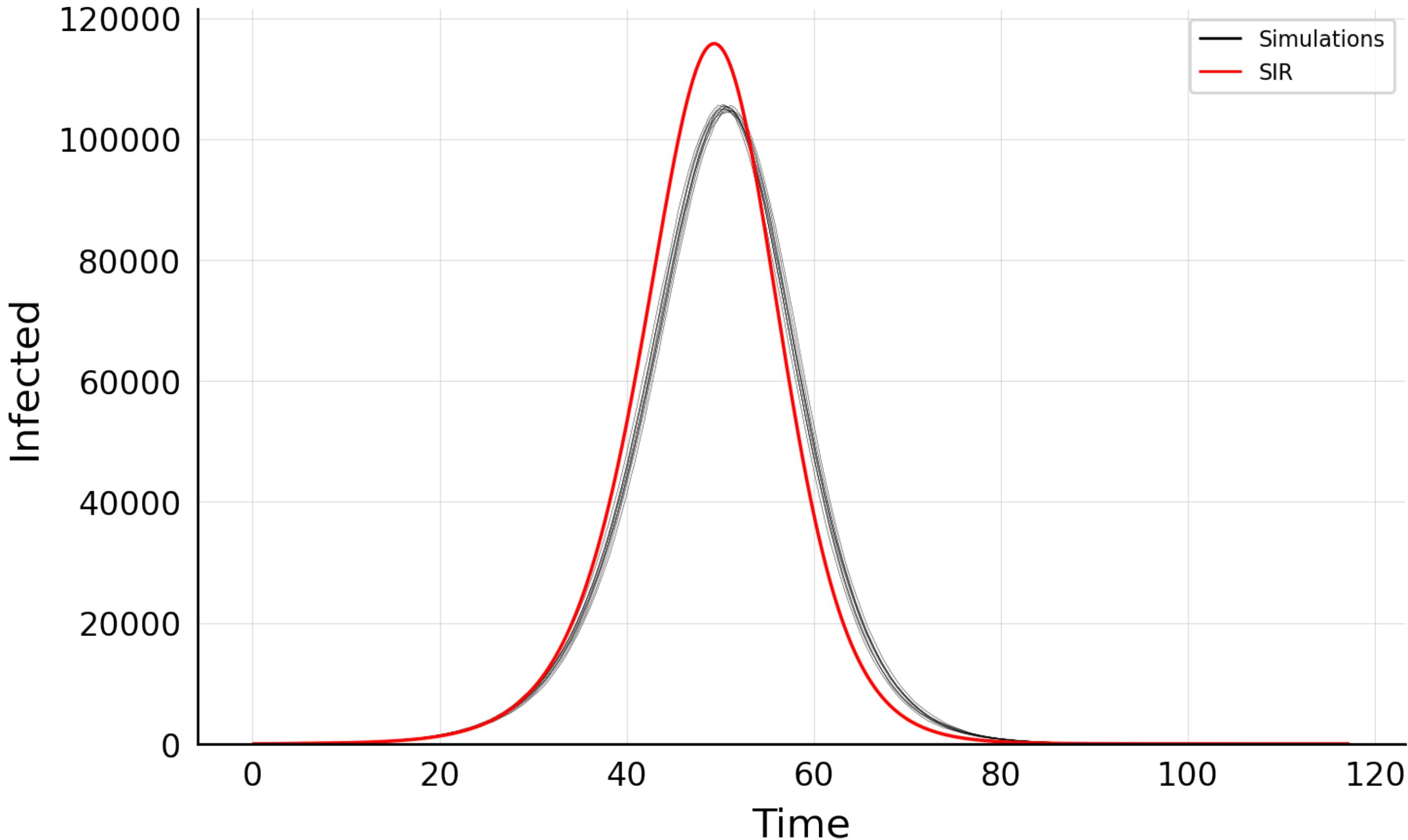
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 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 1$ ,  $\#10$



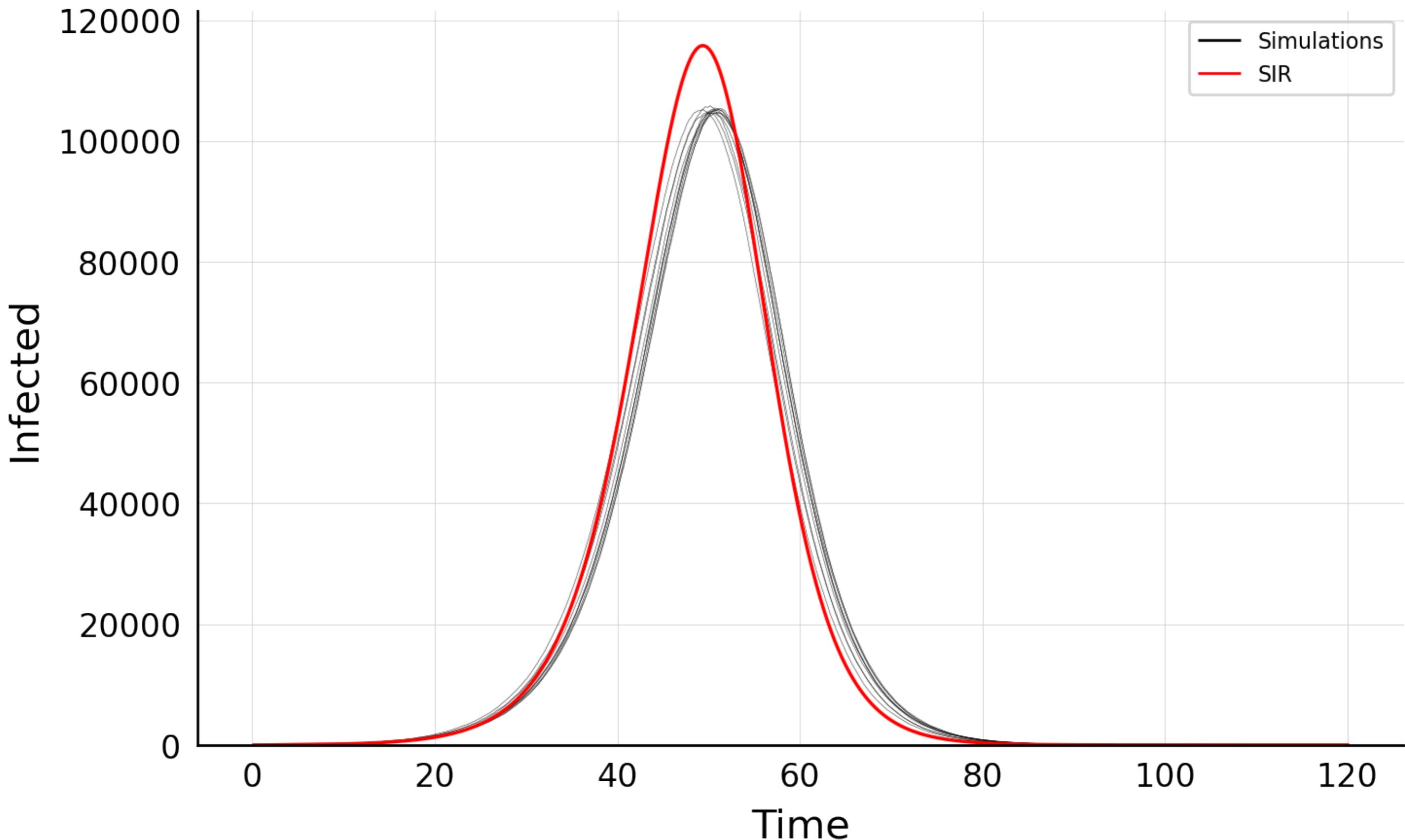
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 20.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.02$ ,  $\sigma_\beta = 1.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ ,  $\#10$



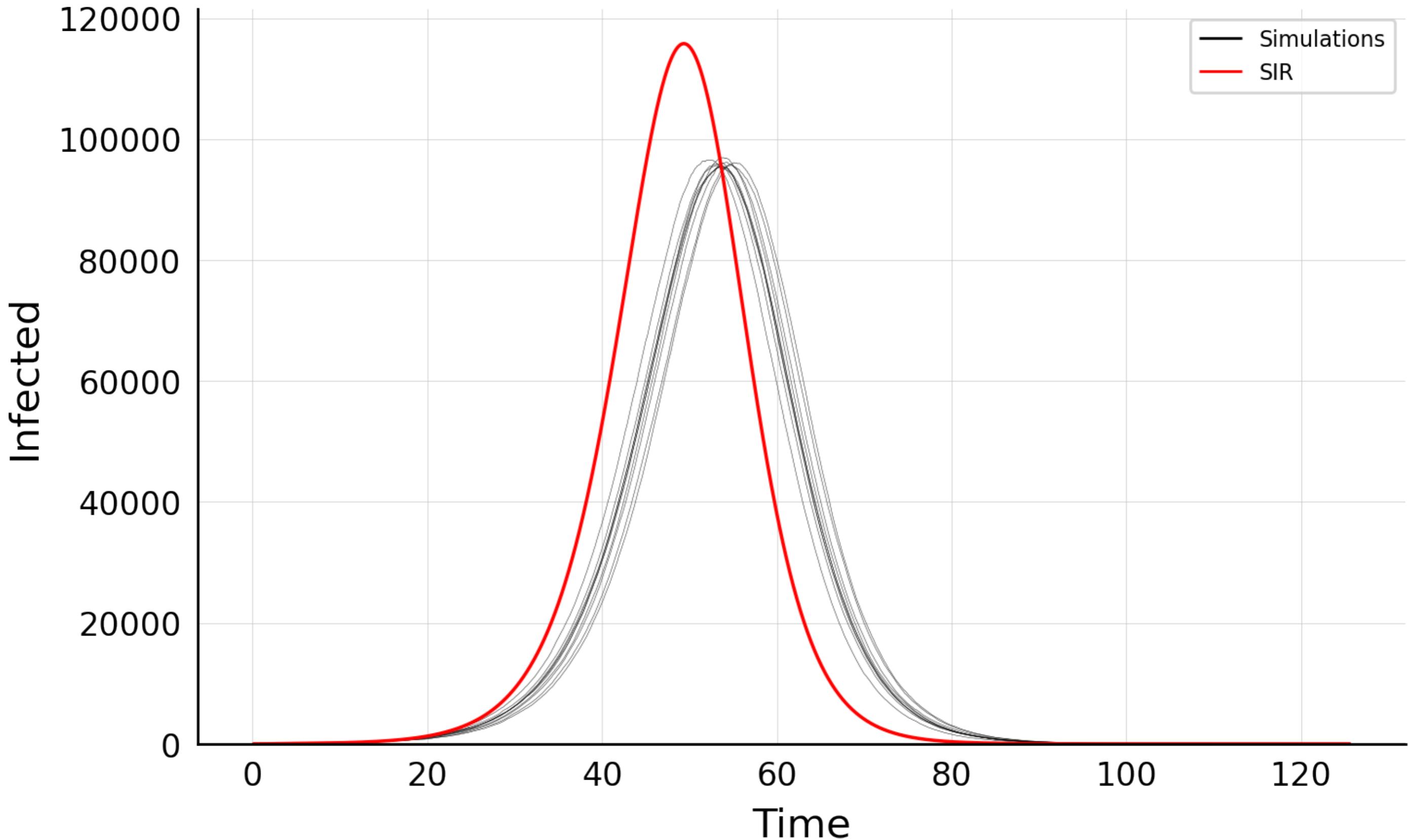
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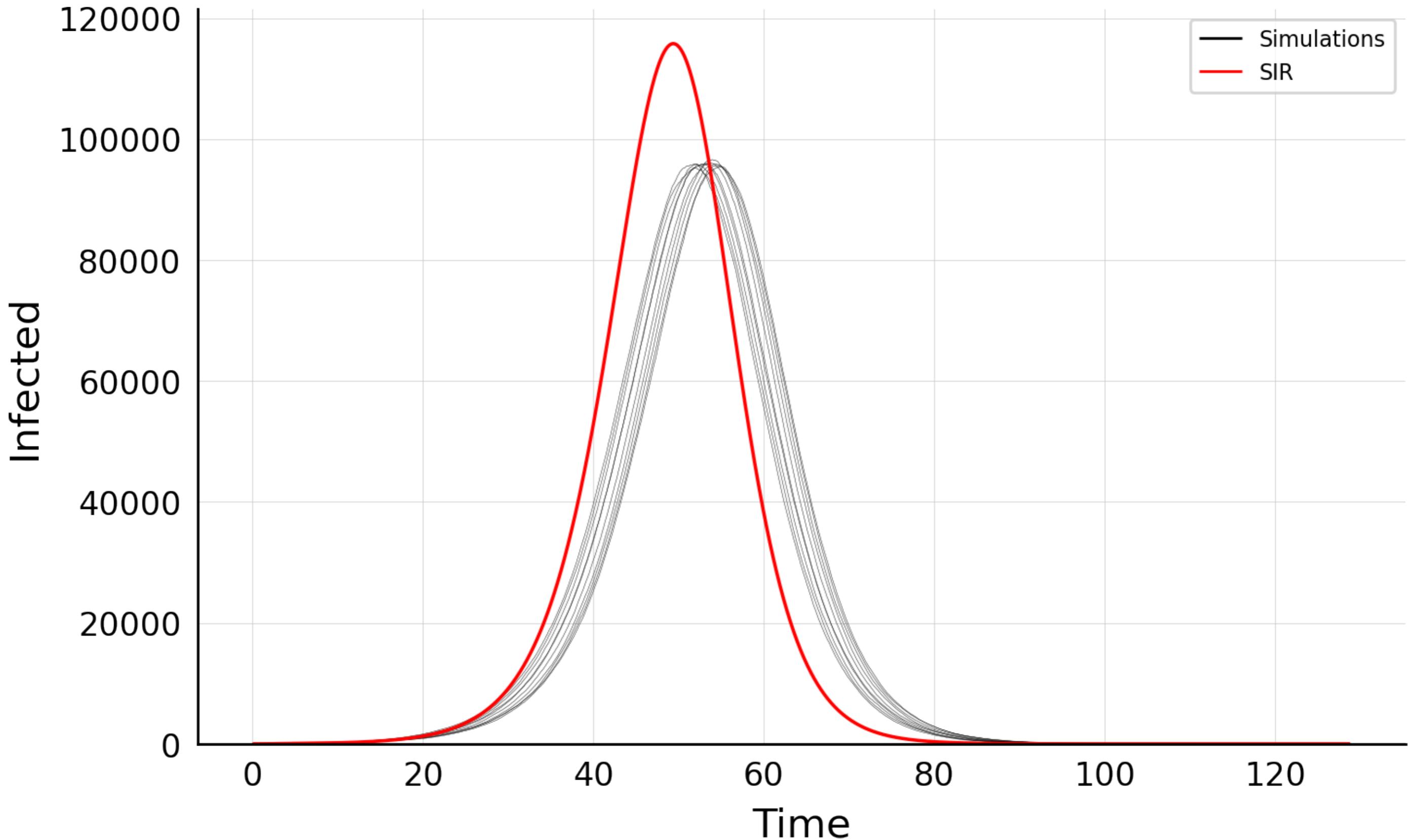
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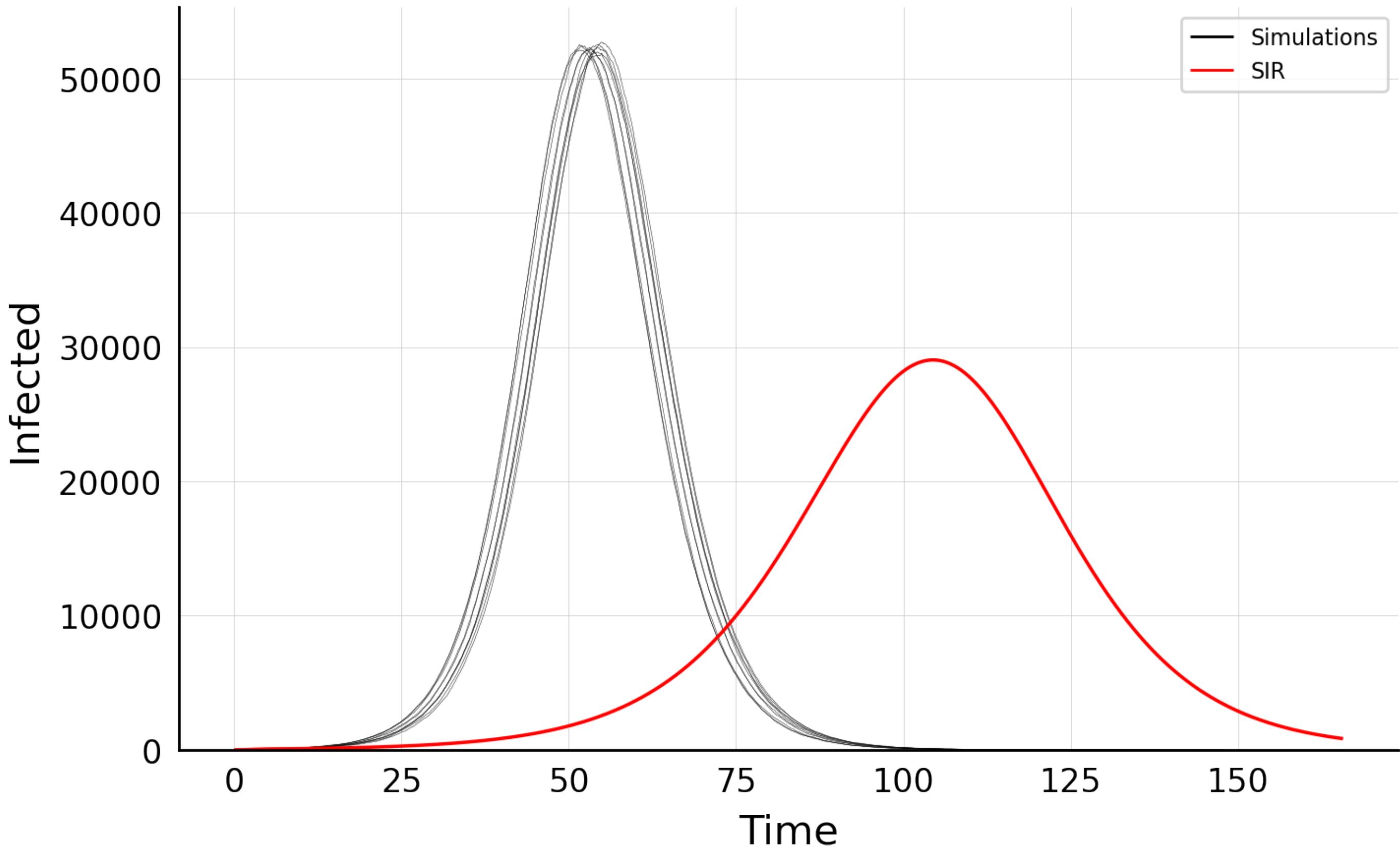
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 20.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.04$ ,  $\sigma_\beta = 1.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 1$ ,  $\#10$



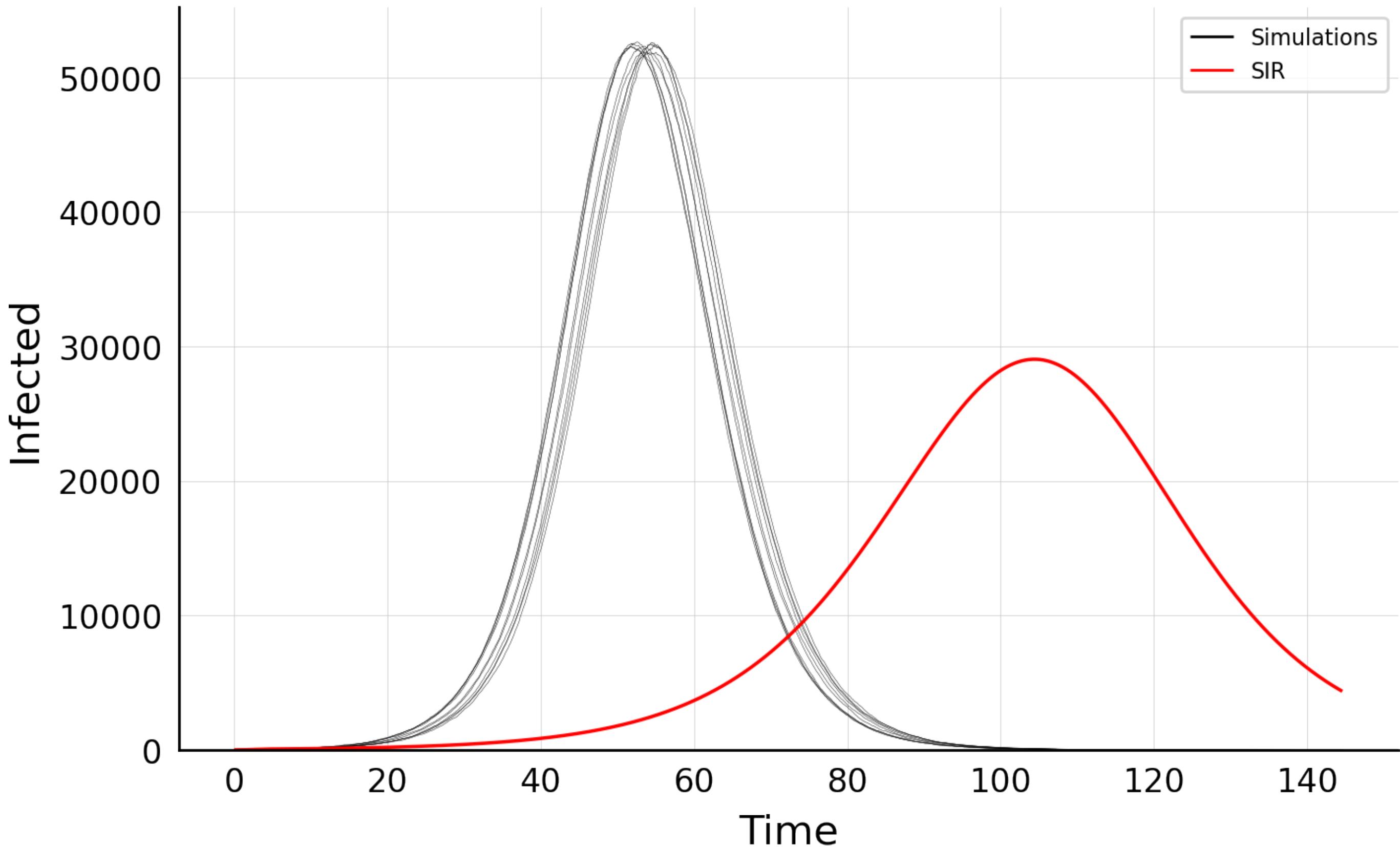
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 20.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.04$ ,  $\sigma_\beta = 1.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



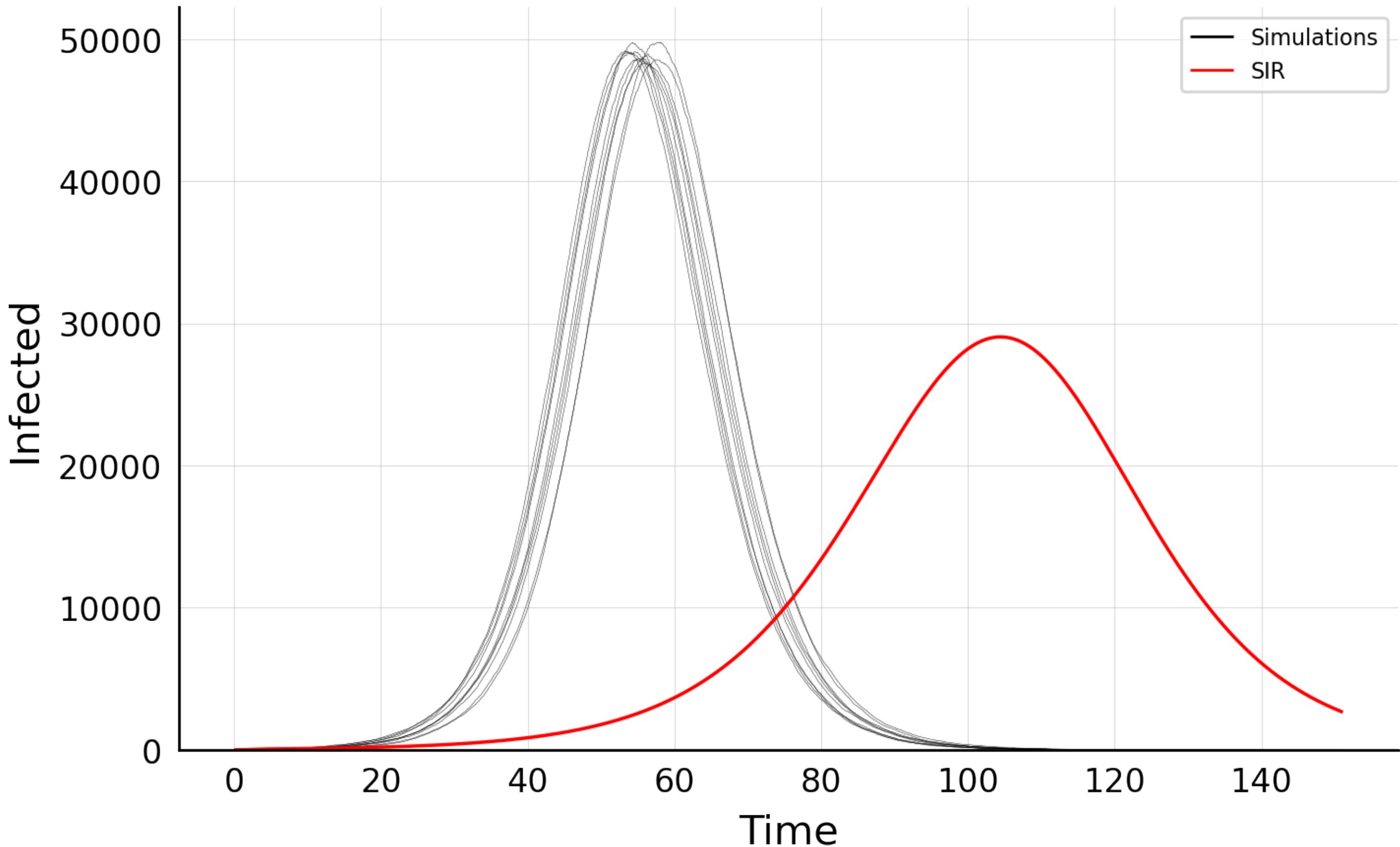
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 20.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.02$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 1$ ,  $\#10$



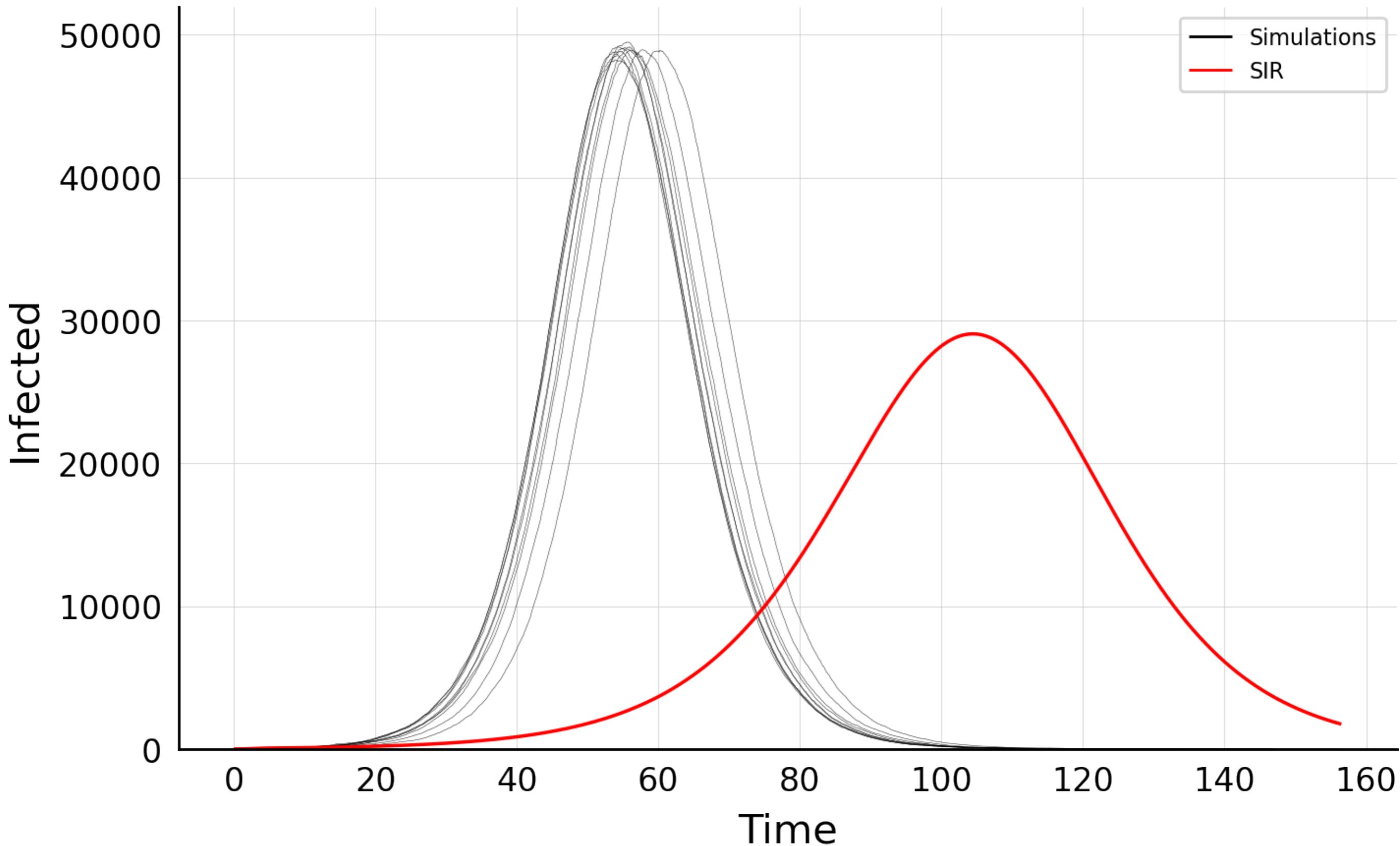
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 20.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.02$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



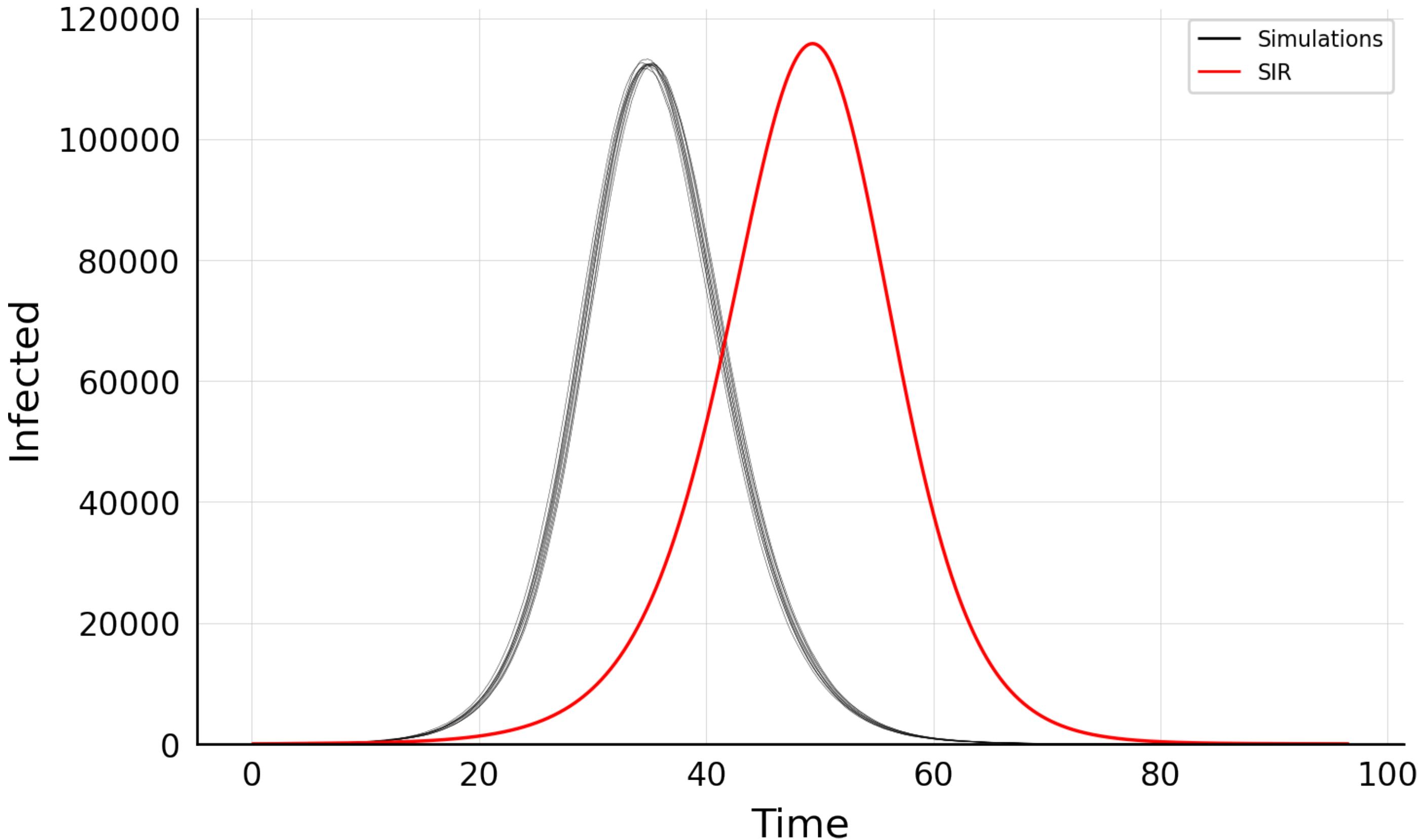
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 20.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.02$ ,  $\sigma_\beta = 1.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 1$ ,  $\#10$



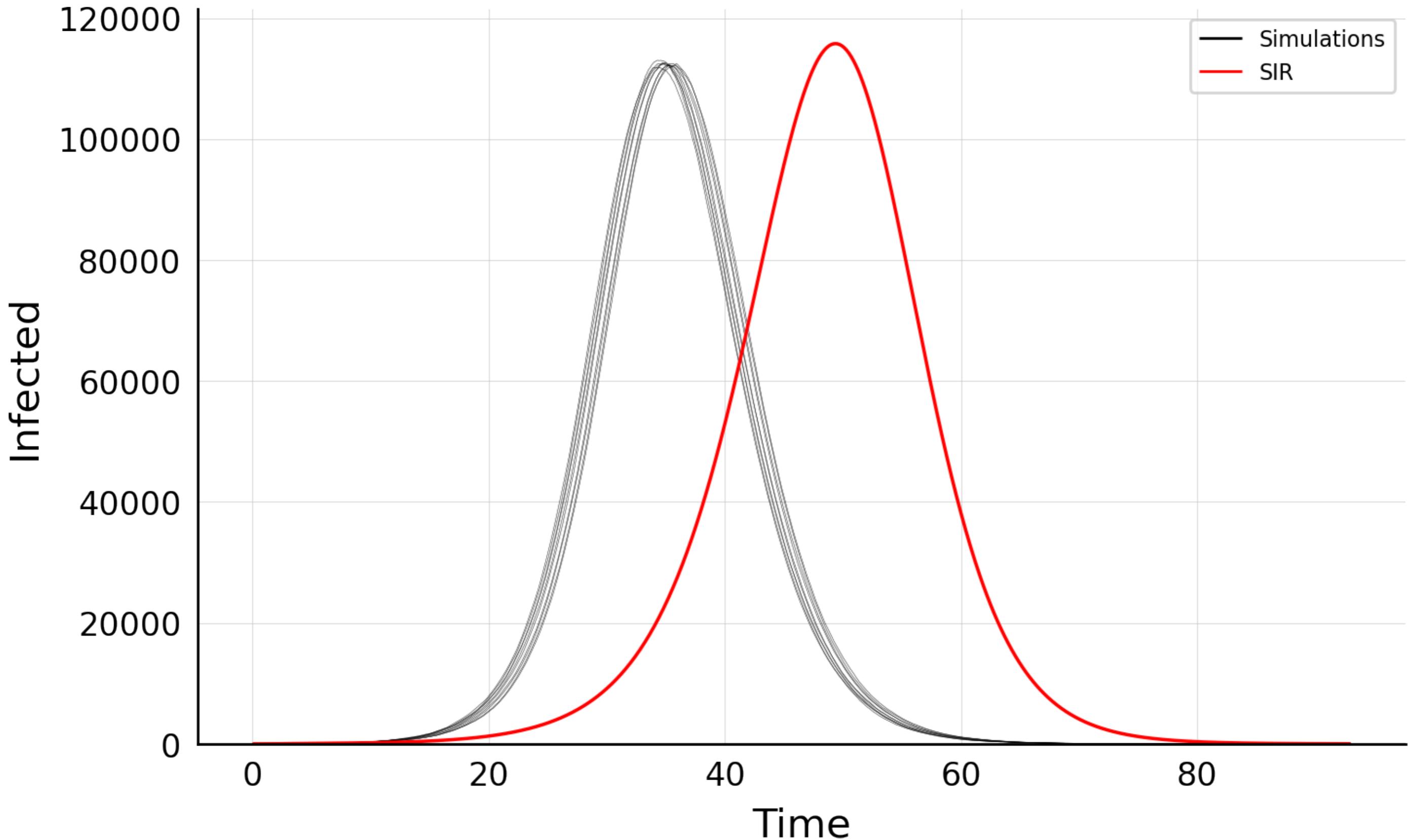
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 20.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.02$ ,  $\sigma_\beta = 1.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



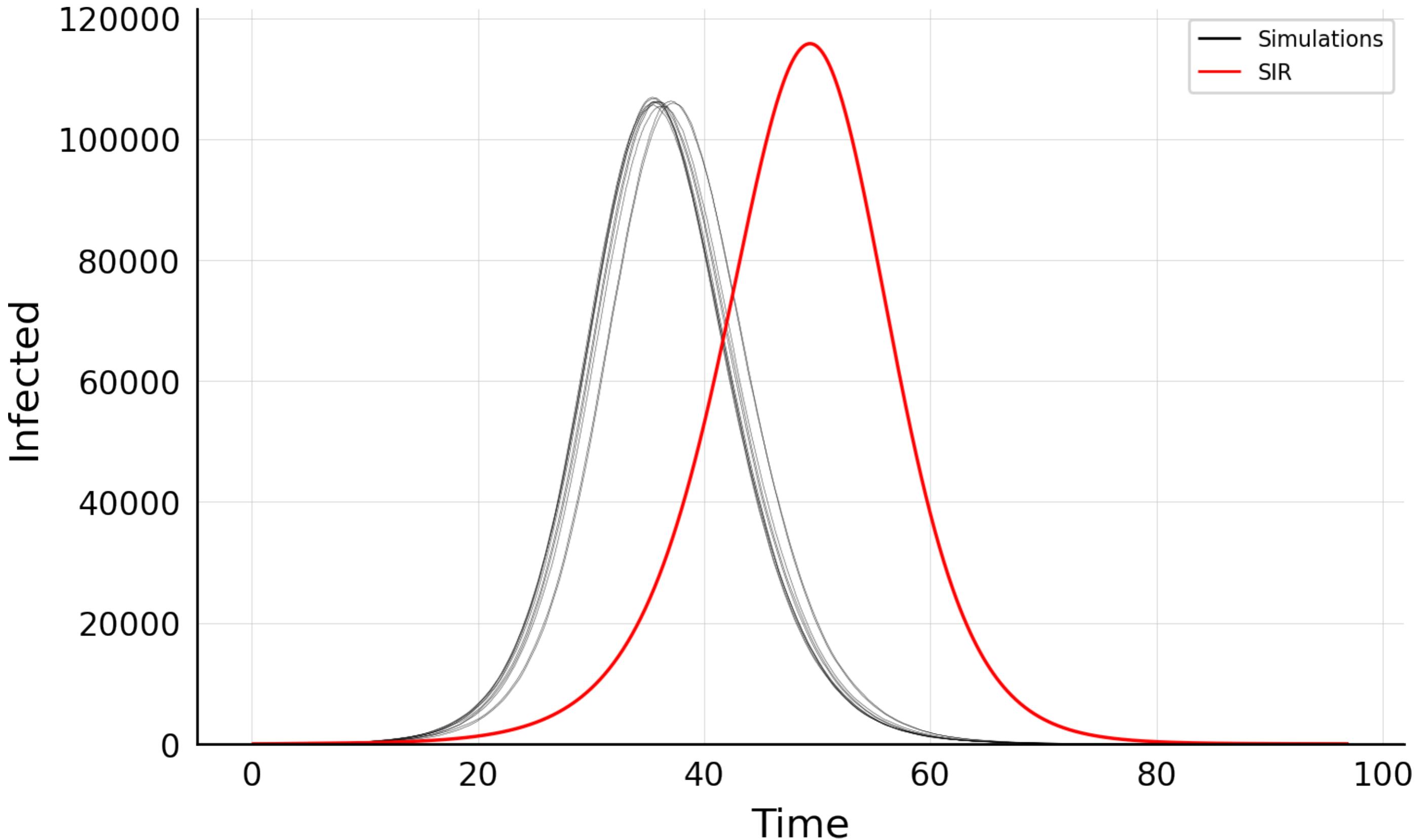
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 20.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.04$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 1$ ,  $\#10$



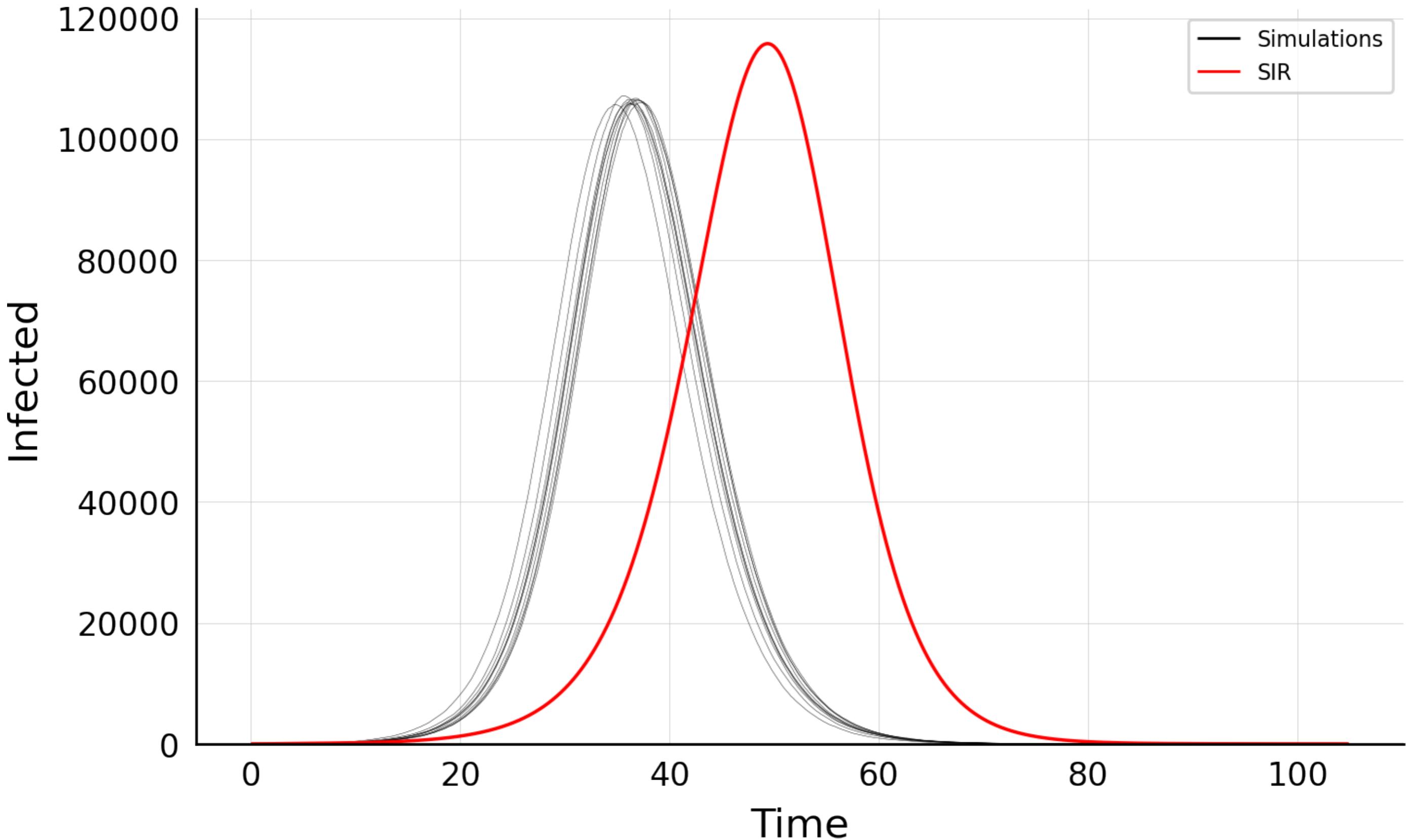
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 20.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.04$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



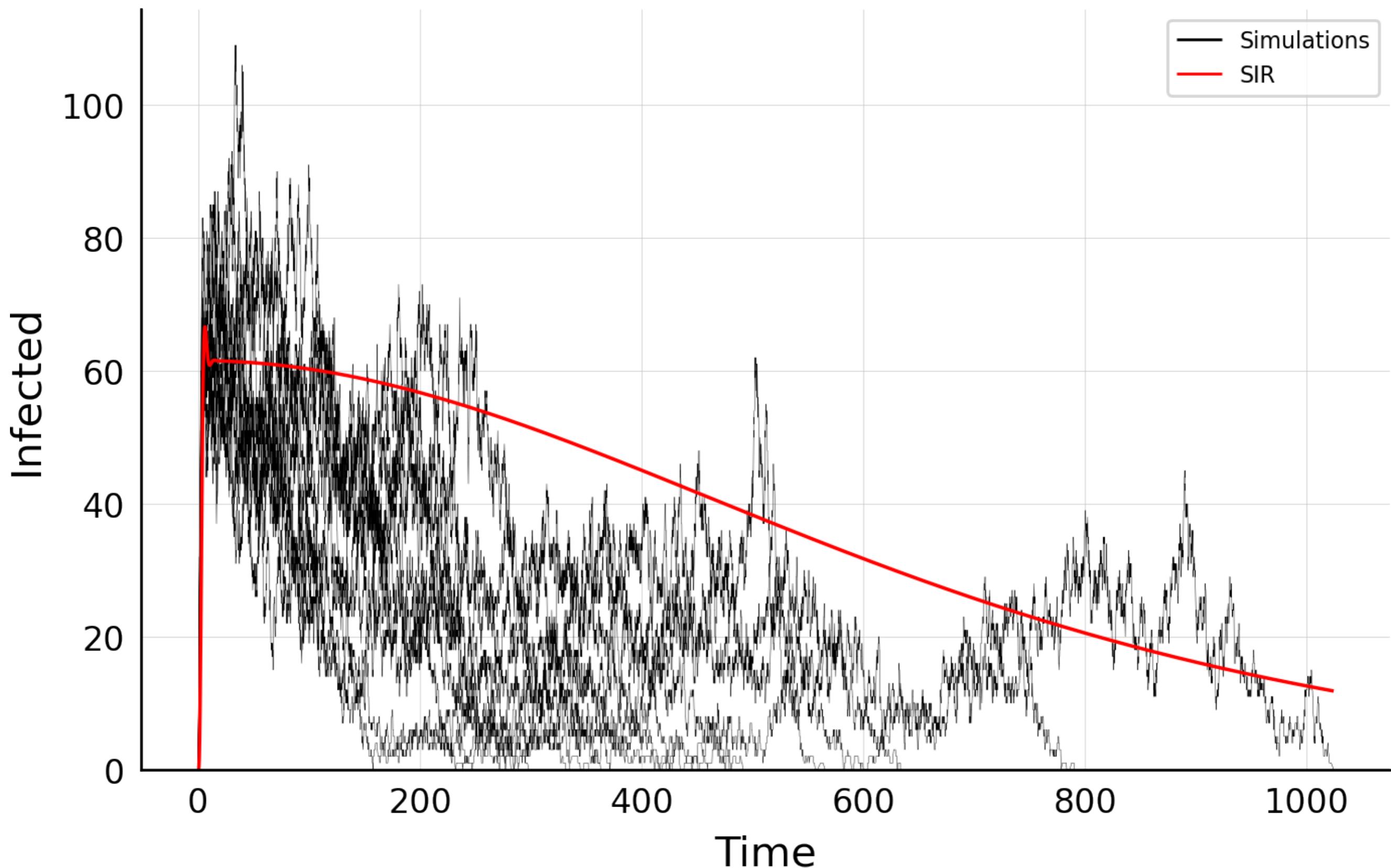
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 20.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.04$ ,  $\sigma_\beta = 1.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 1$ , #10



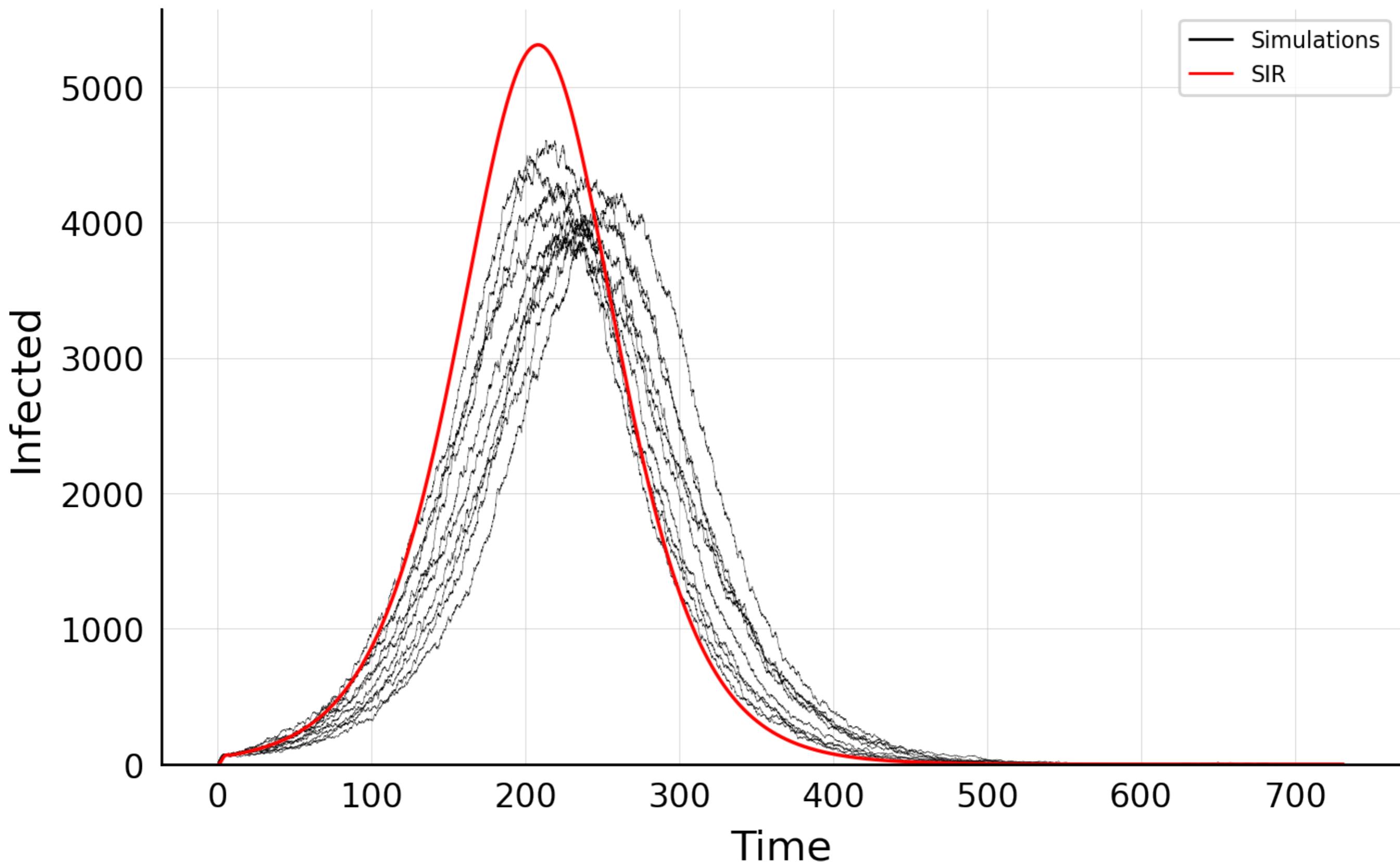
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 20.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.04$ ,  $\sigma_\beta = 1.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



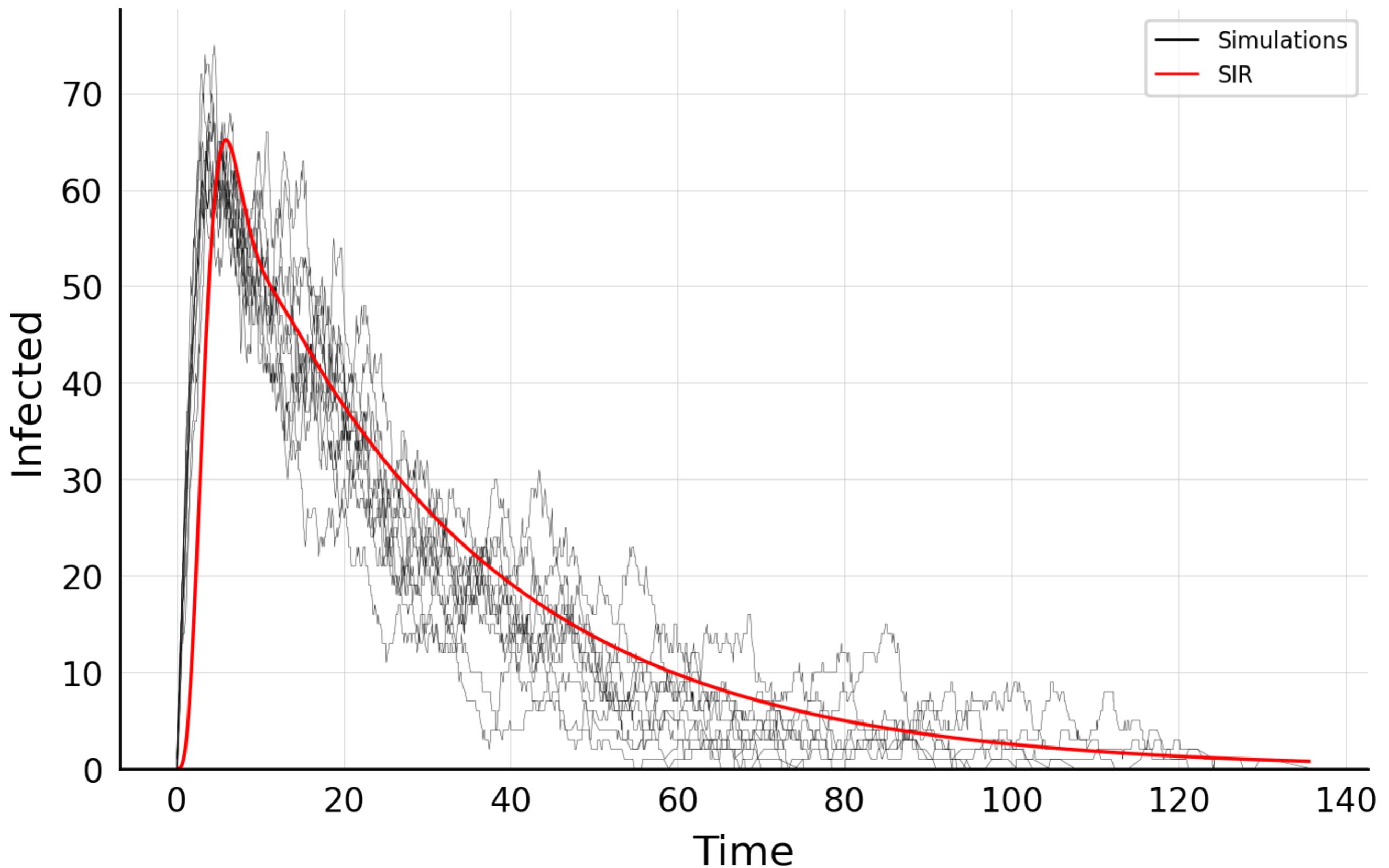
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 25.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



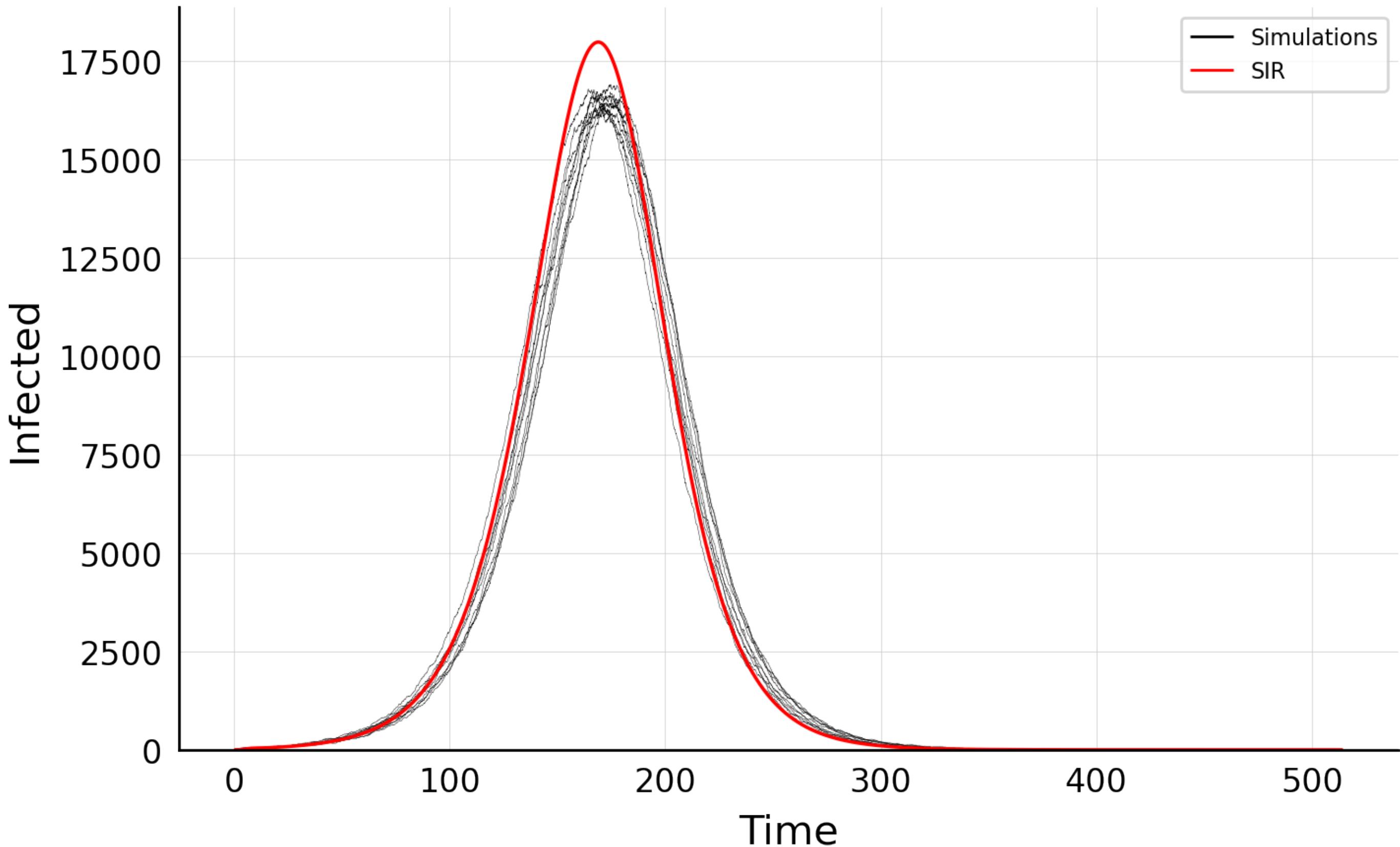
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 30.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



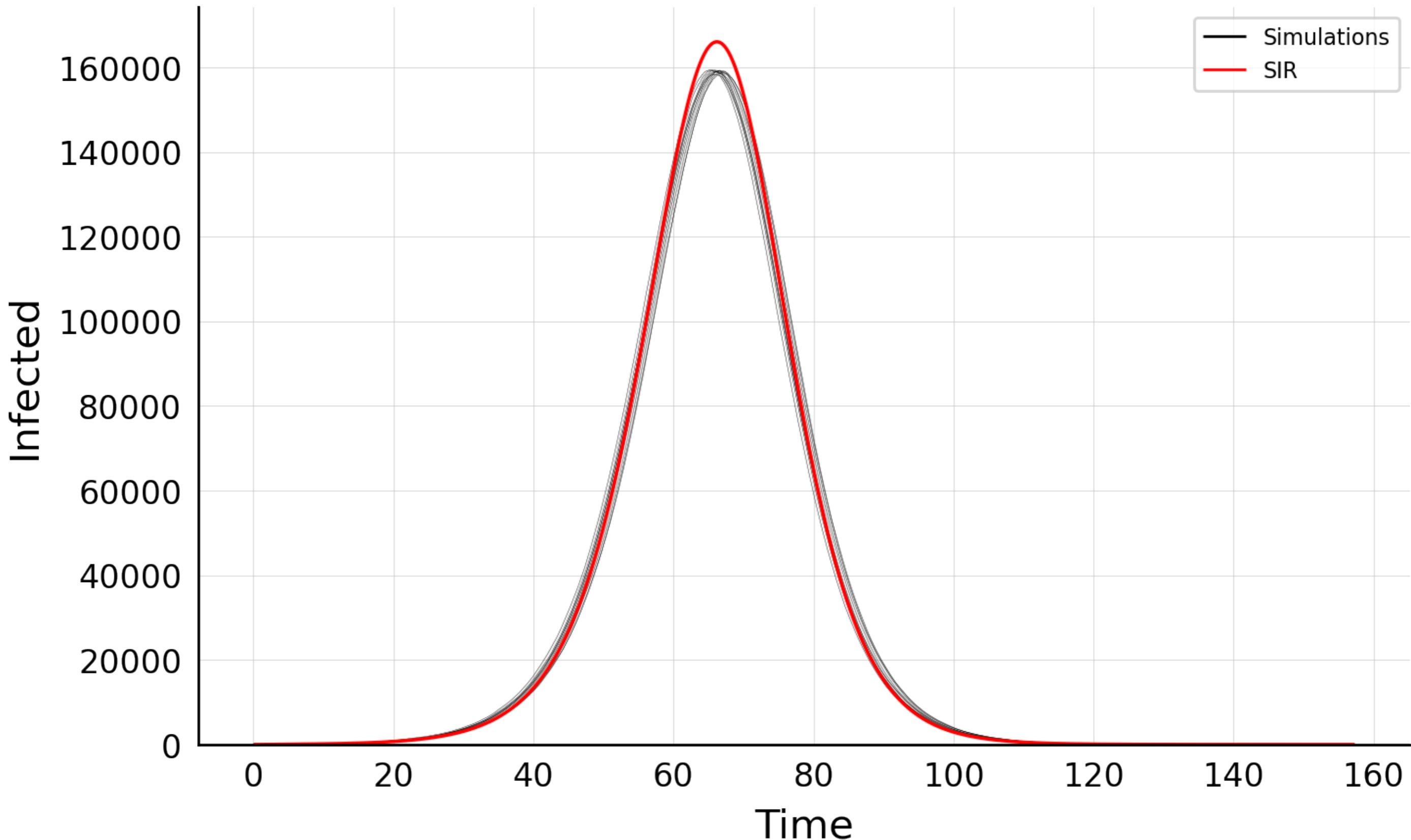
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.005$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



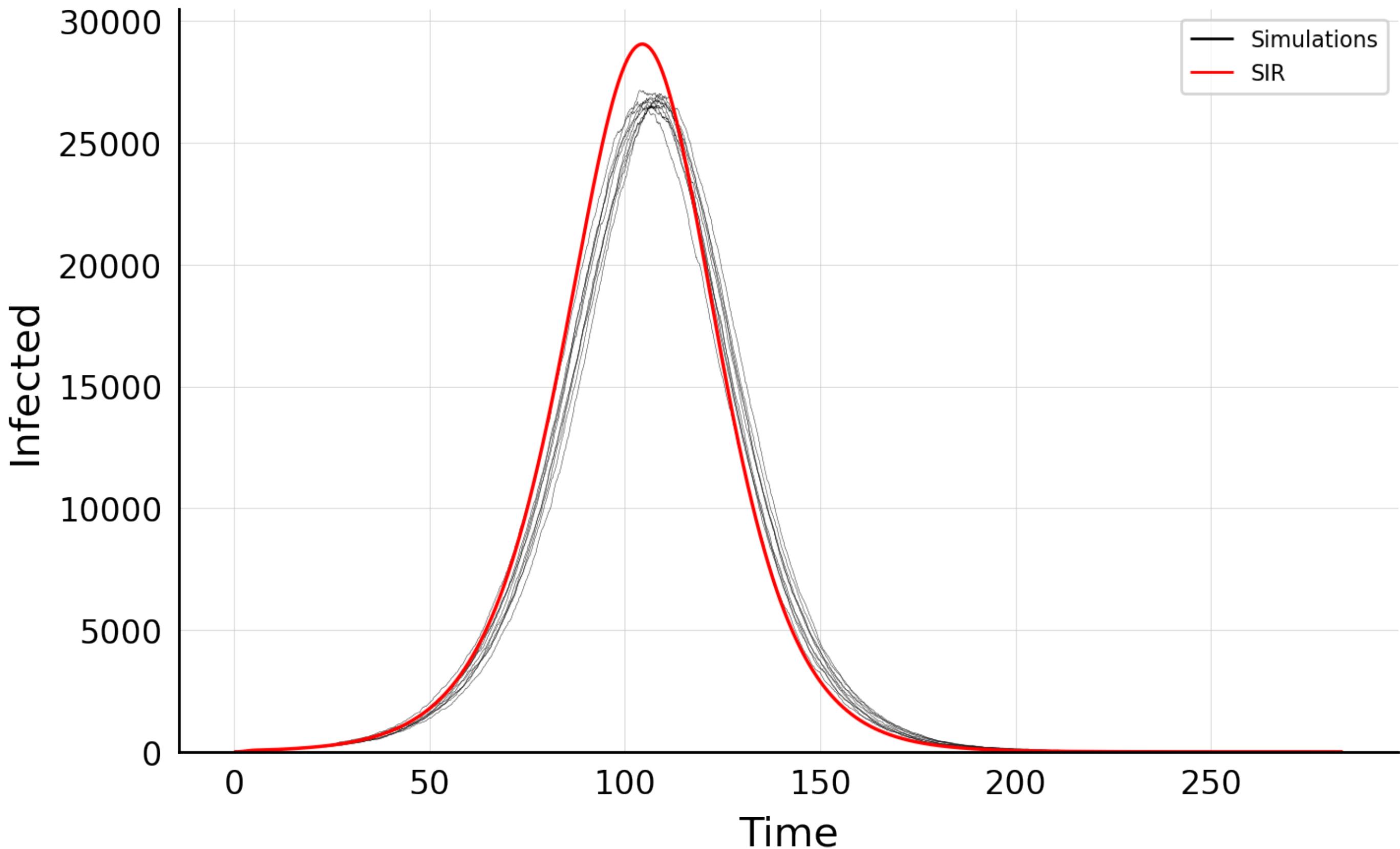
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 0.5$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ ,  $\#10$



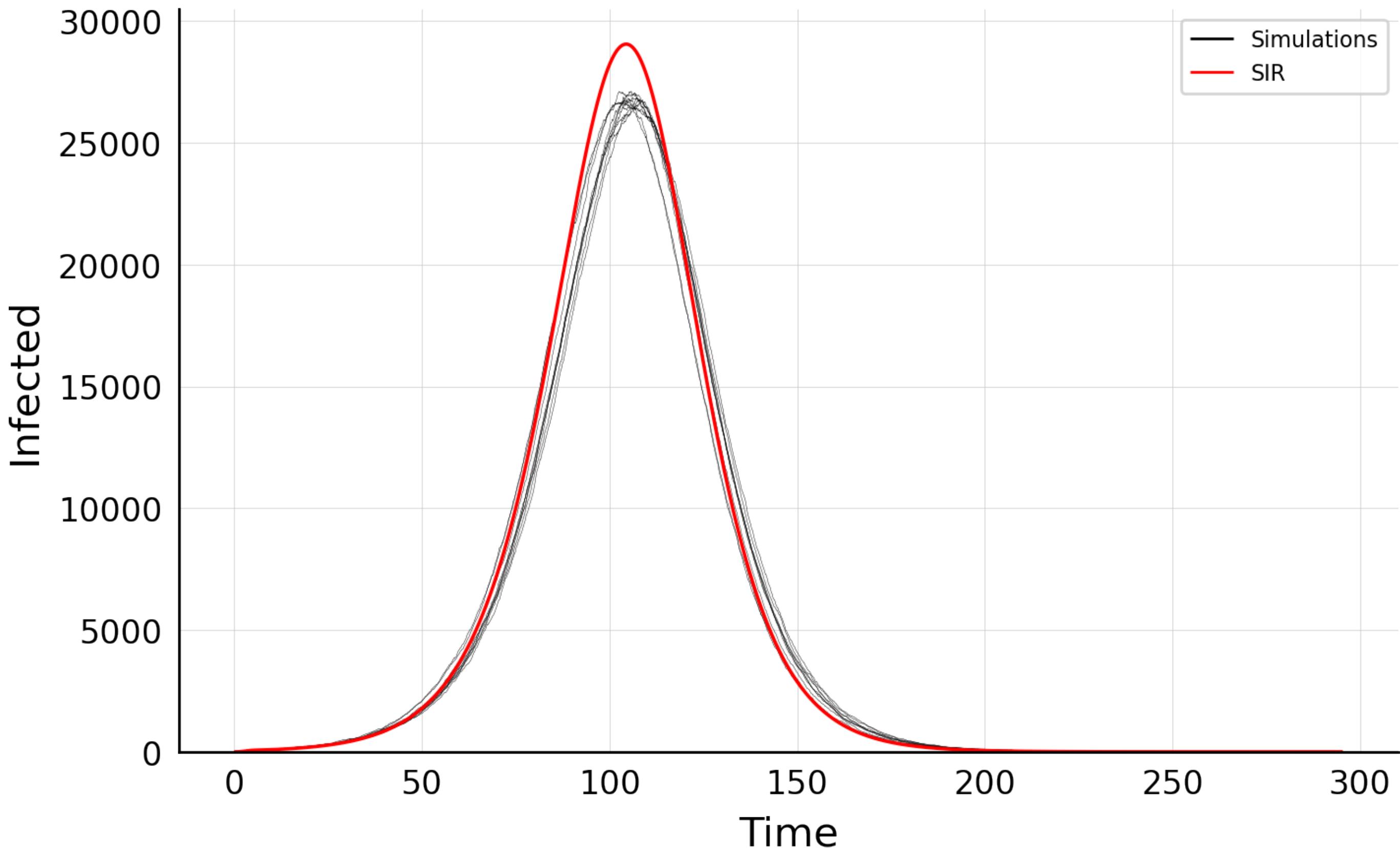
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 0.5$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ ,  $\#10$



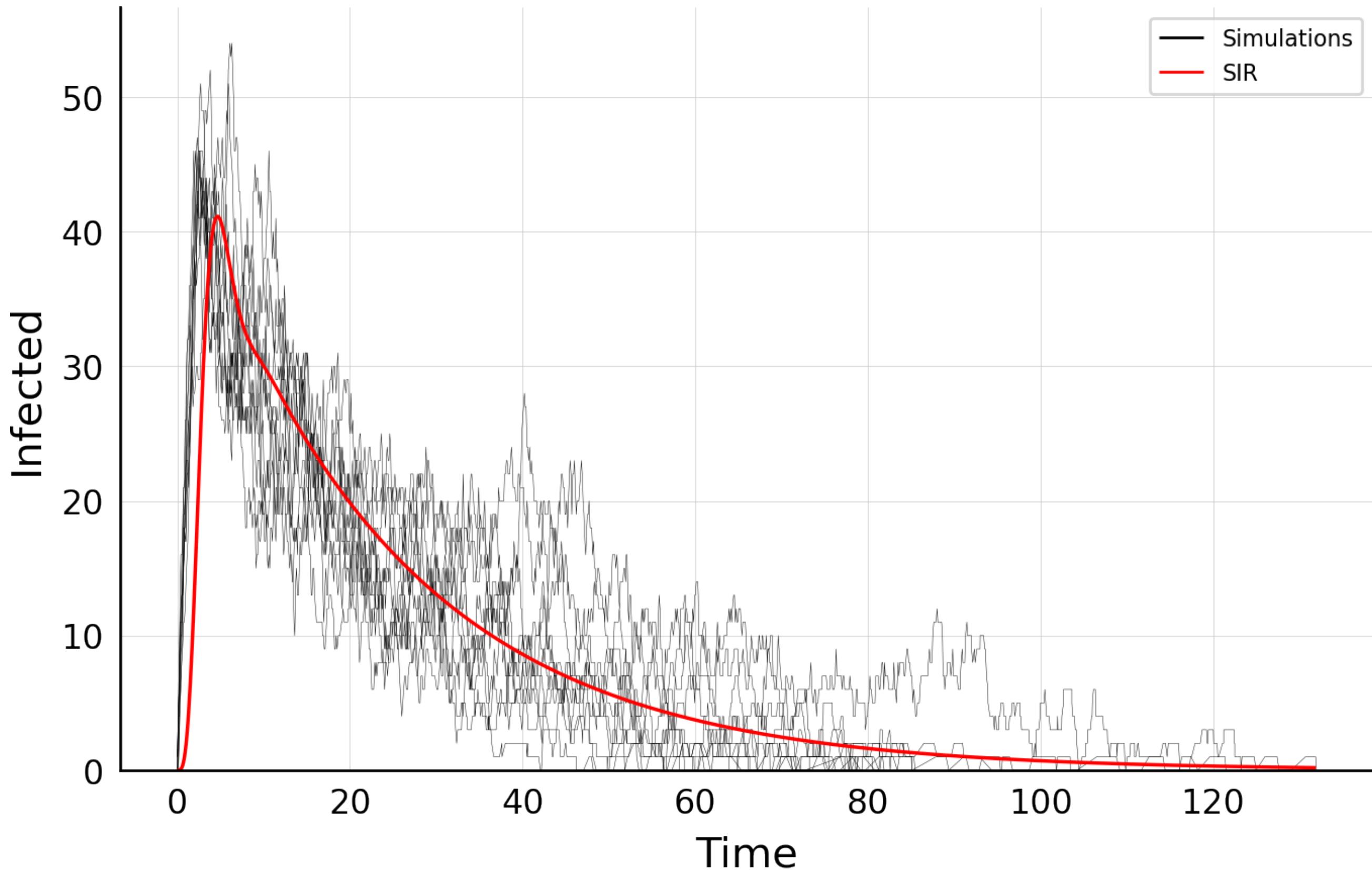
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 1$ ,  $\#10$



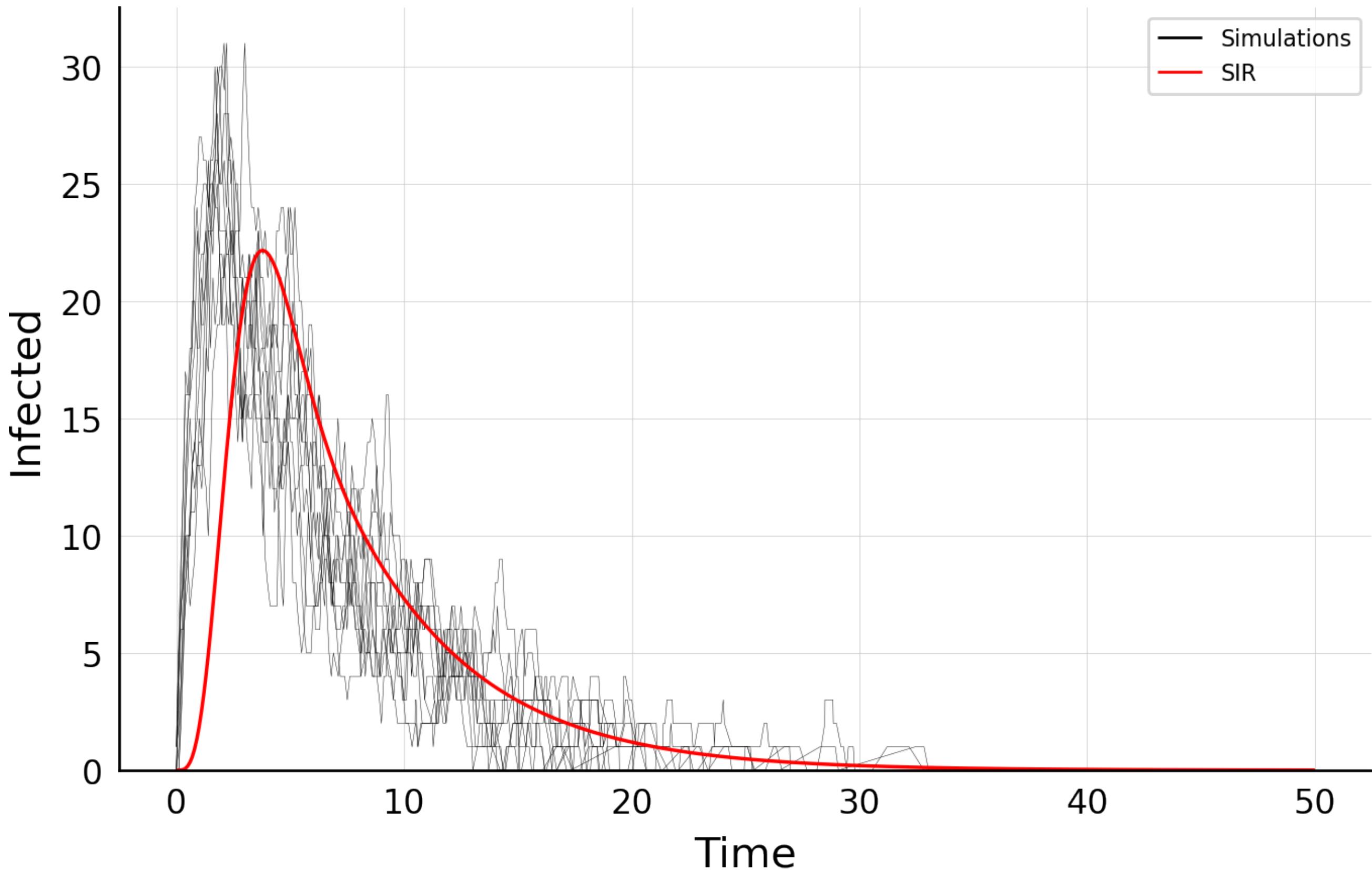
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ ,  $\#10$



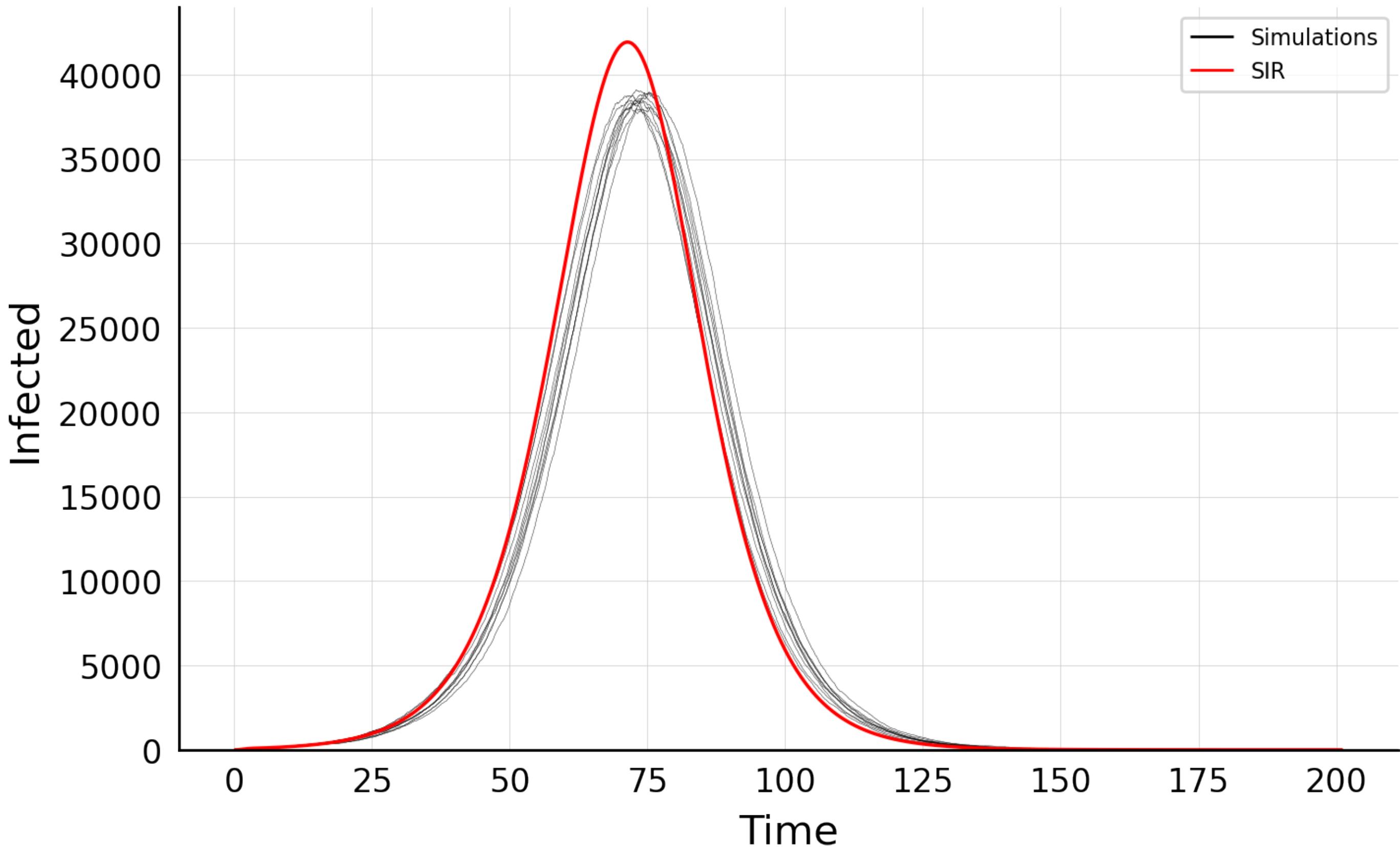
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 2.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ ,  $\#10$



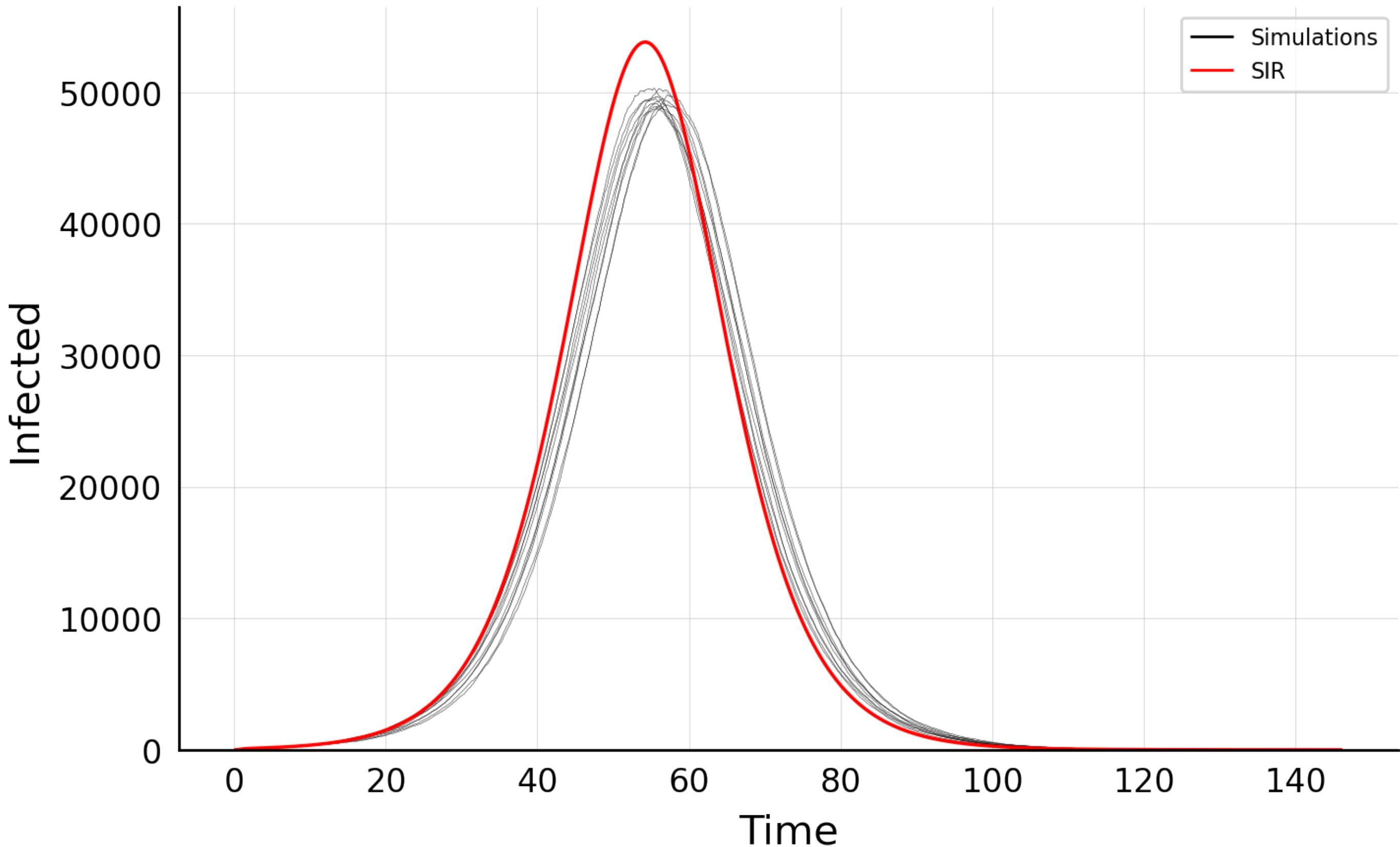
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 4.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ ,  $\#10$



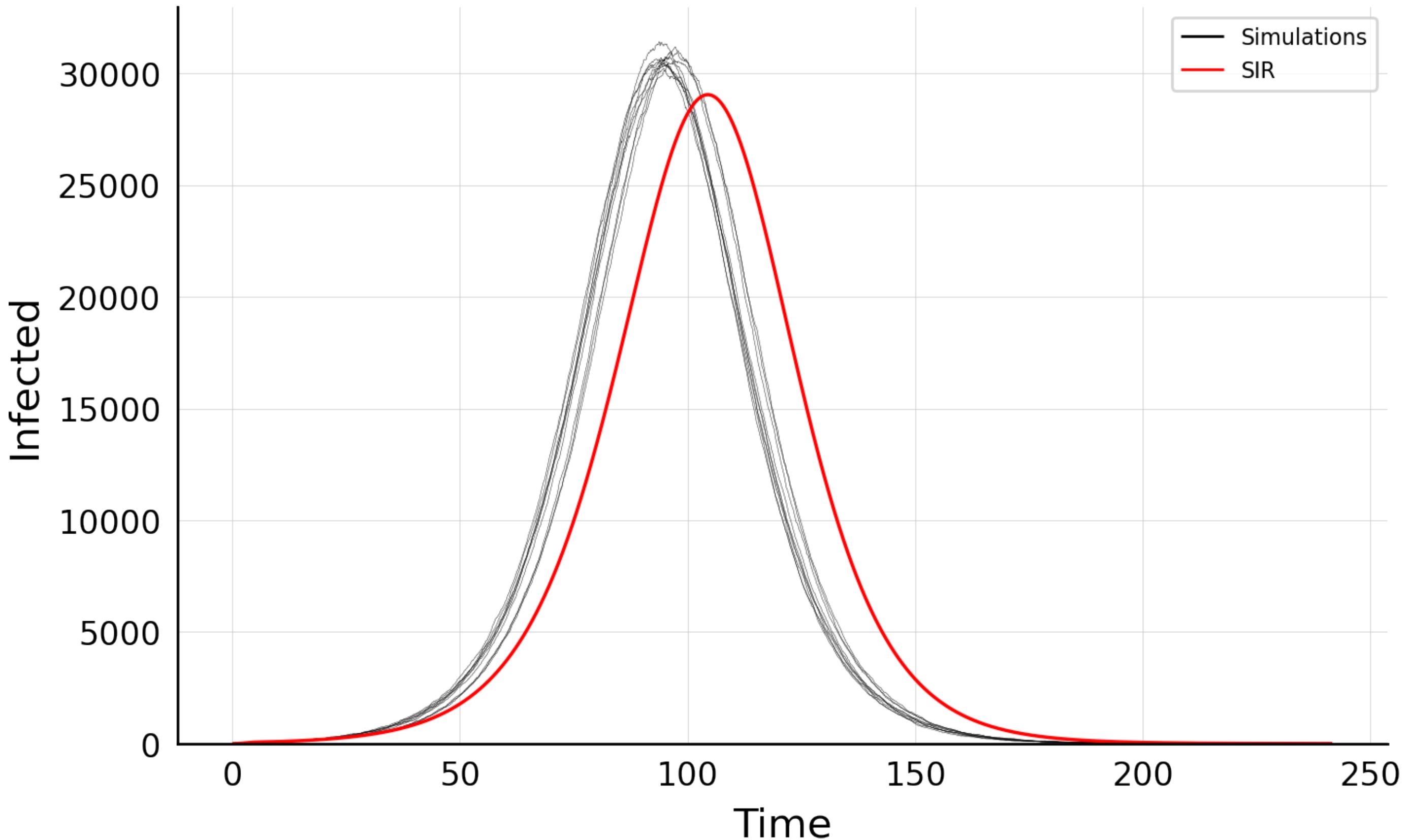
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 2.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ ,  $\#10$



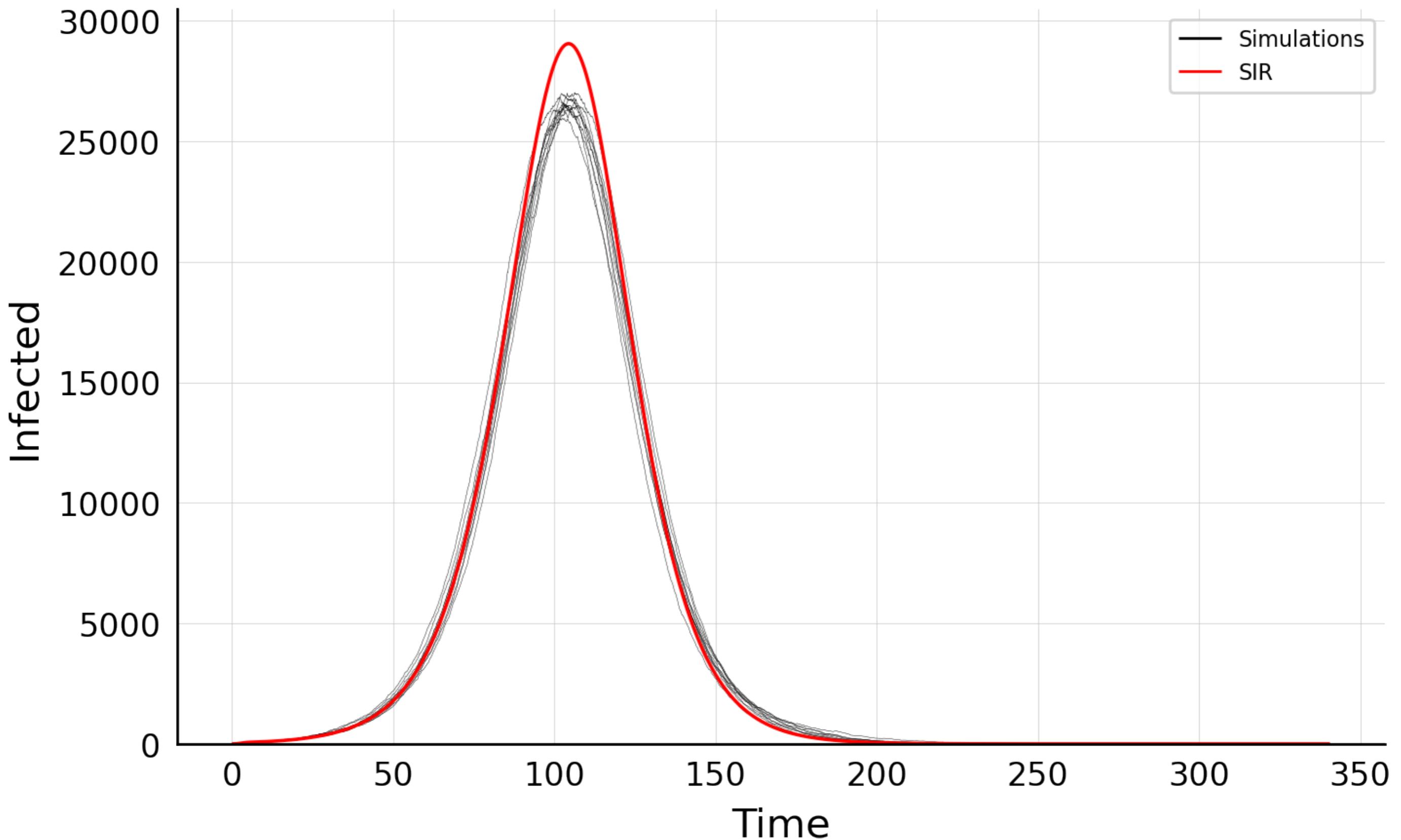
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 4.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



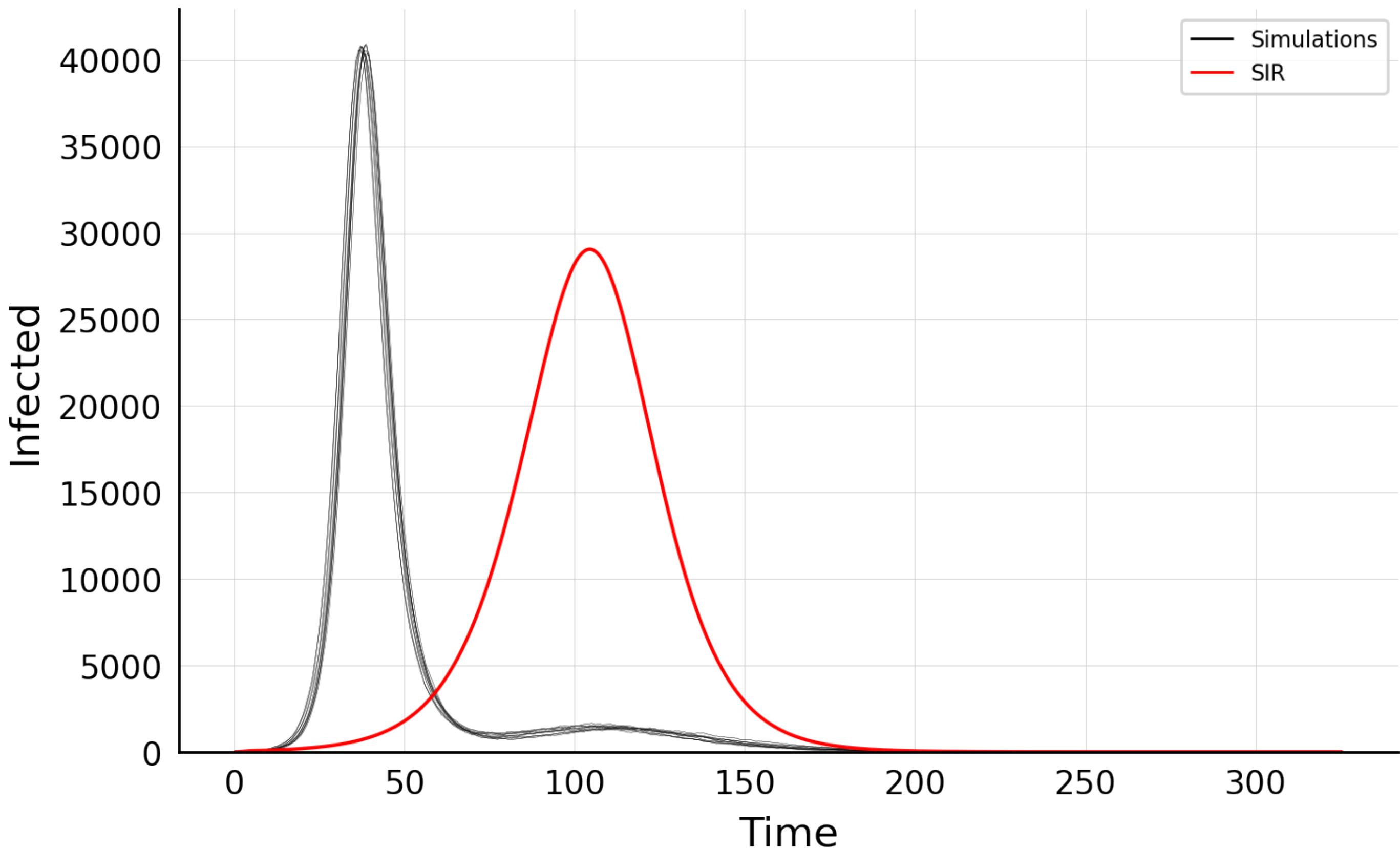
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 10.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



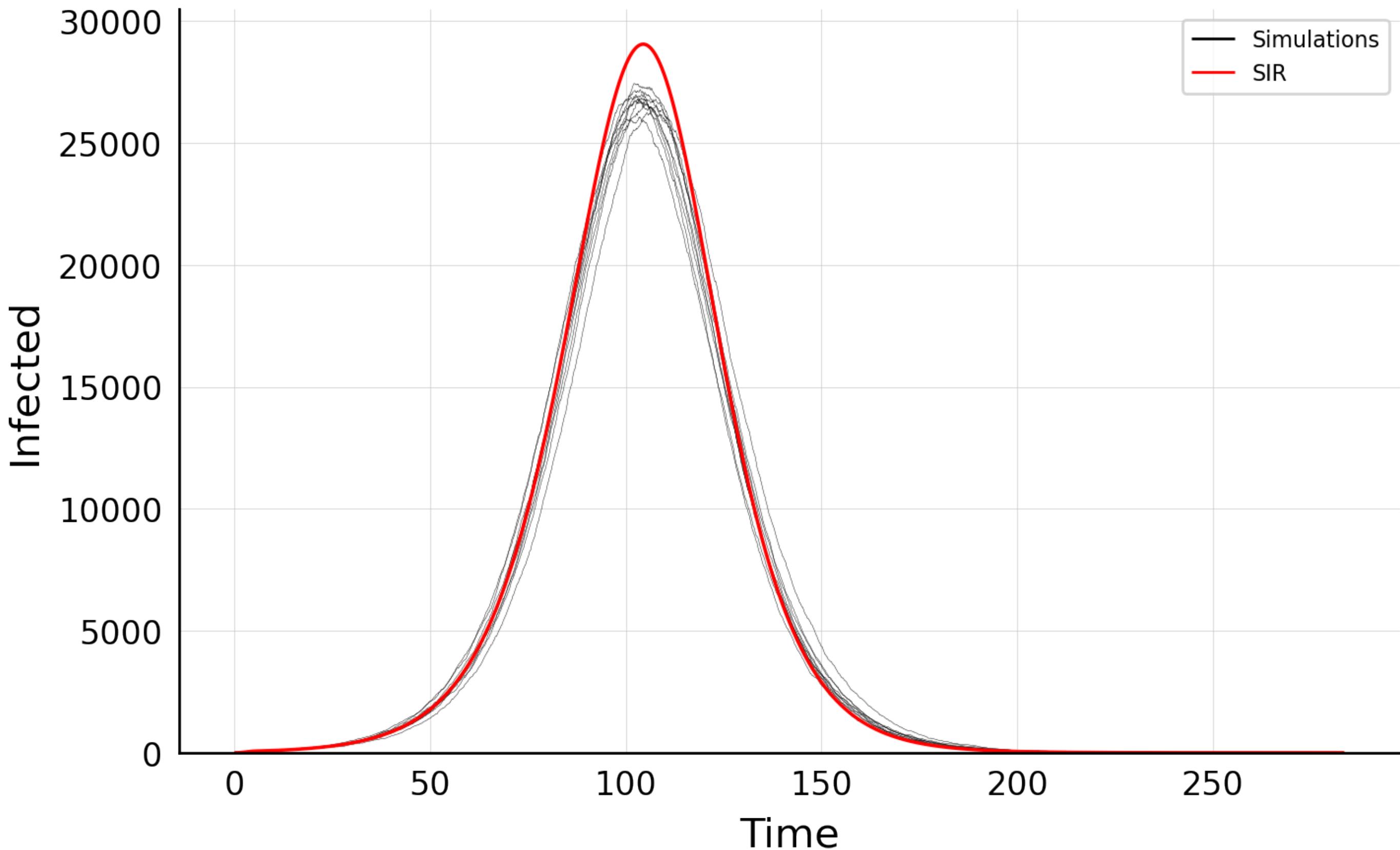
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 100.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.005$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 1$ ,  $\#10$



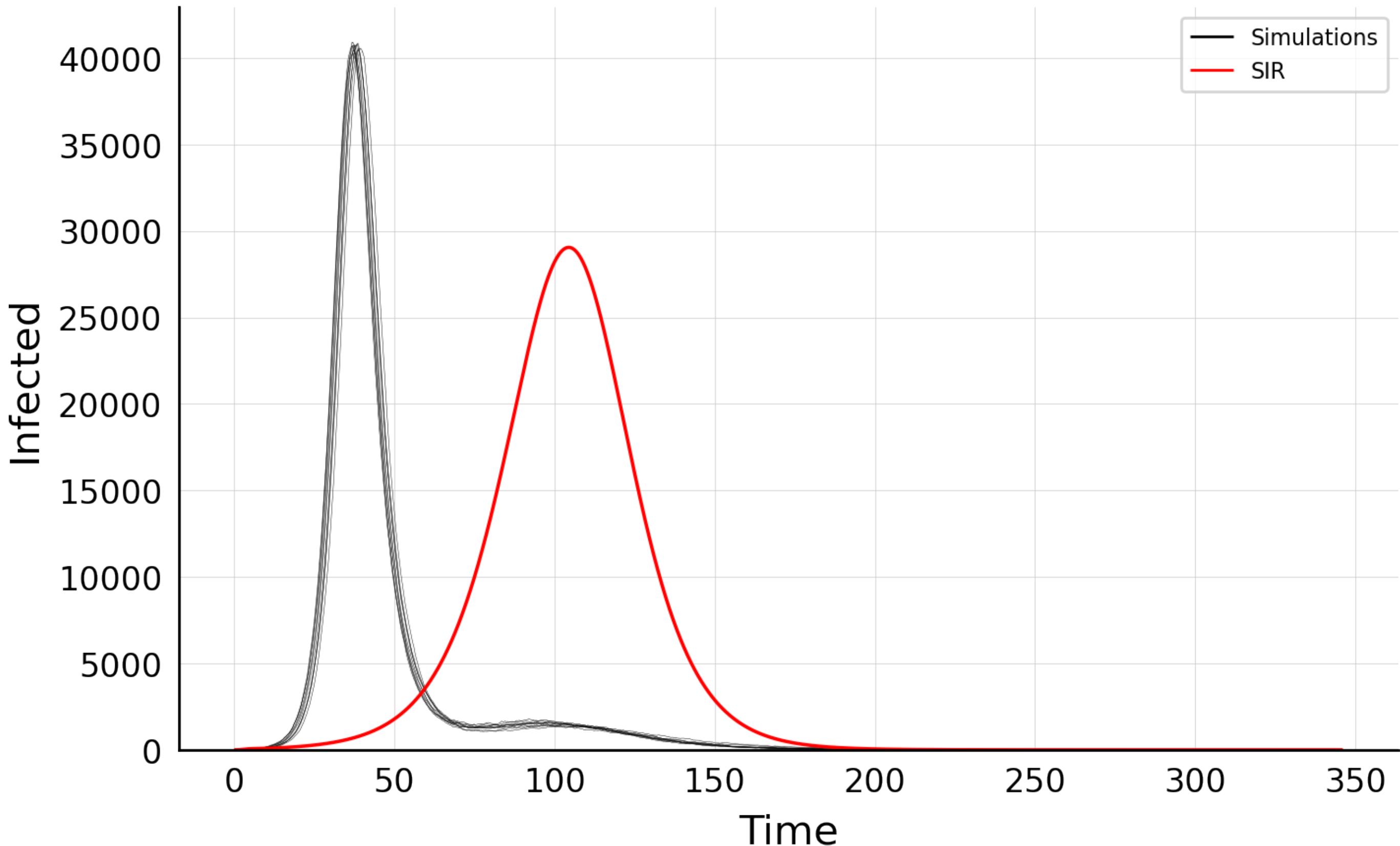
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 100.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.005$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



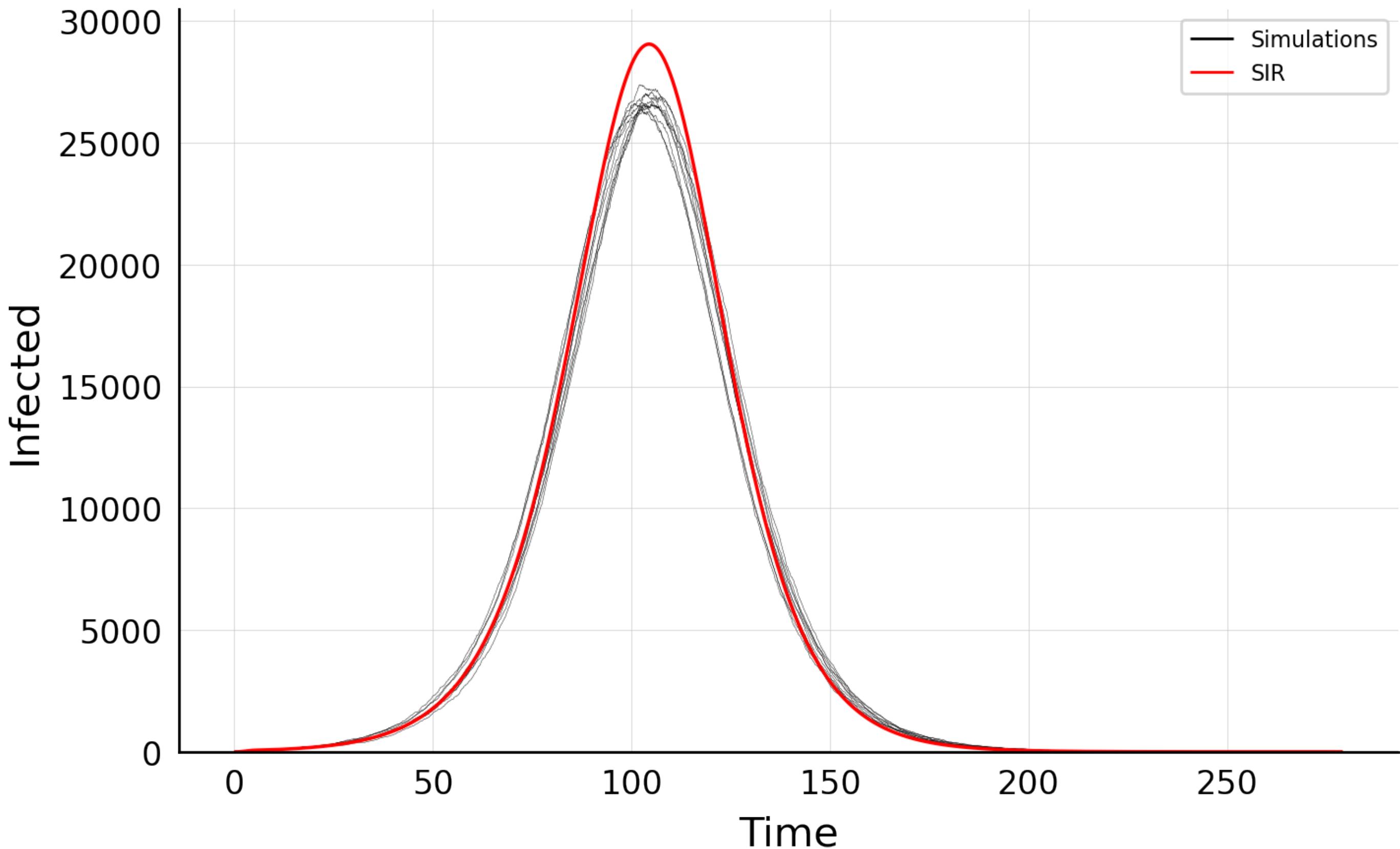
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 100.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 1$ ,  $\#10$



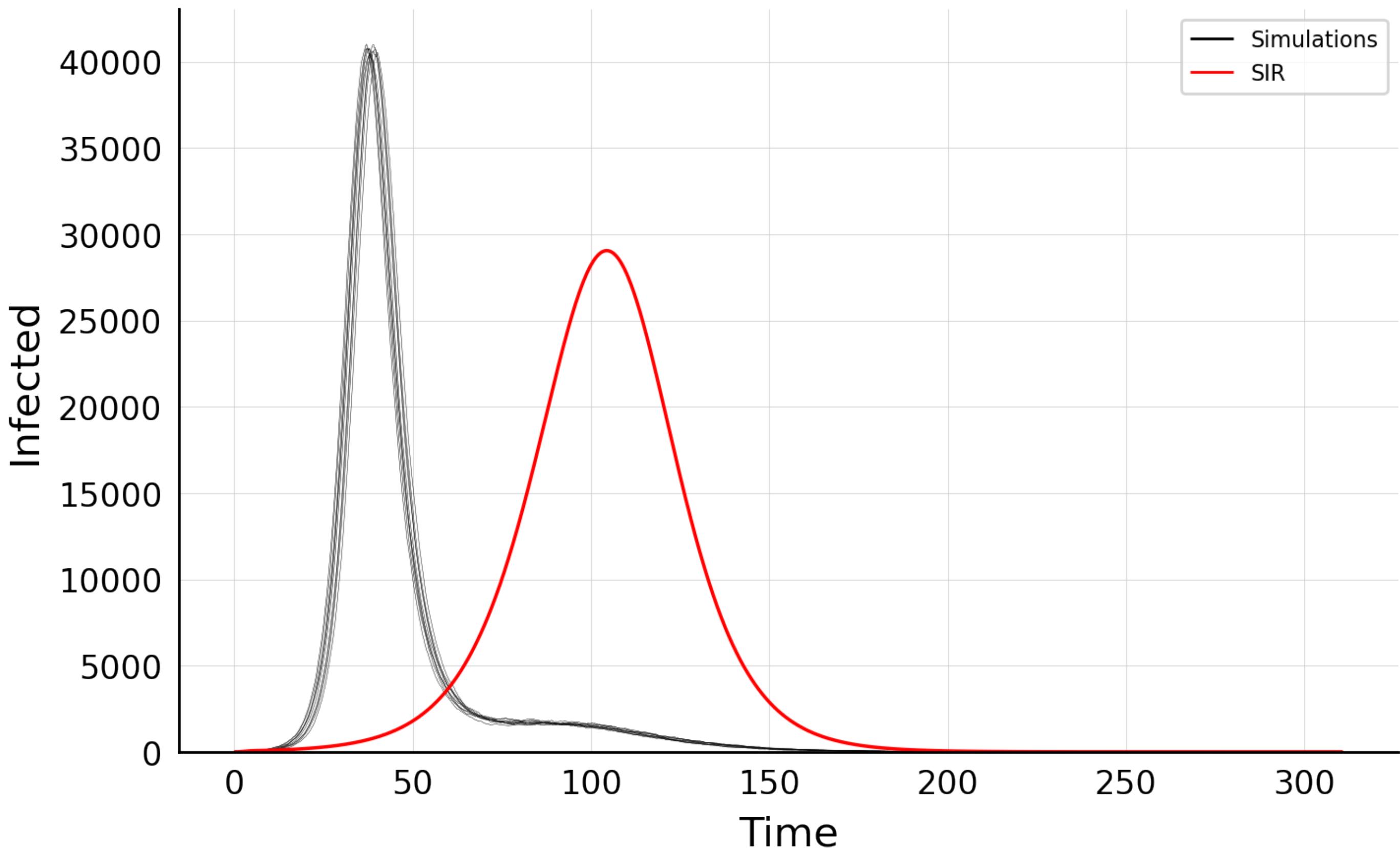
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 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



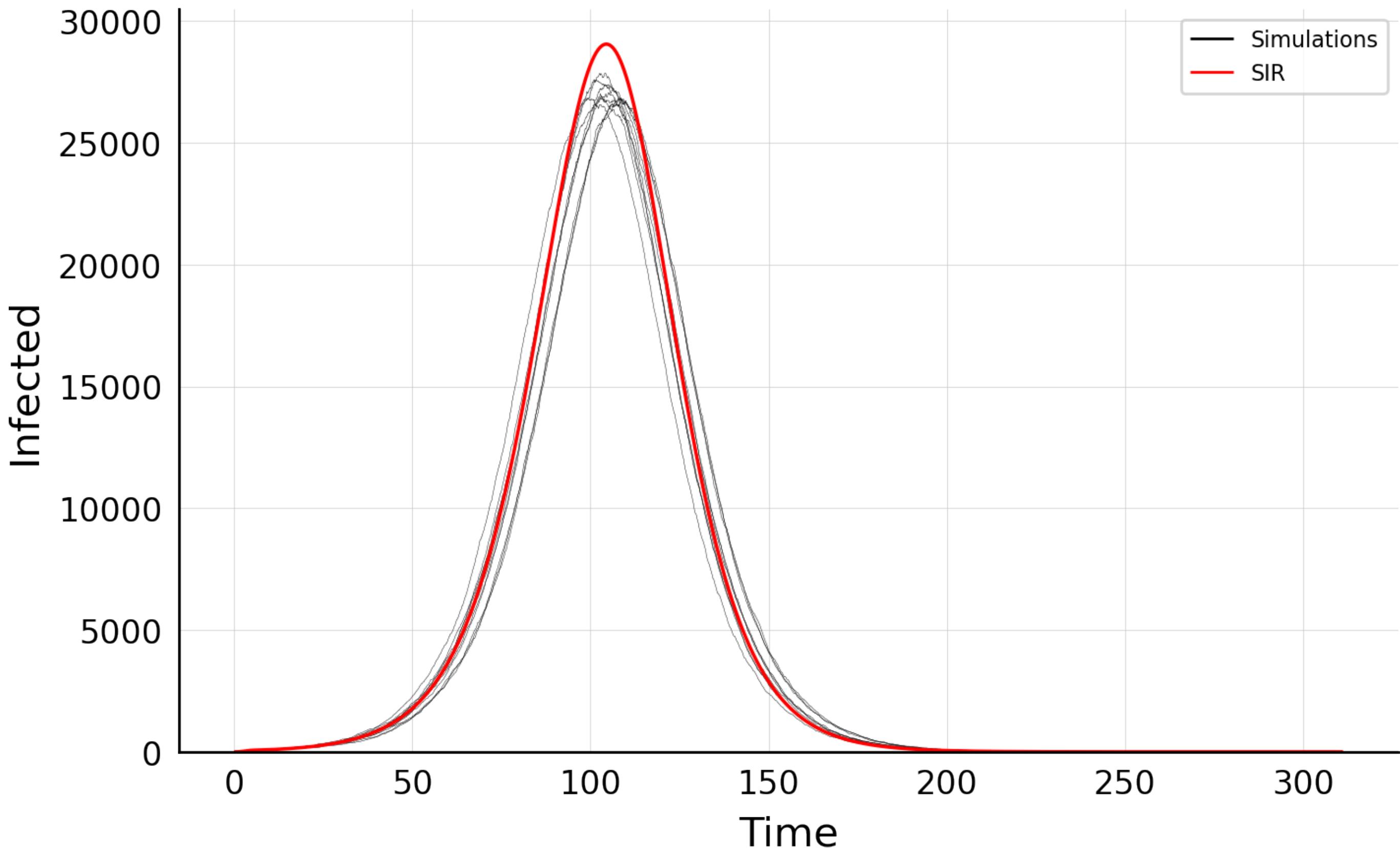
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 100.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.02$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 1$ ,  $\#10$



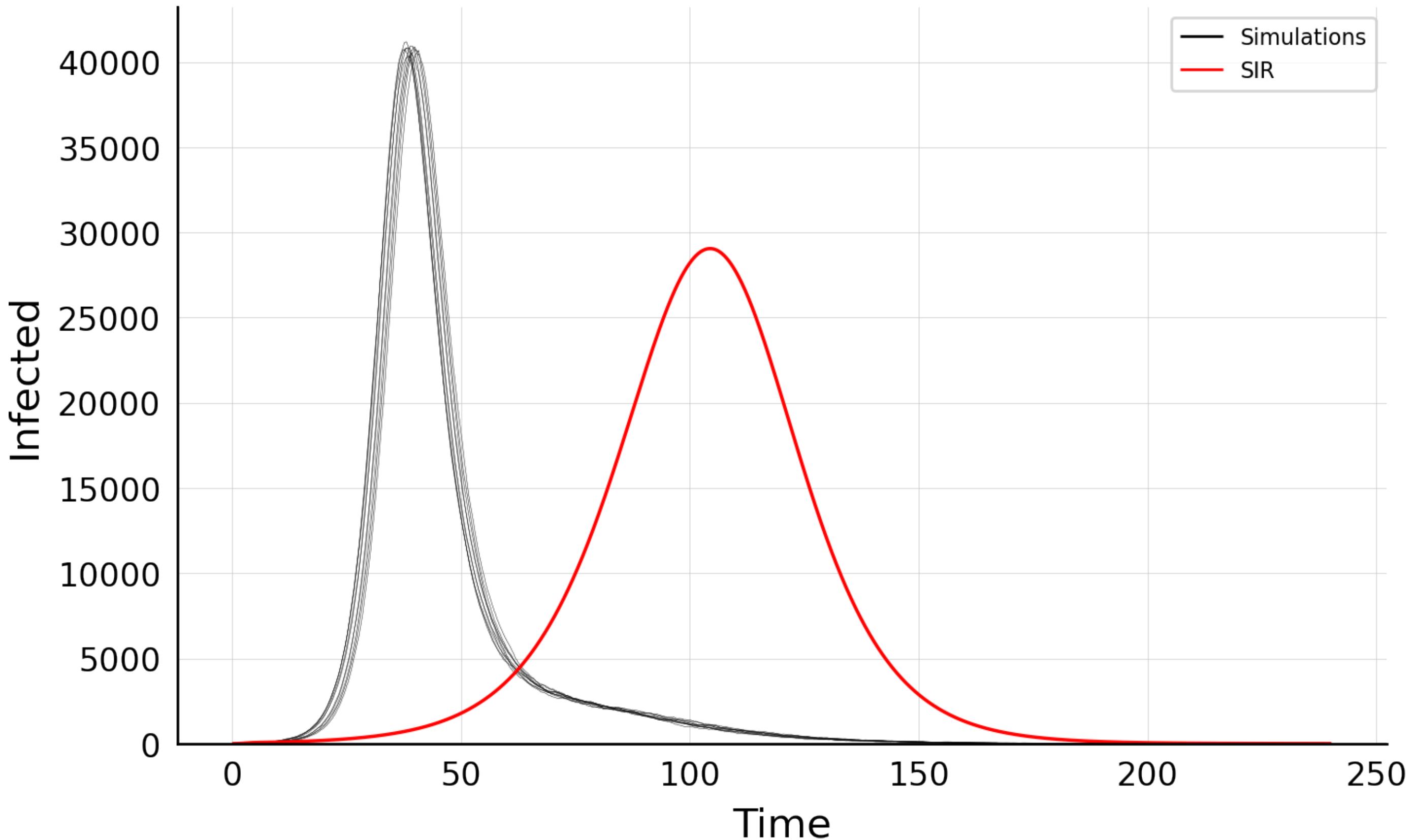
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 100.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.02$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



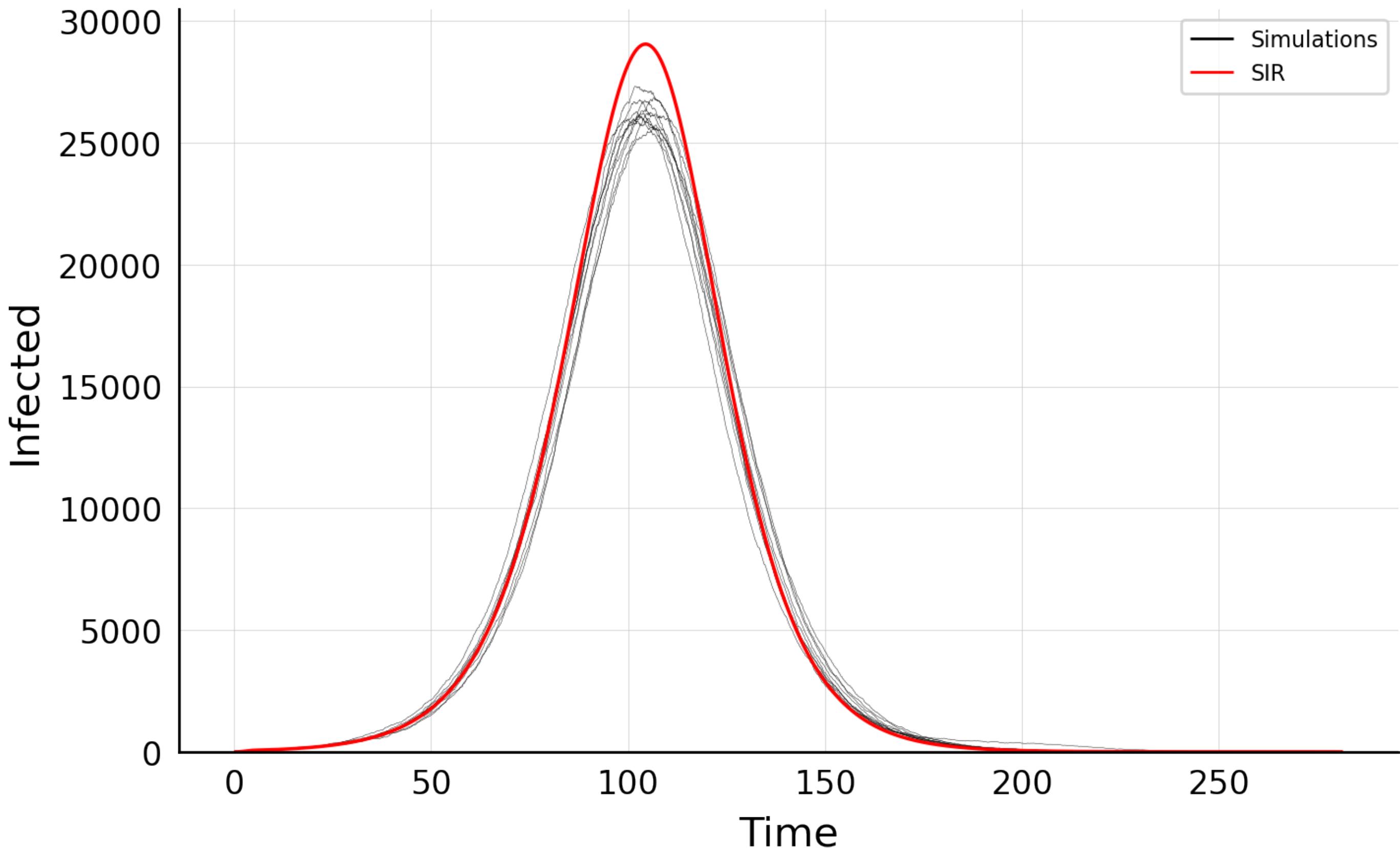
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 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.05$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 1$ , #10



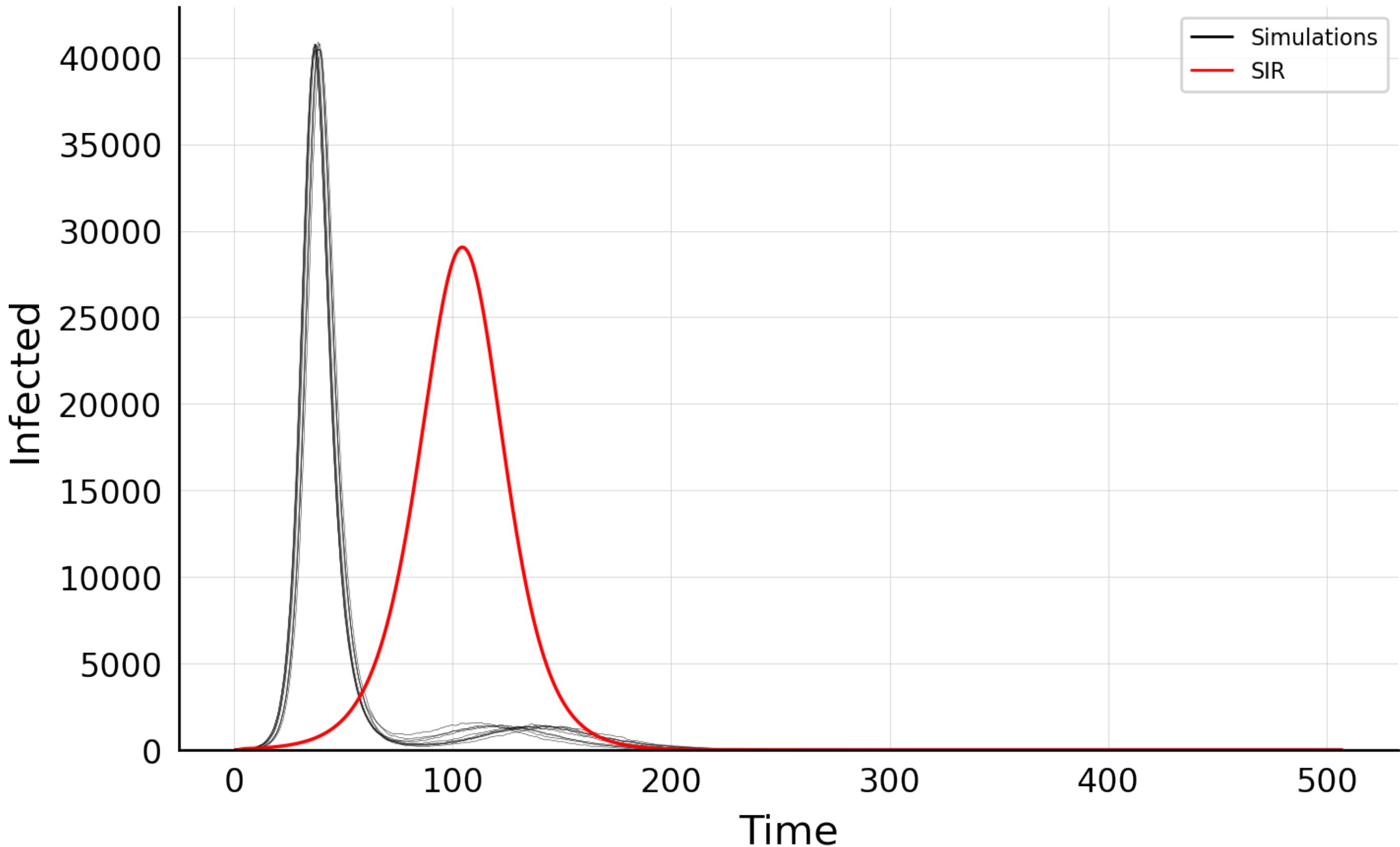
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 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.05$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



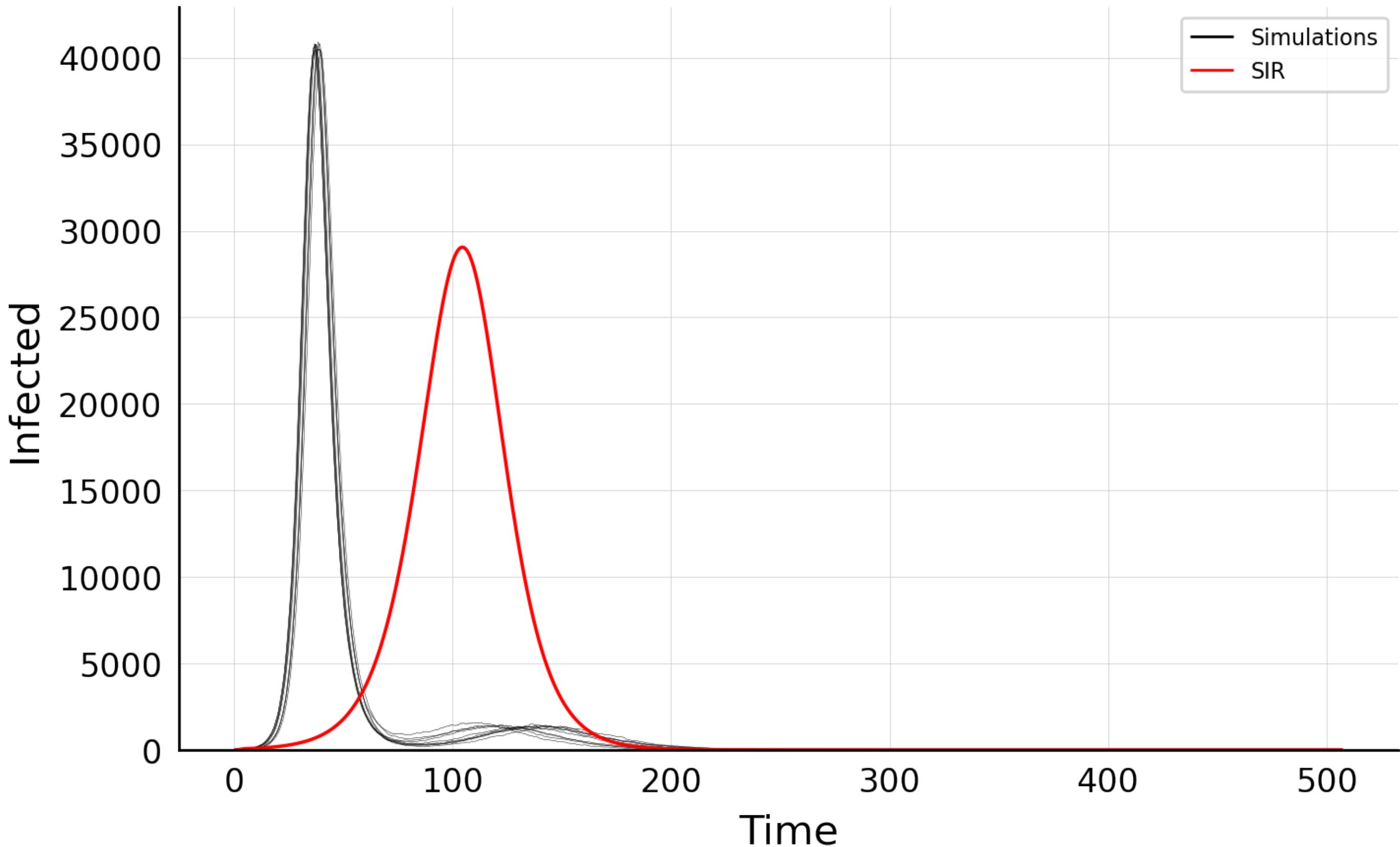
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 100.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.0$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 1$ , #10



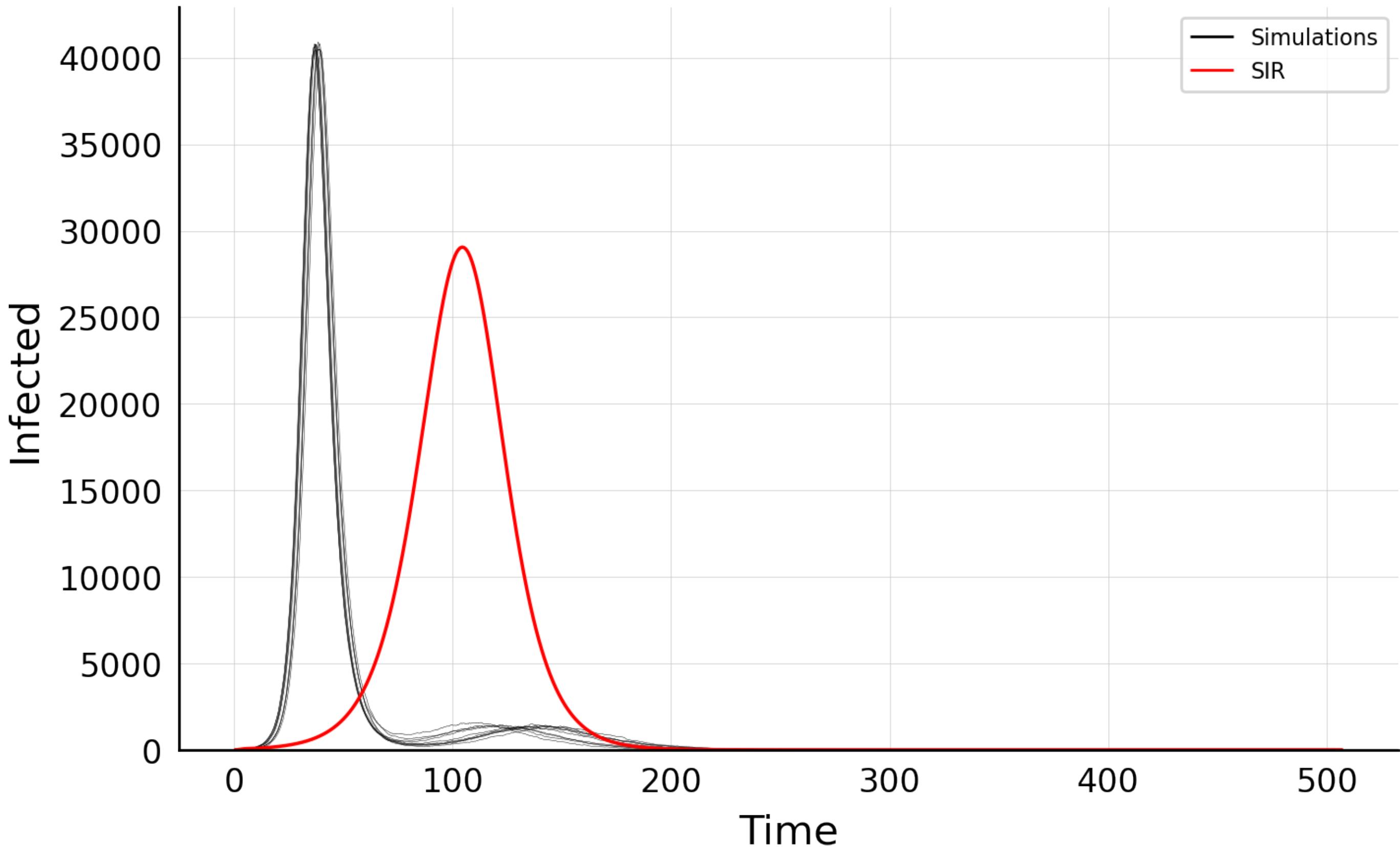
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 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.0$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



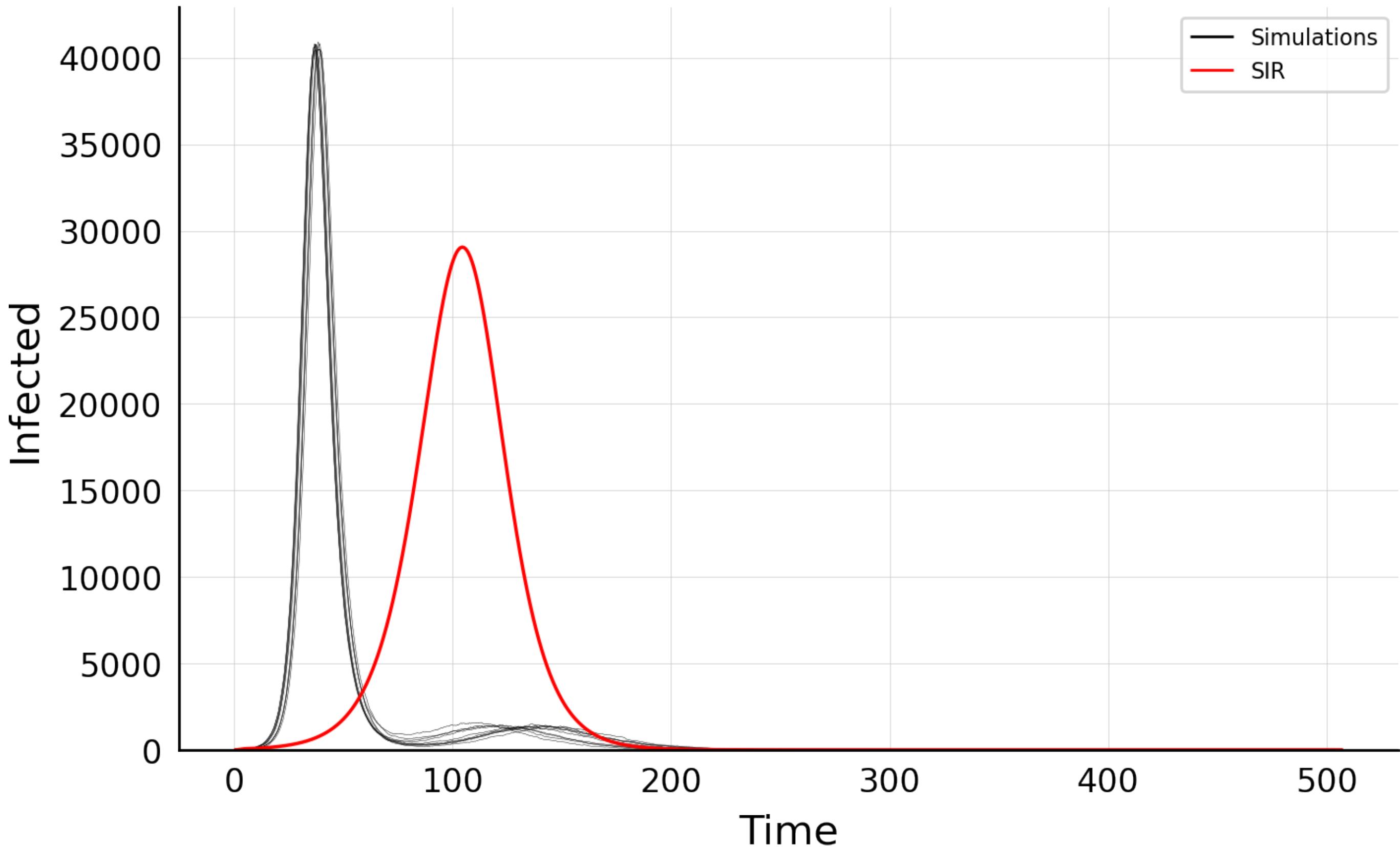
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 100.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.0$ ,  $\beta_{\text{scaling}} = 100.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



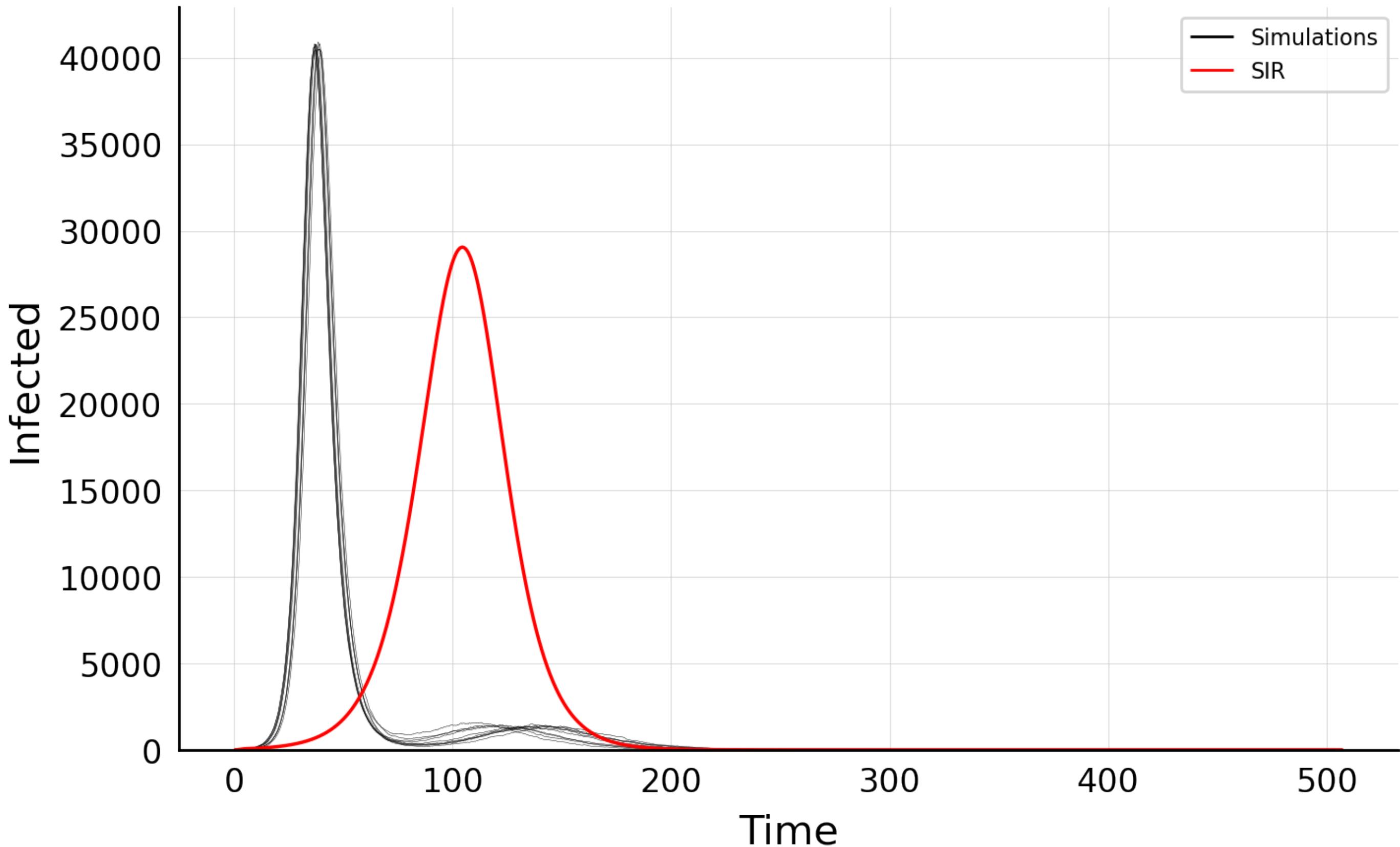
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 100.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.0$ ,  $\beta_{\text{scaling}} = 25.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



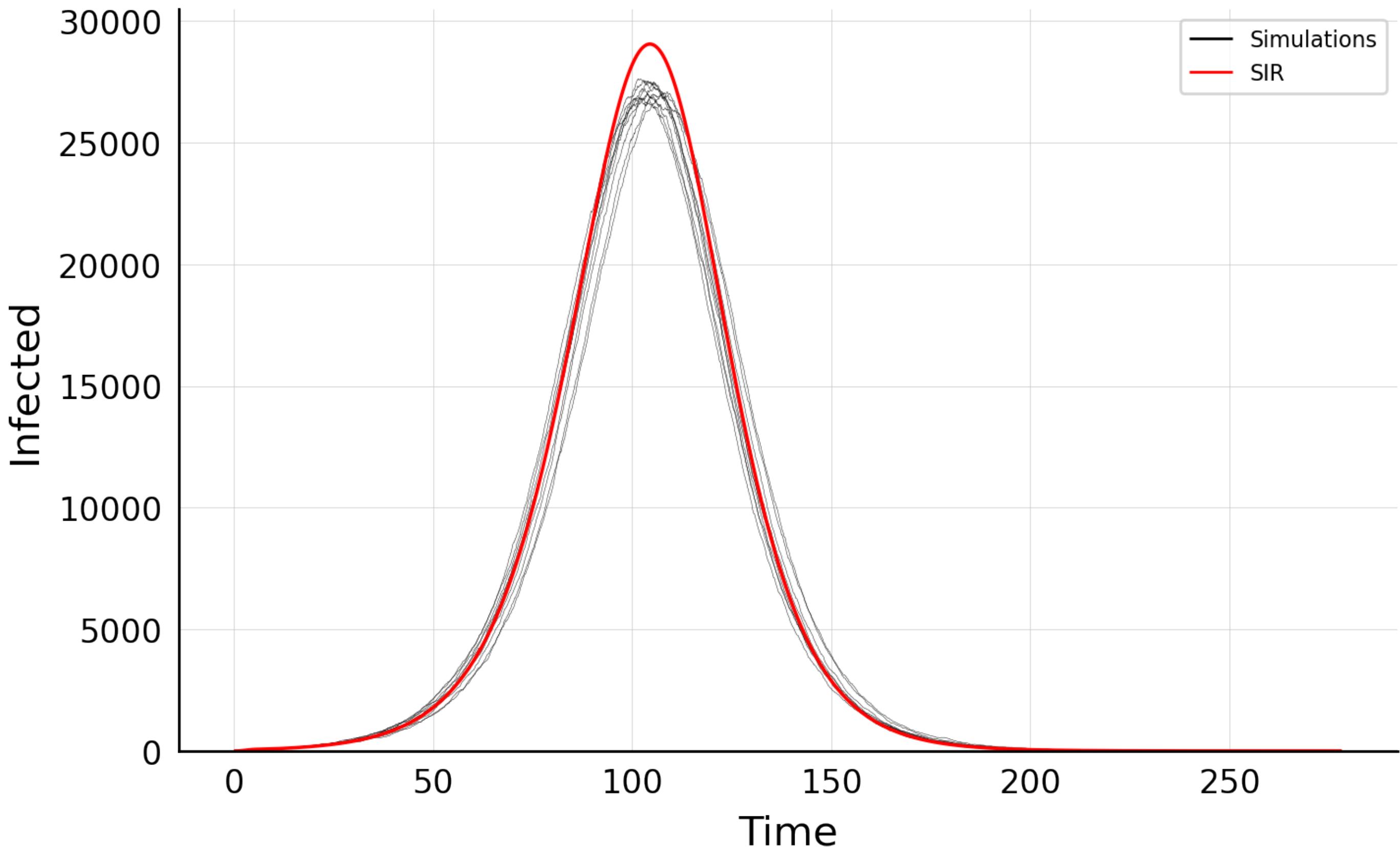
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 100.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.0$ ,  $\beta_{\text{scaling}} = 50.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



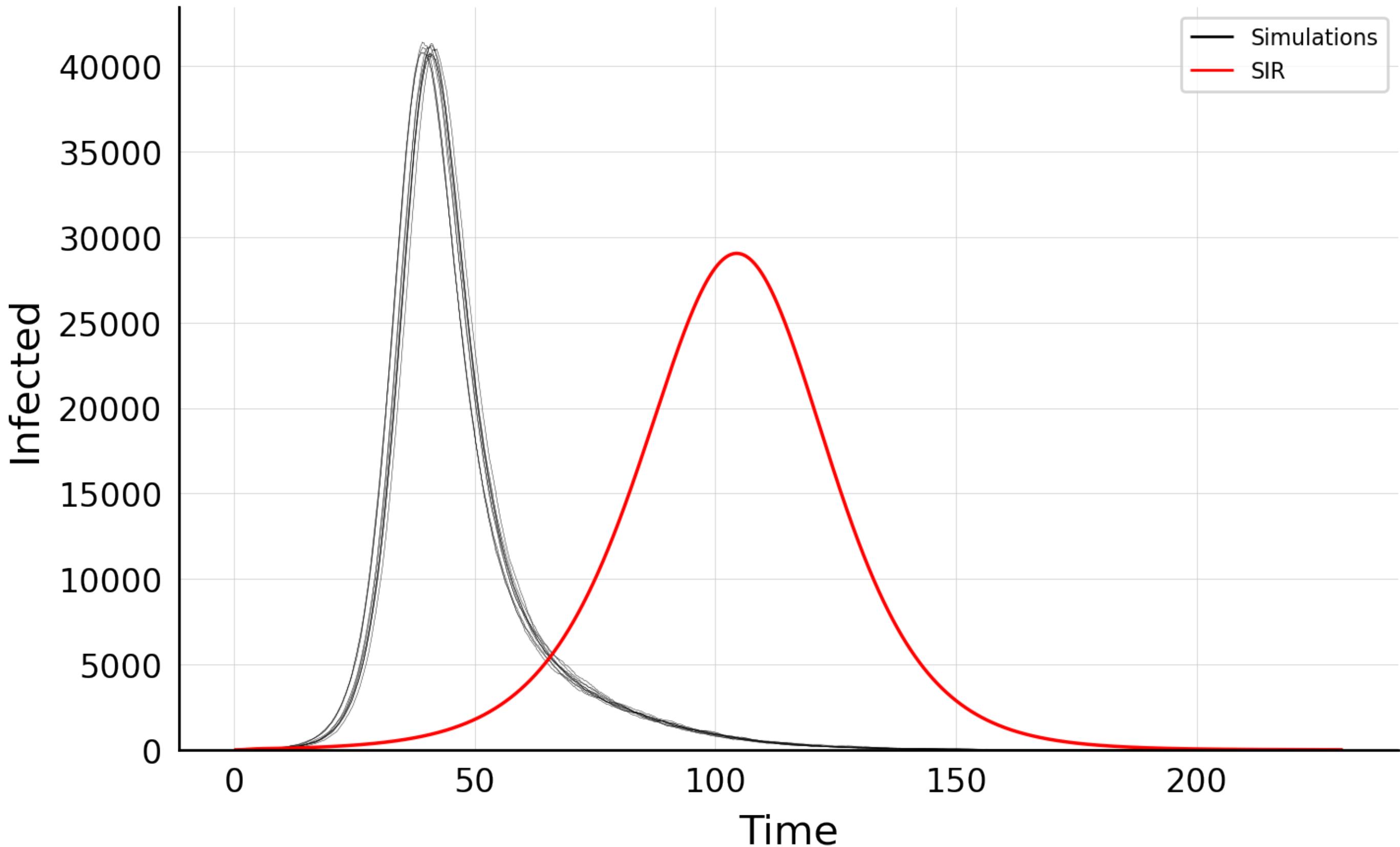
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 100.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.0$ ,  $\beta_{\text{scaling}} = 75.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



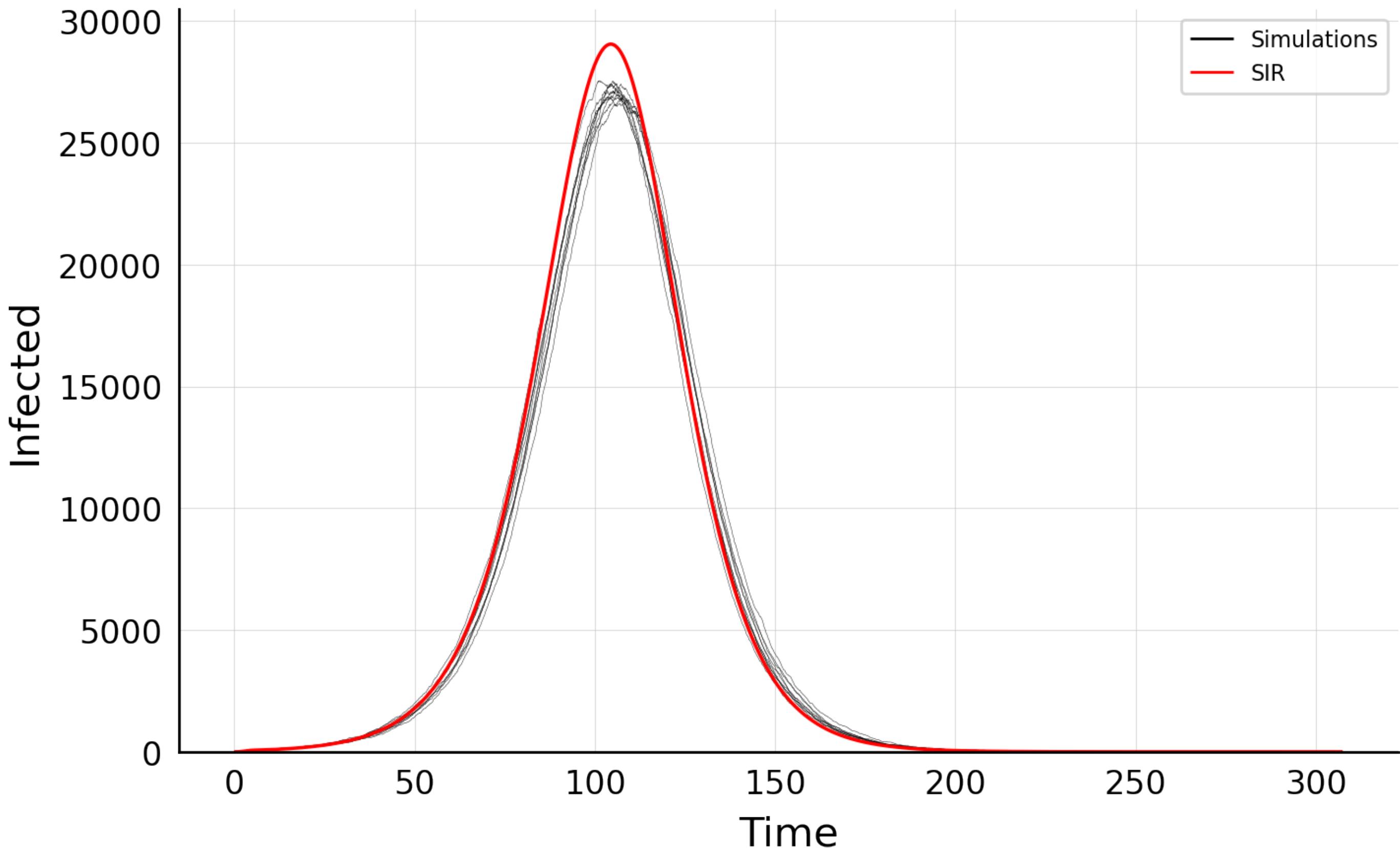
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 100.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.1$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 1$ , #10



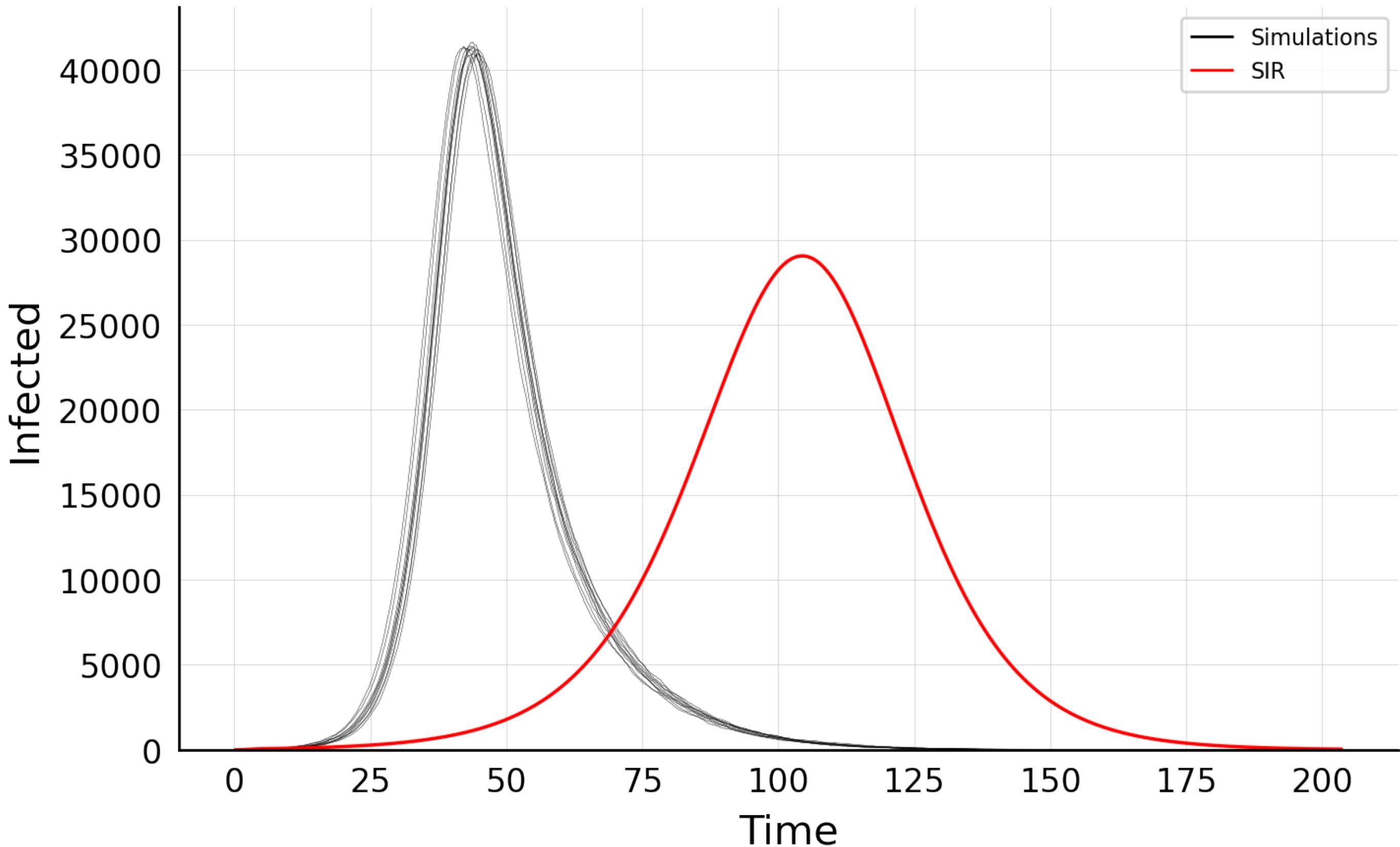
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 100.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.1$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



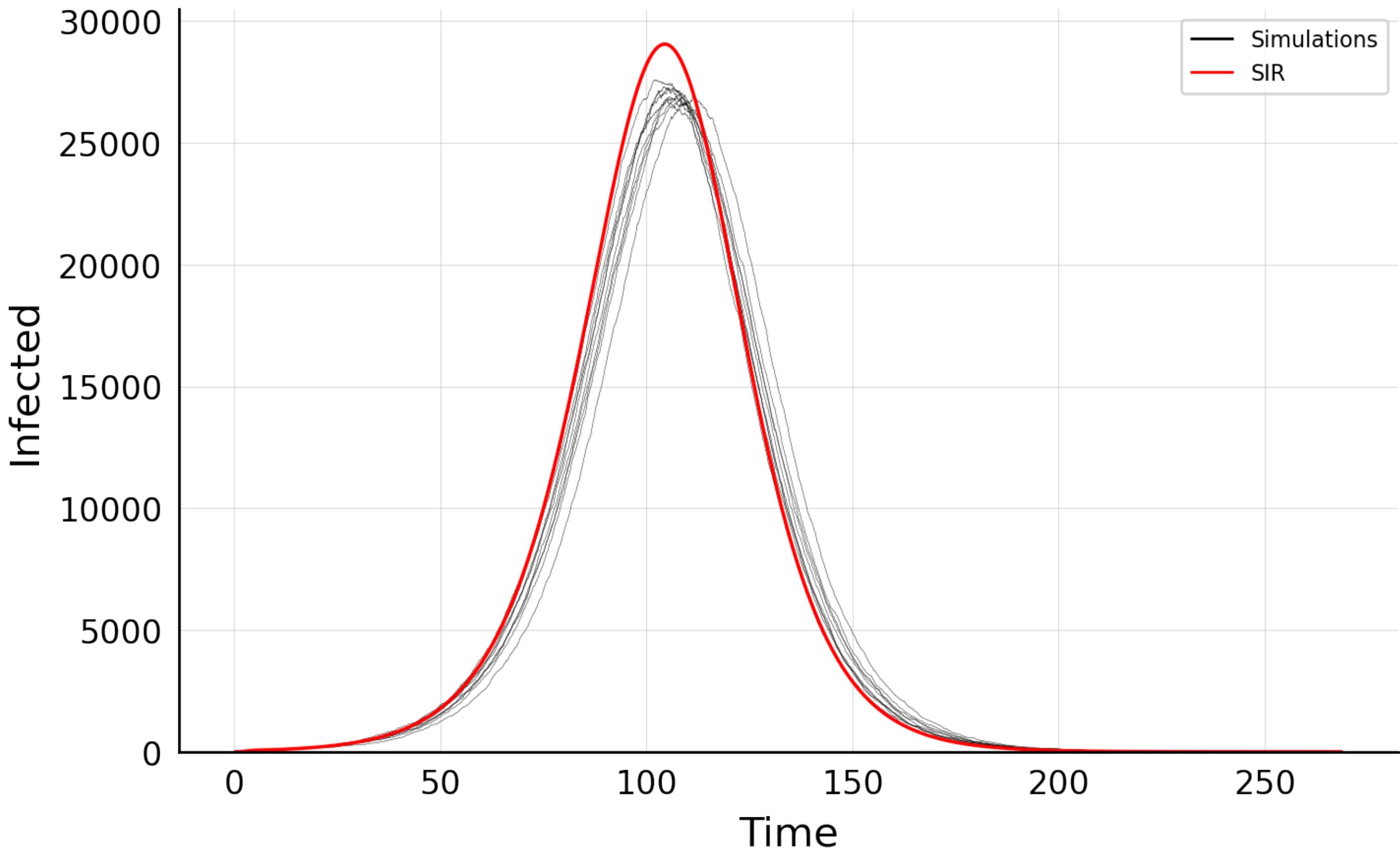
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 100.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.2$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 1$ , #10



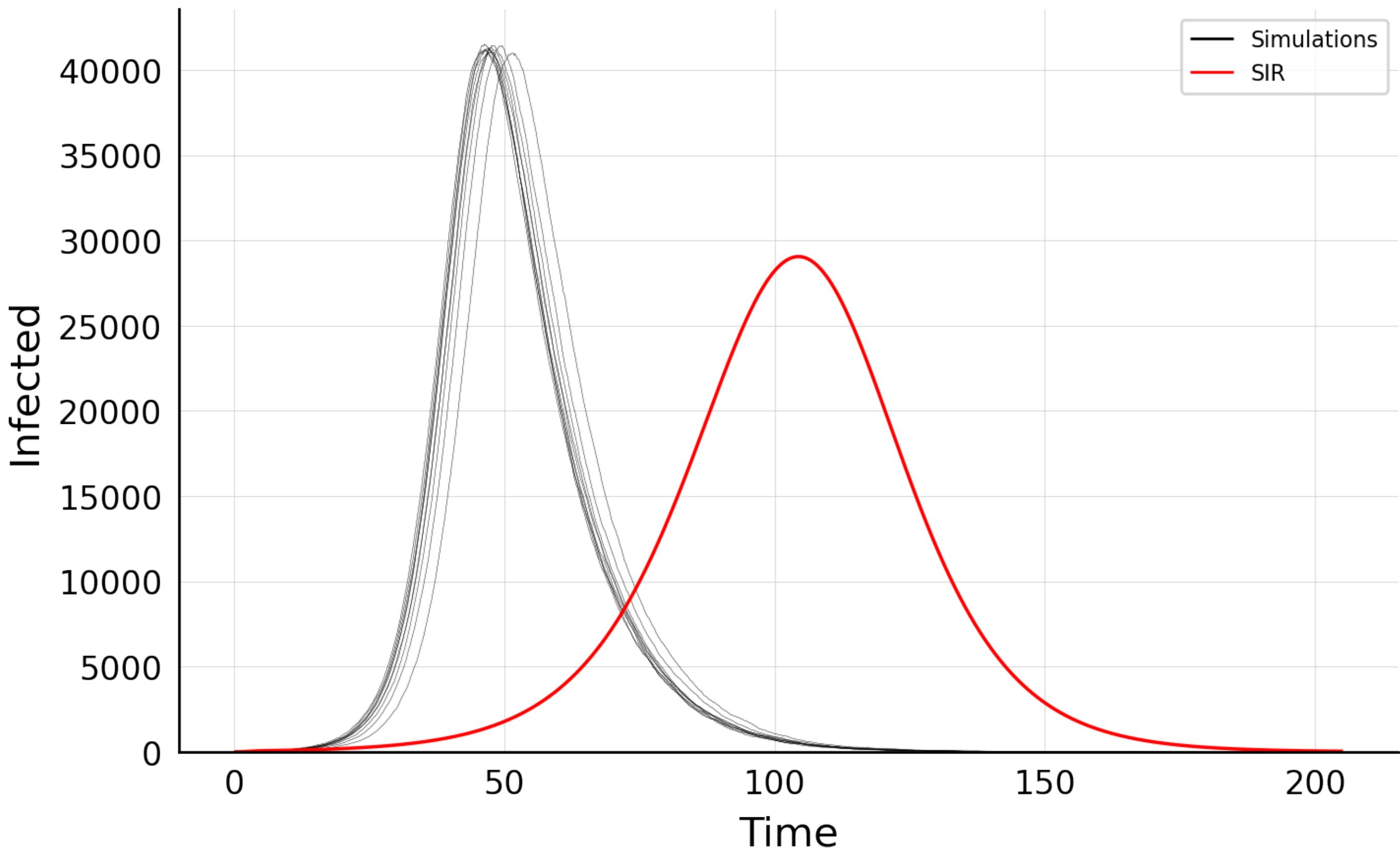
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 100.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.2$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



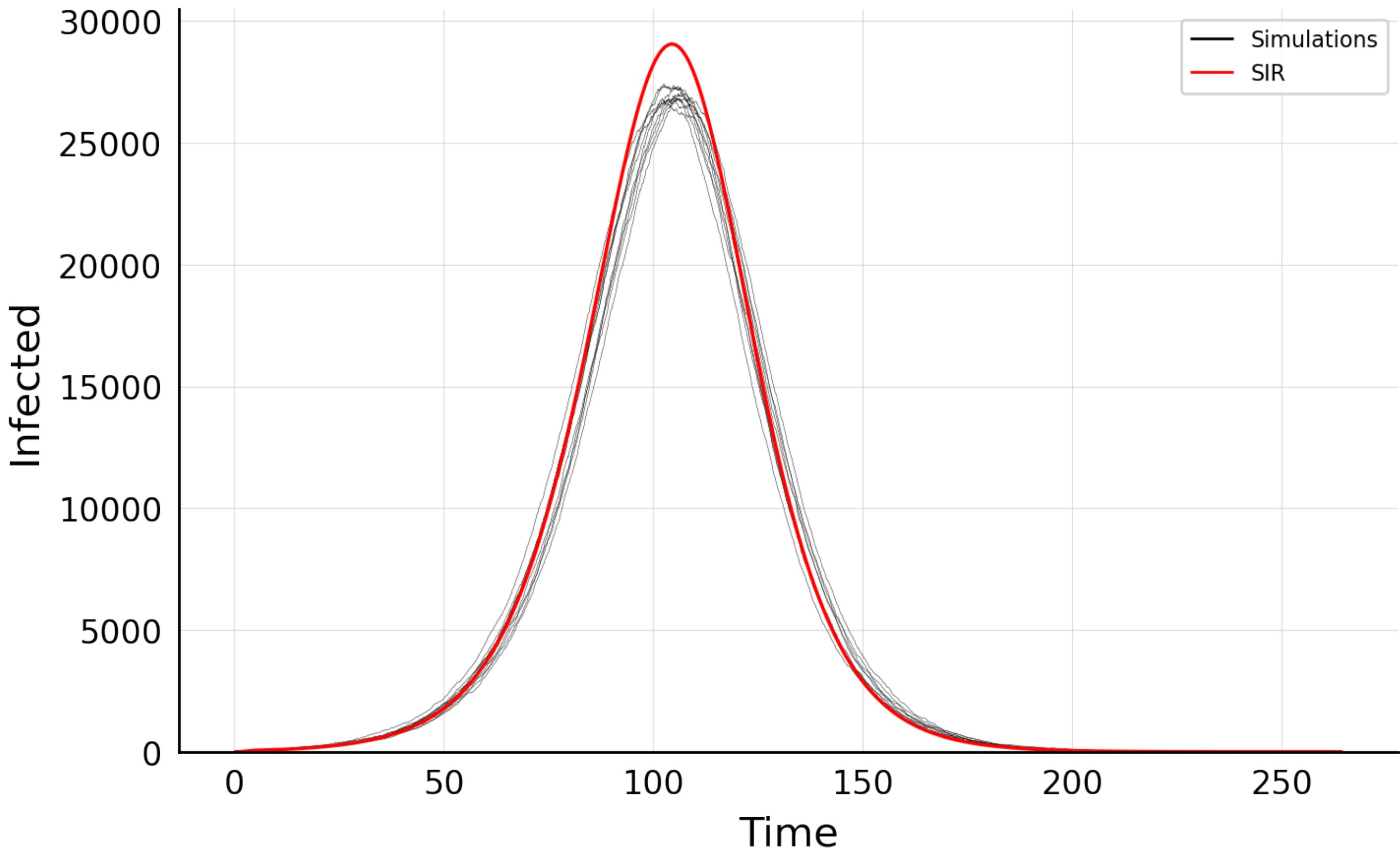
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 100.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.3$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 1$ , #10



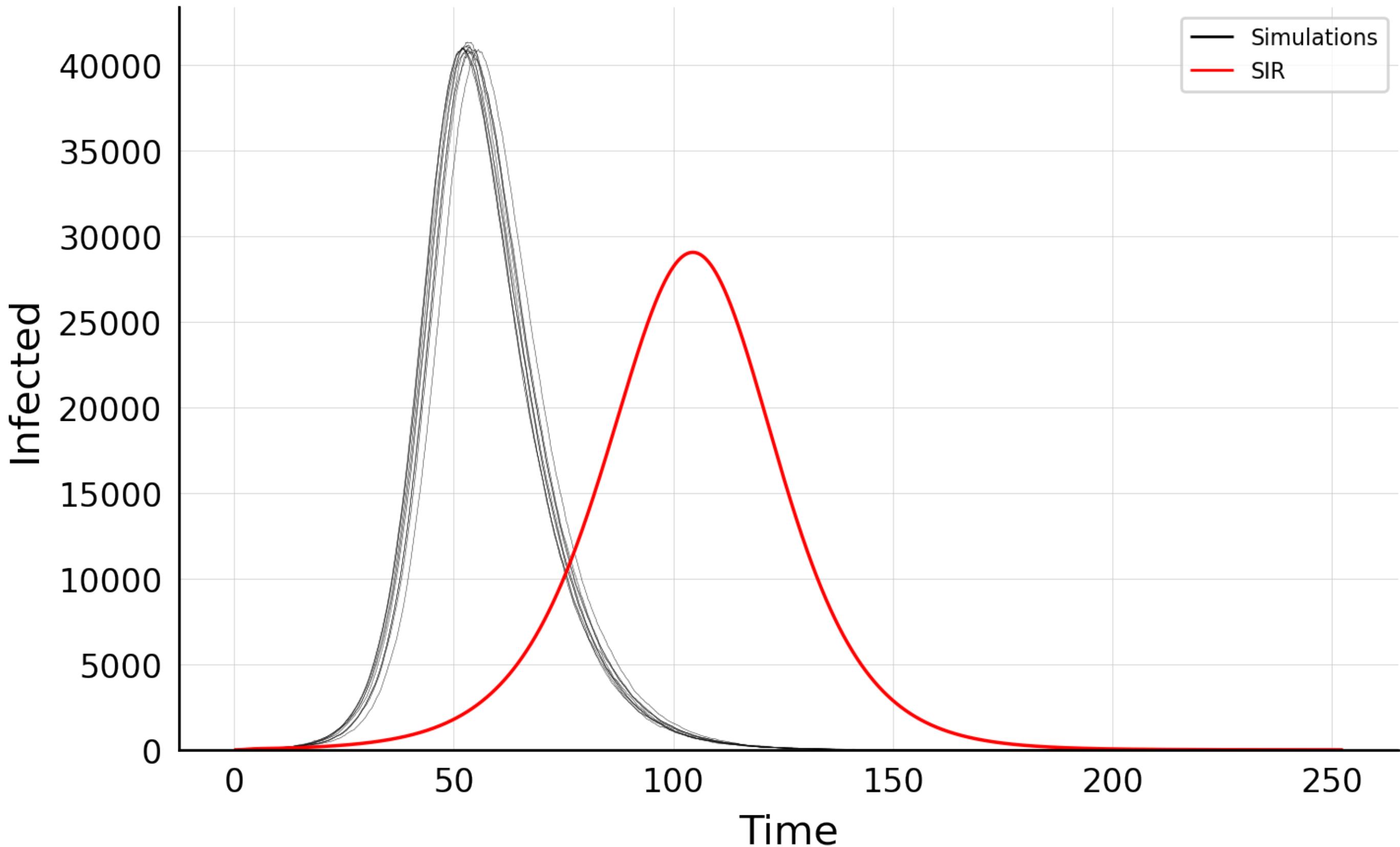
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 100.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.3$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



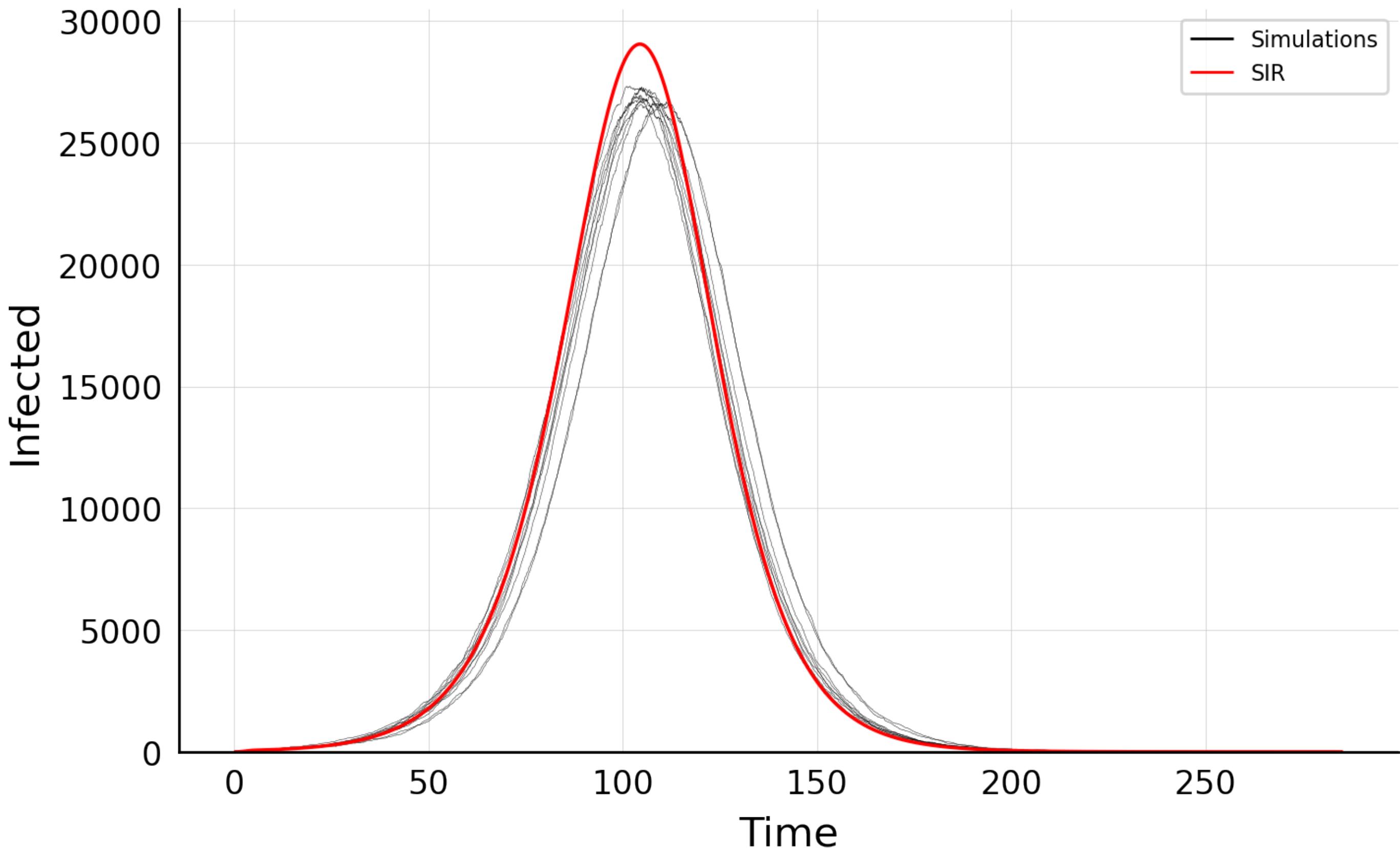
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 100.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.4$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 1$ , #10



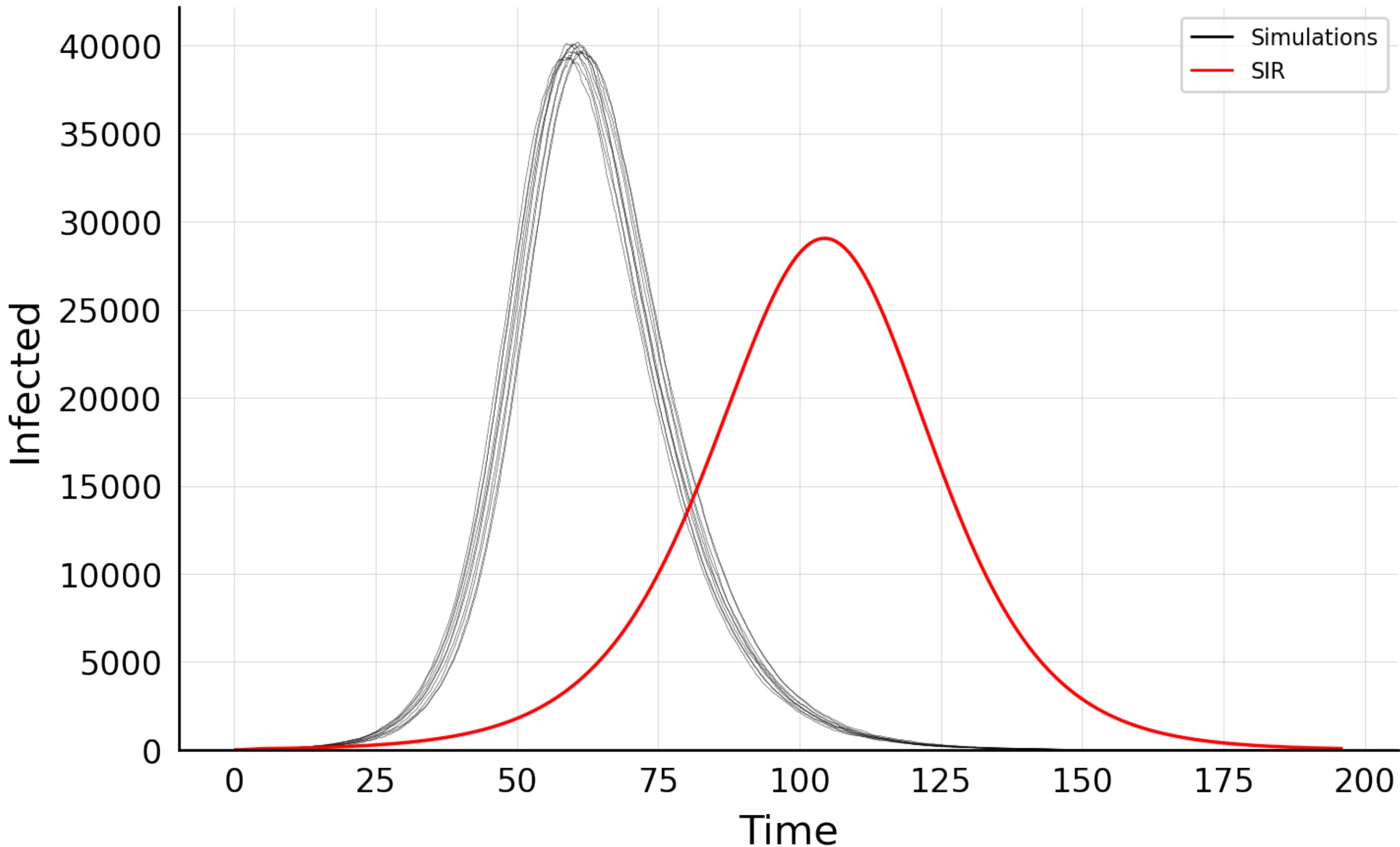
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 100.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.4$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



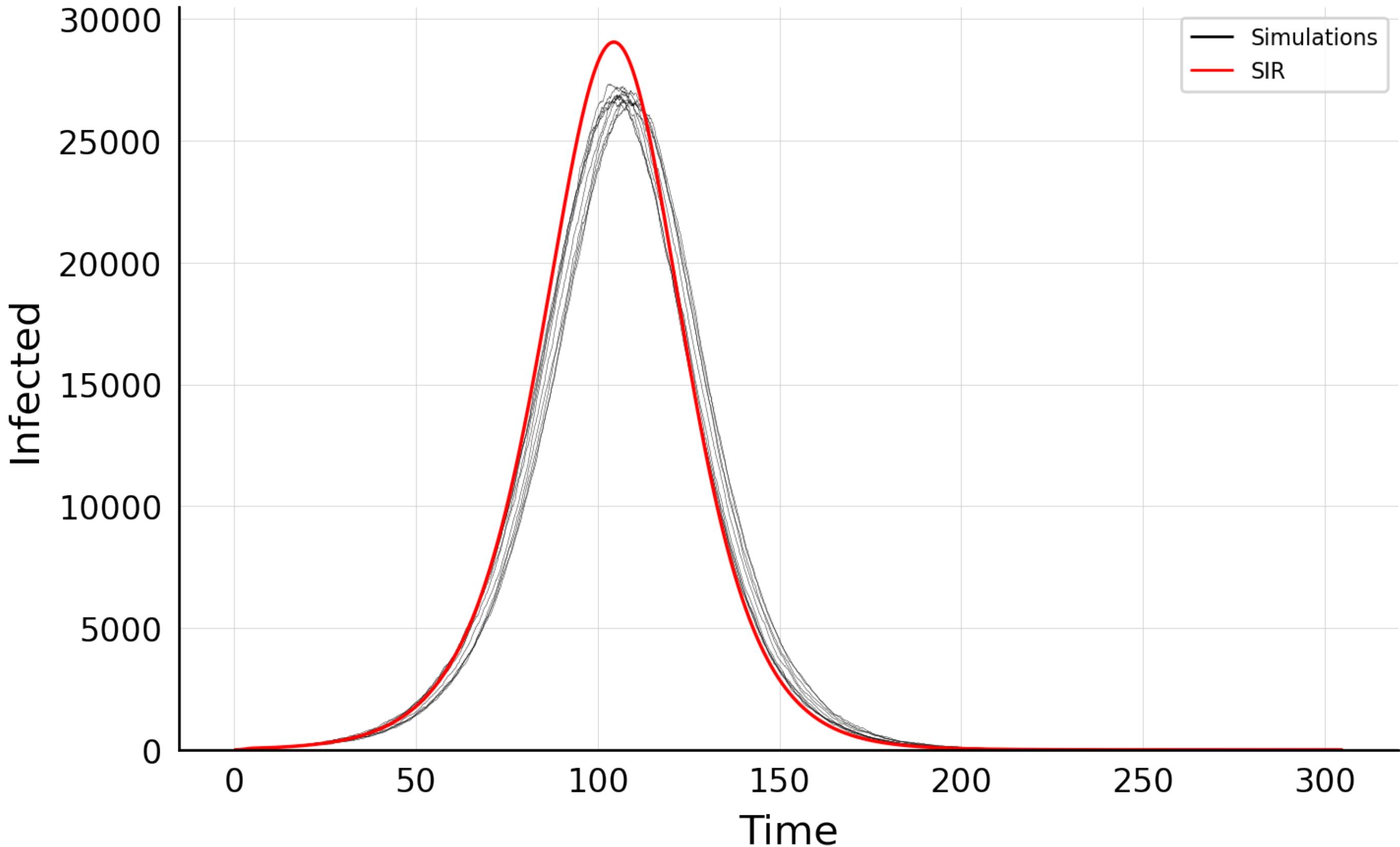
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 100.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.5$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 1$ , #10



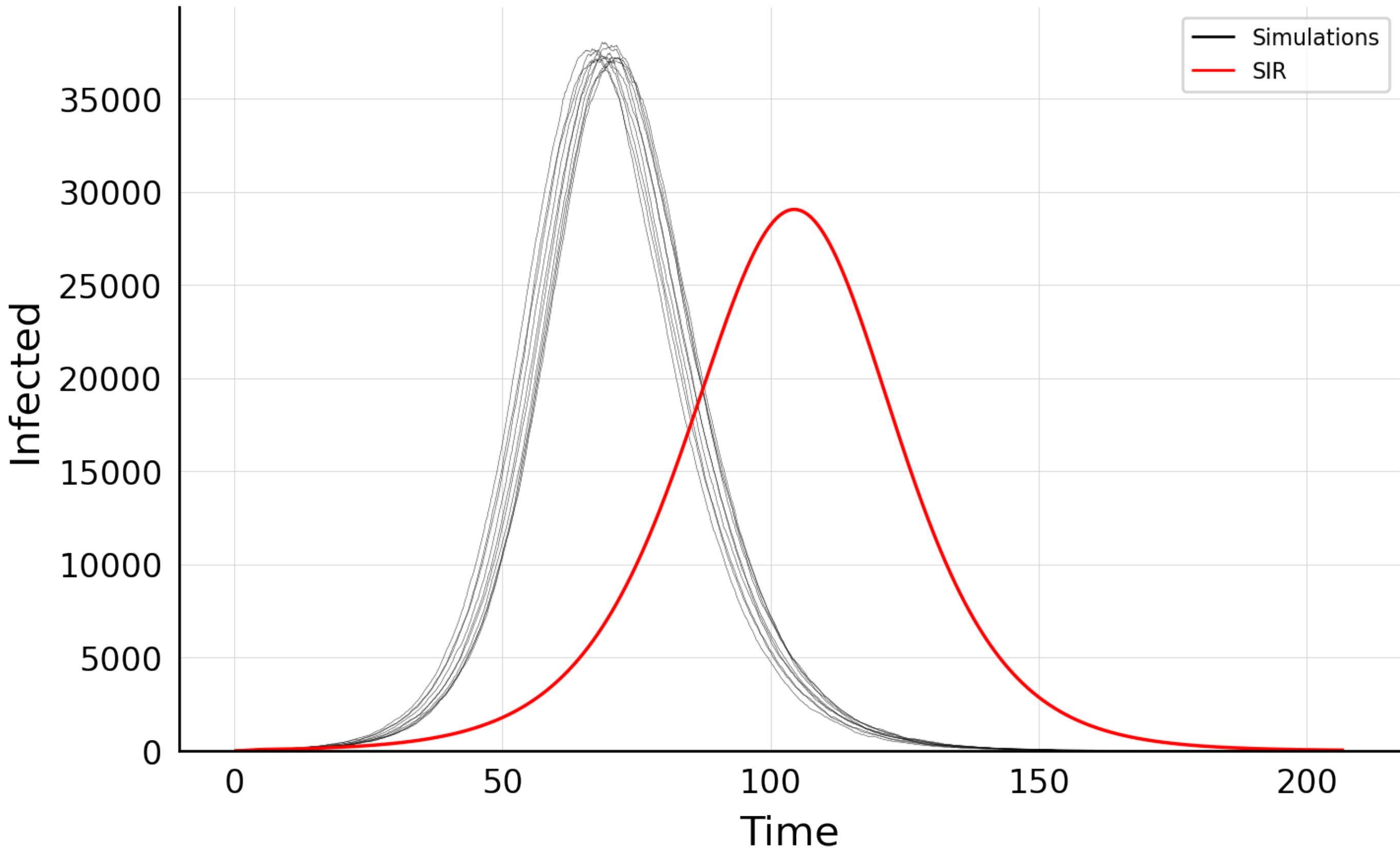
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 100.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.5$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



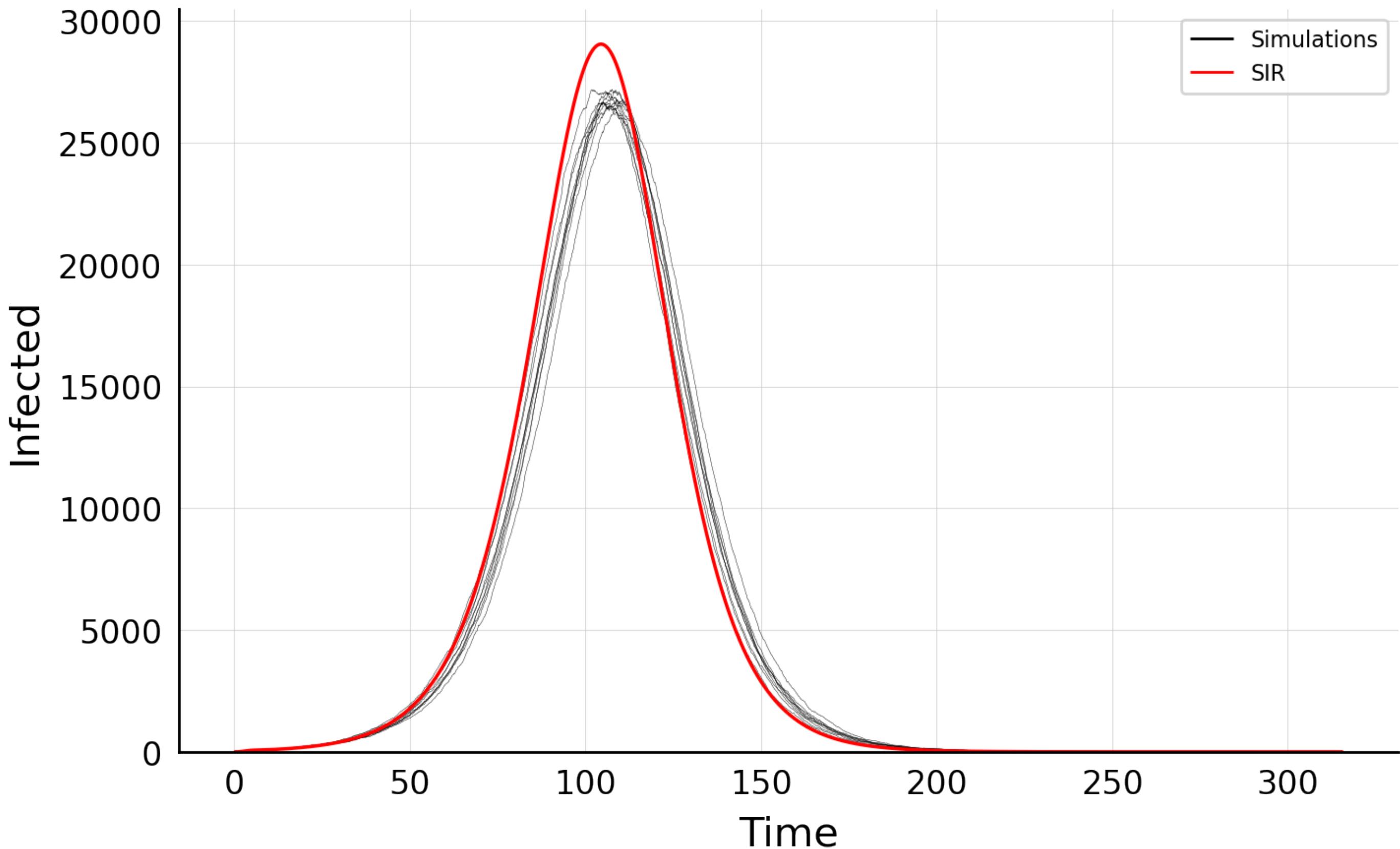
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 100.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.6$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 1$ , #10



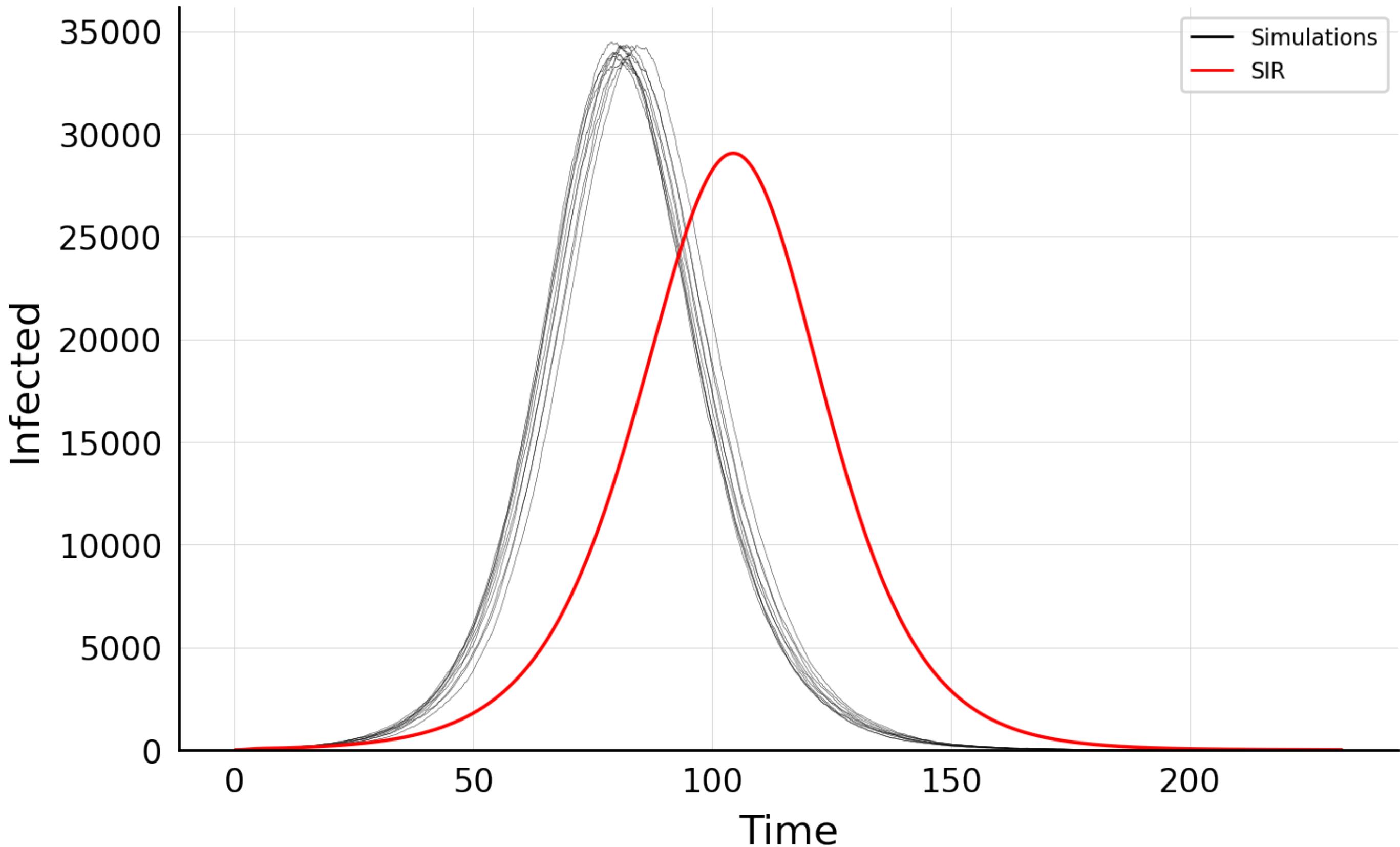
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 100.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.6$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



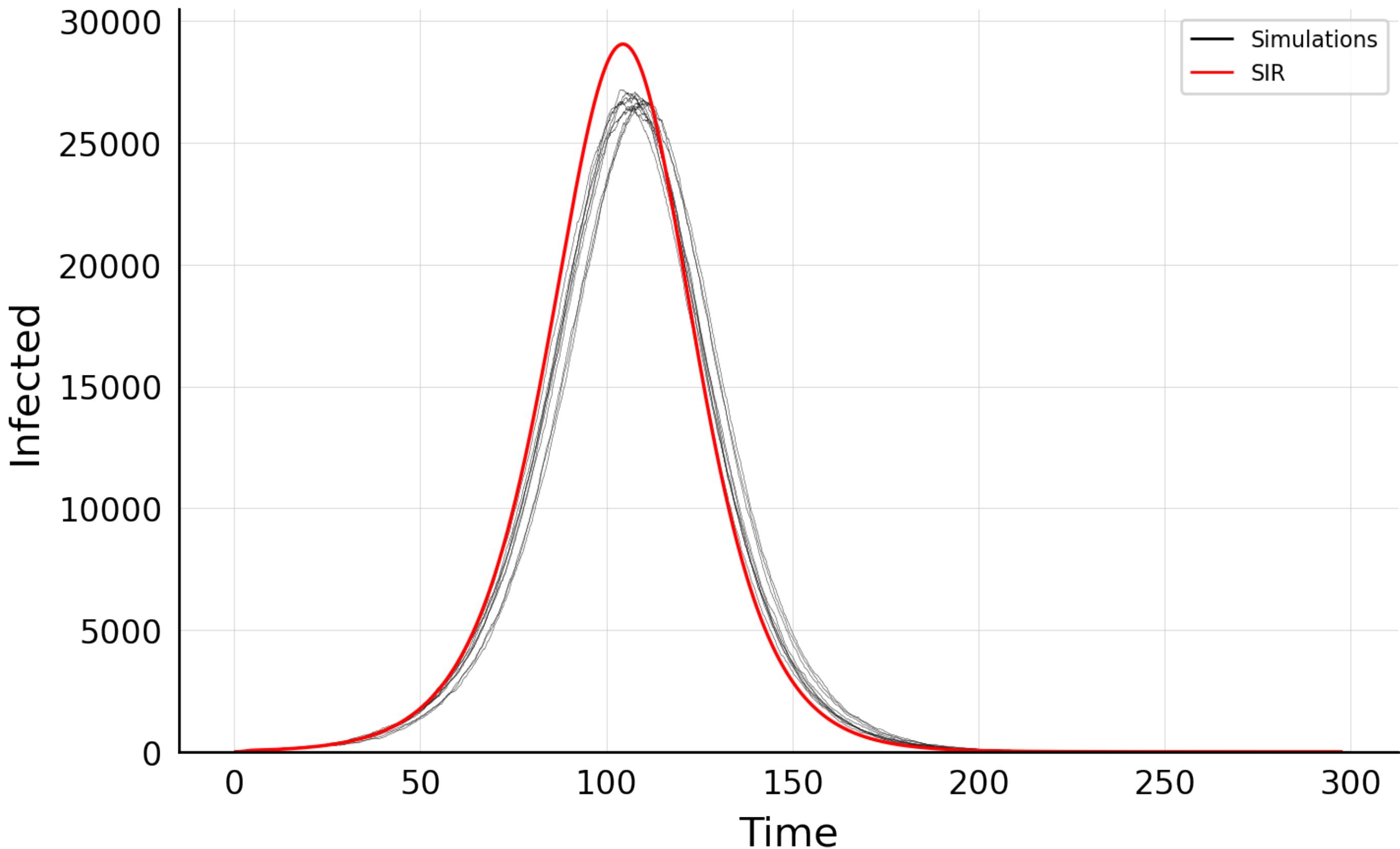
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 100.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.7$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 1$ , #10



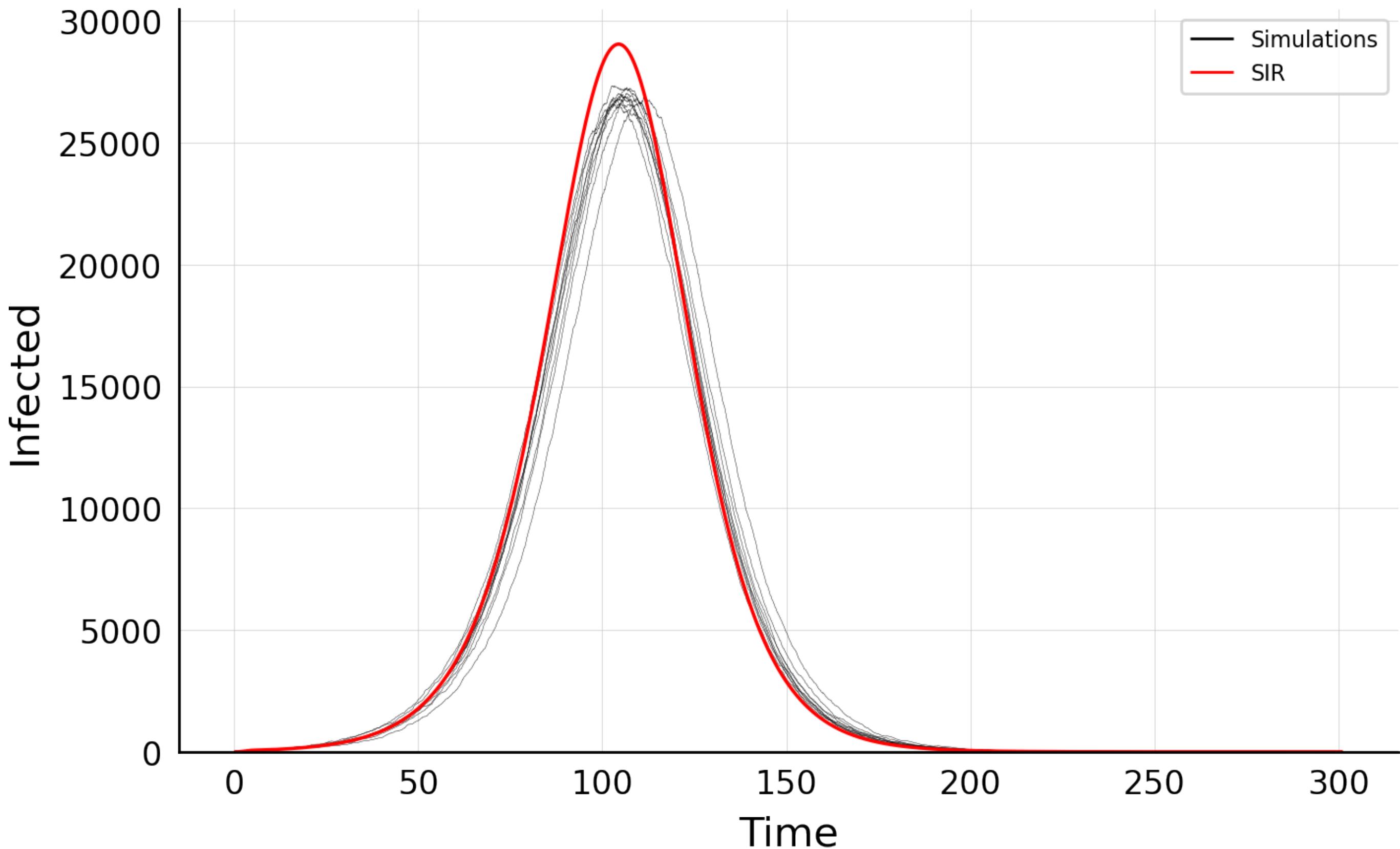
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 100.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.7$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



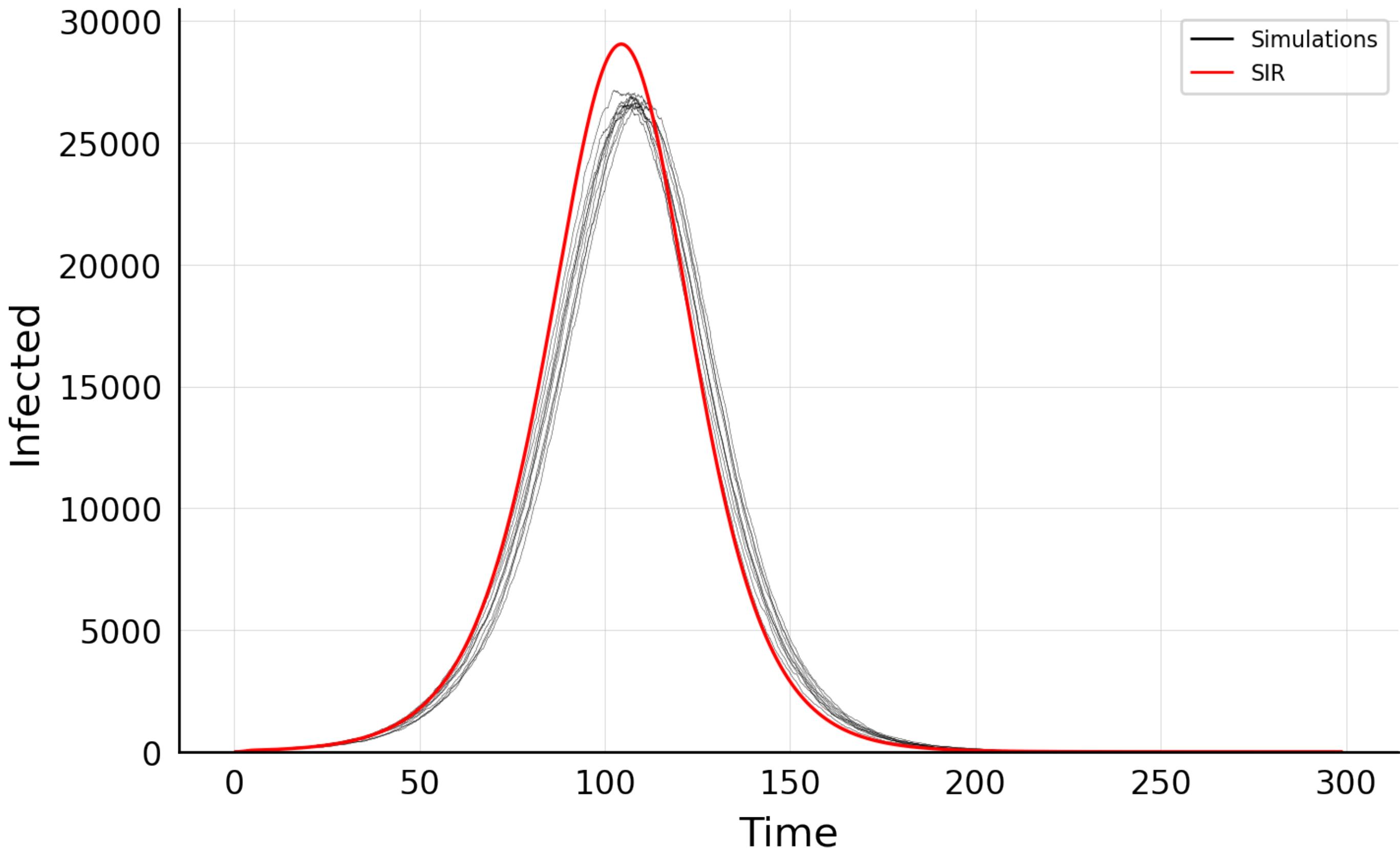
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 100.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.95$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 1$ ,  $\#10$



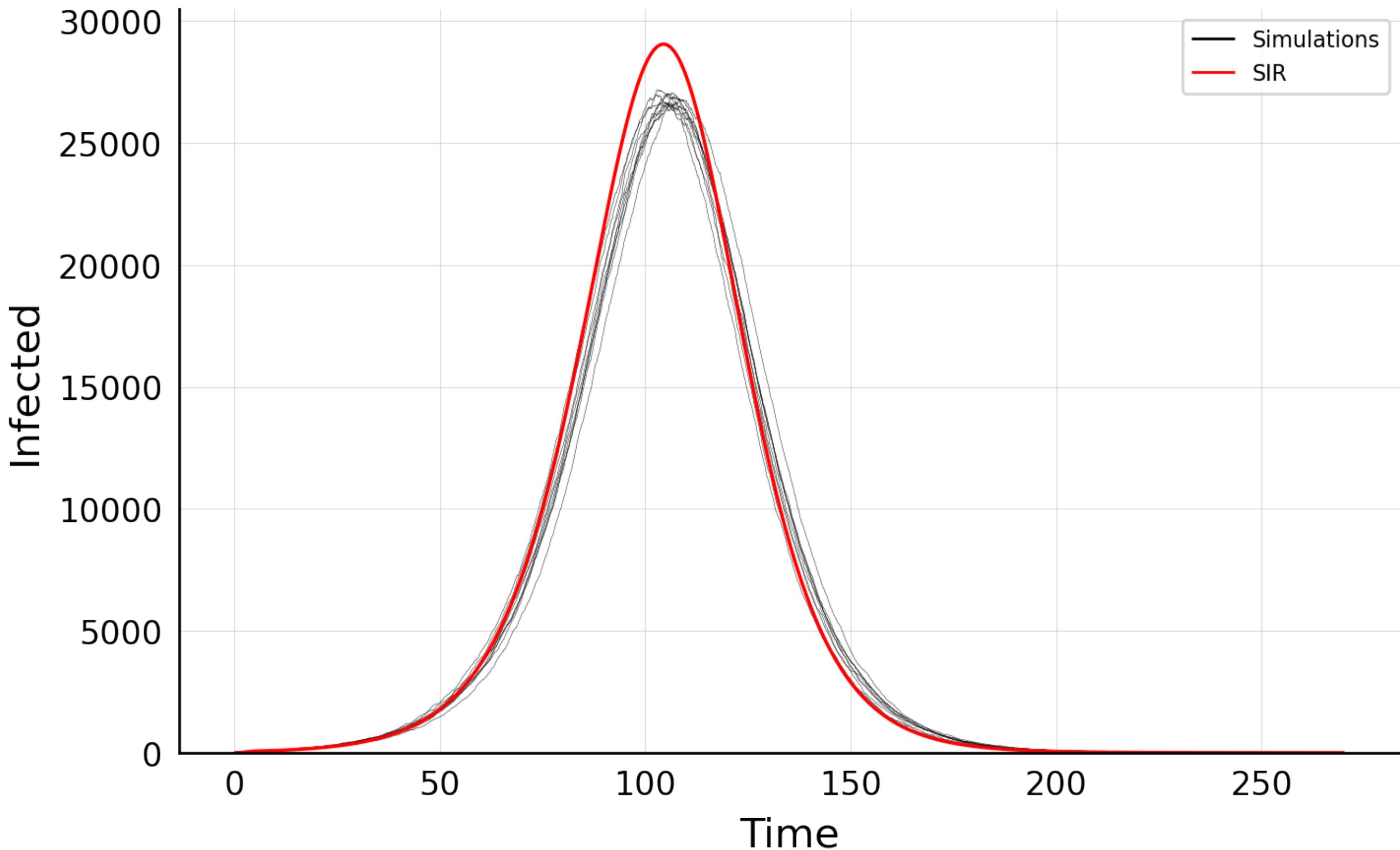
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 100.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.95$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



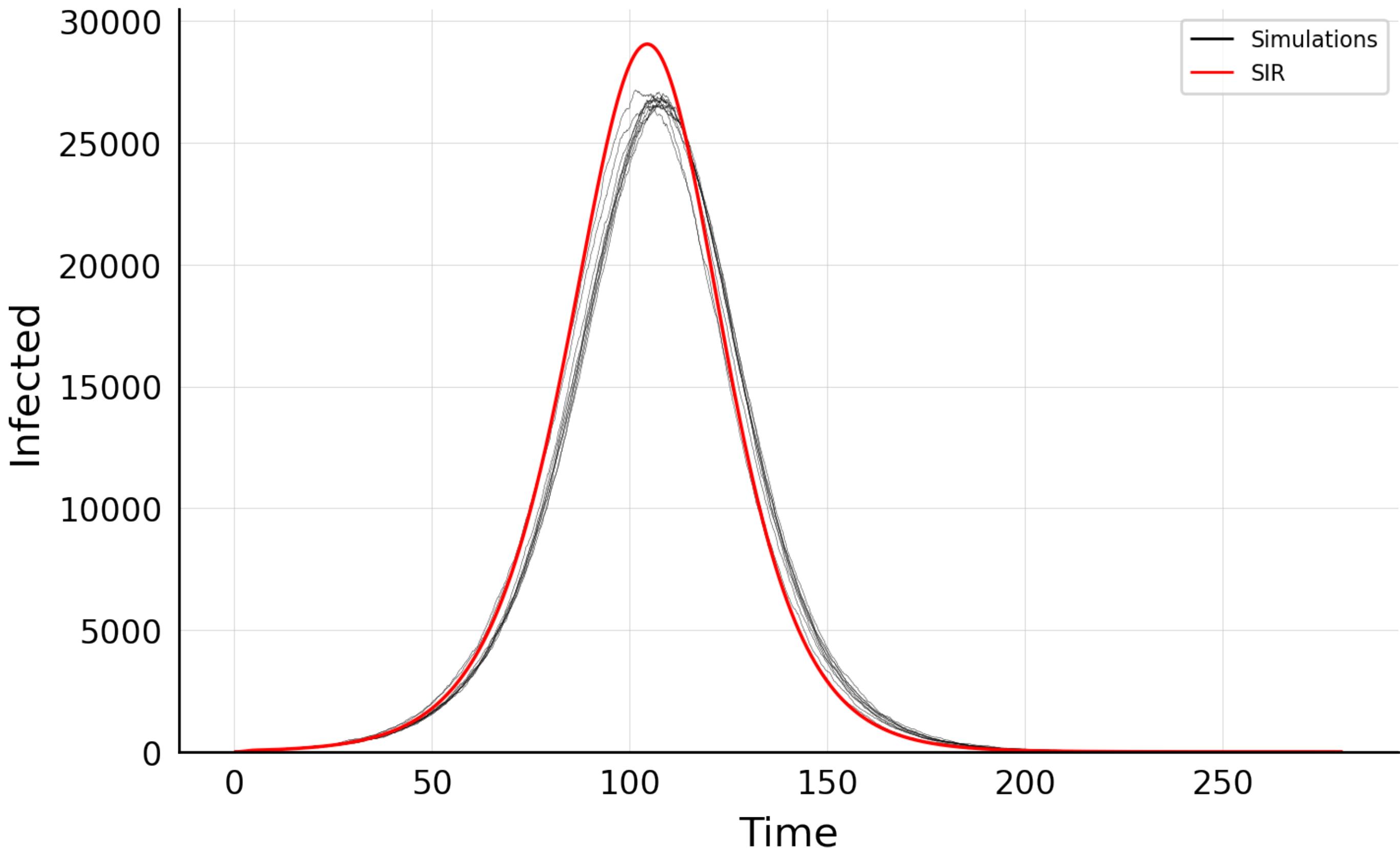
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 100.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.99$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 1$ ,  $\#10$



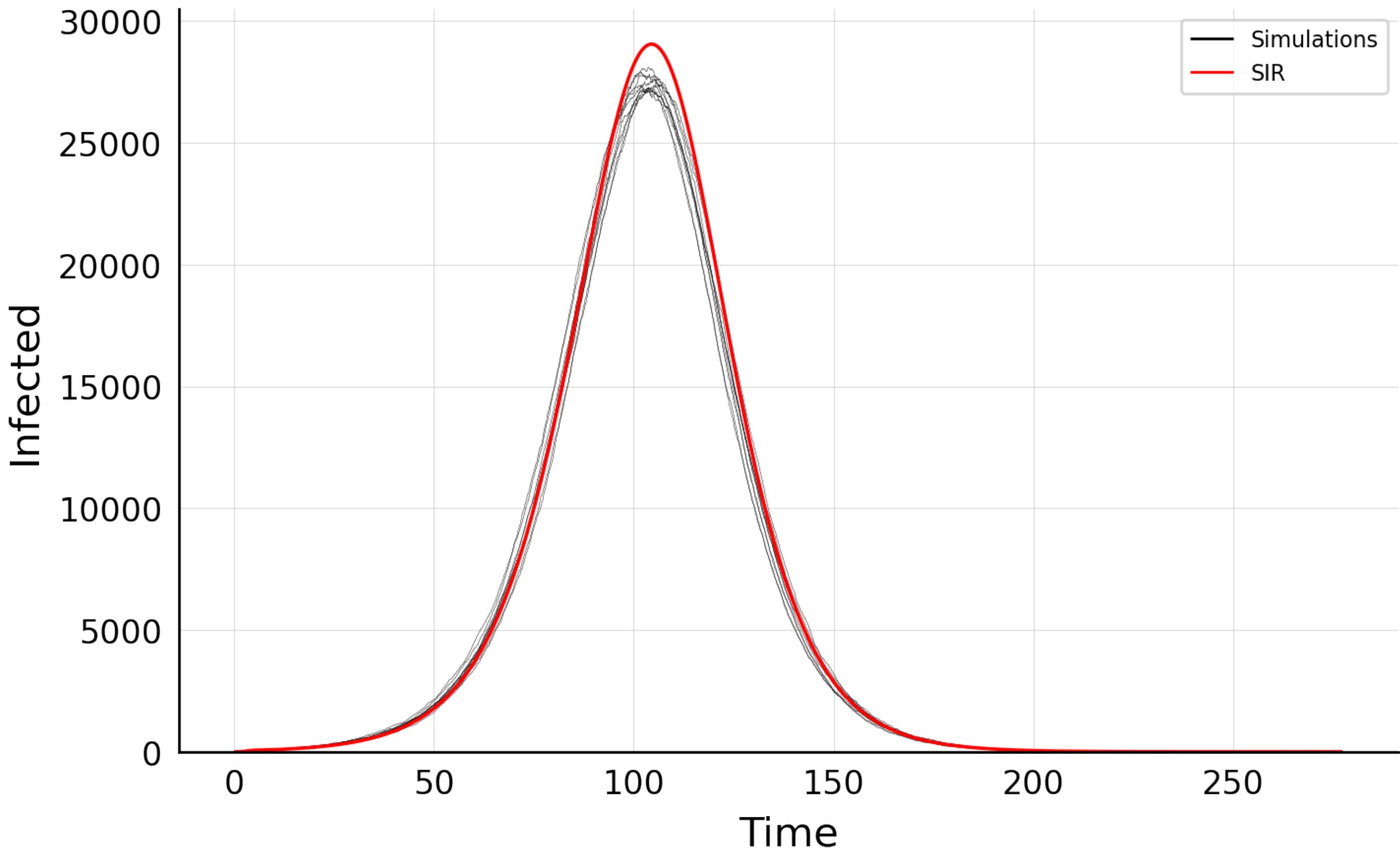
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 100.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.99$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



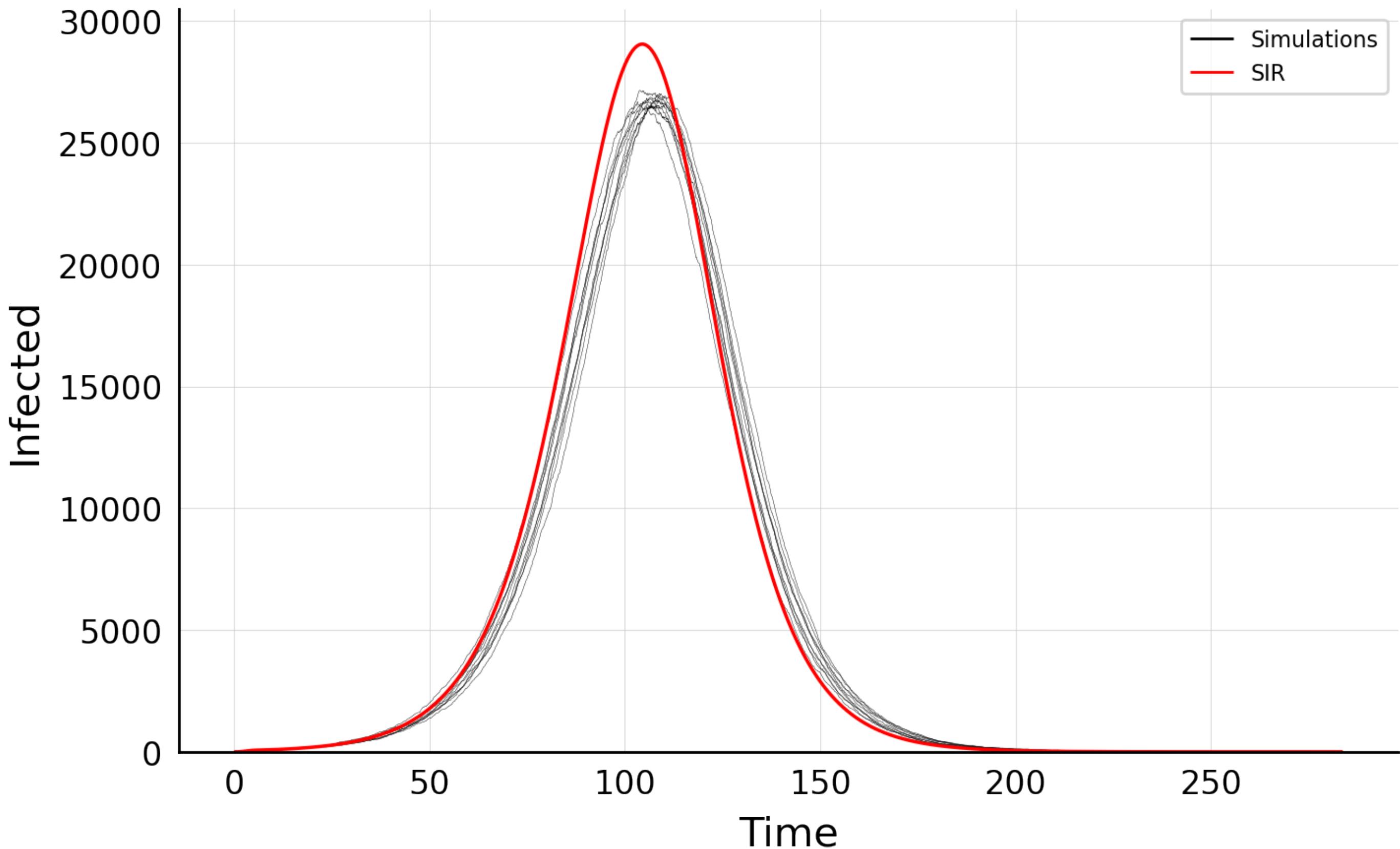
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 100.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.9$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 1$ , #10



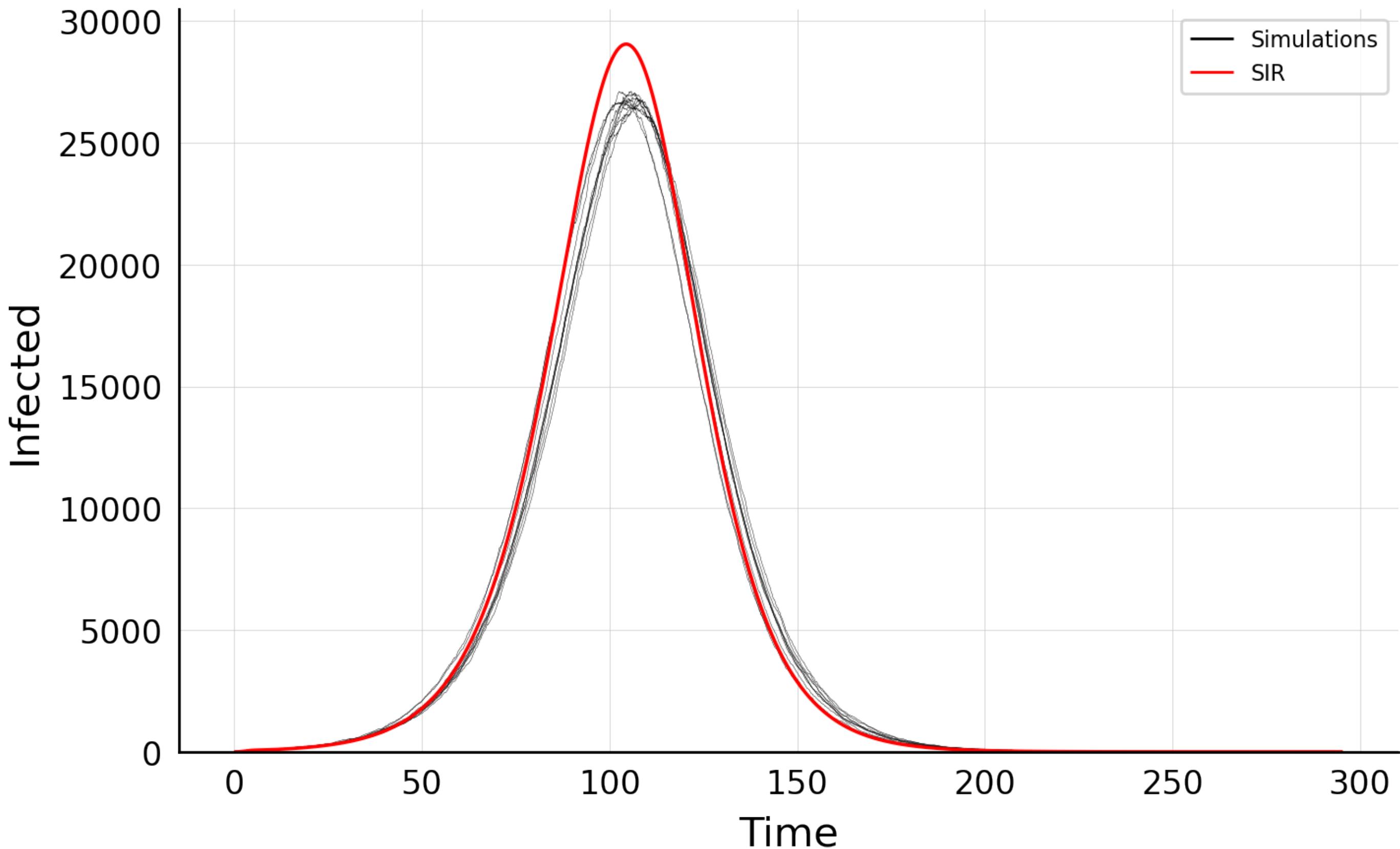
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 100.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.9$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



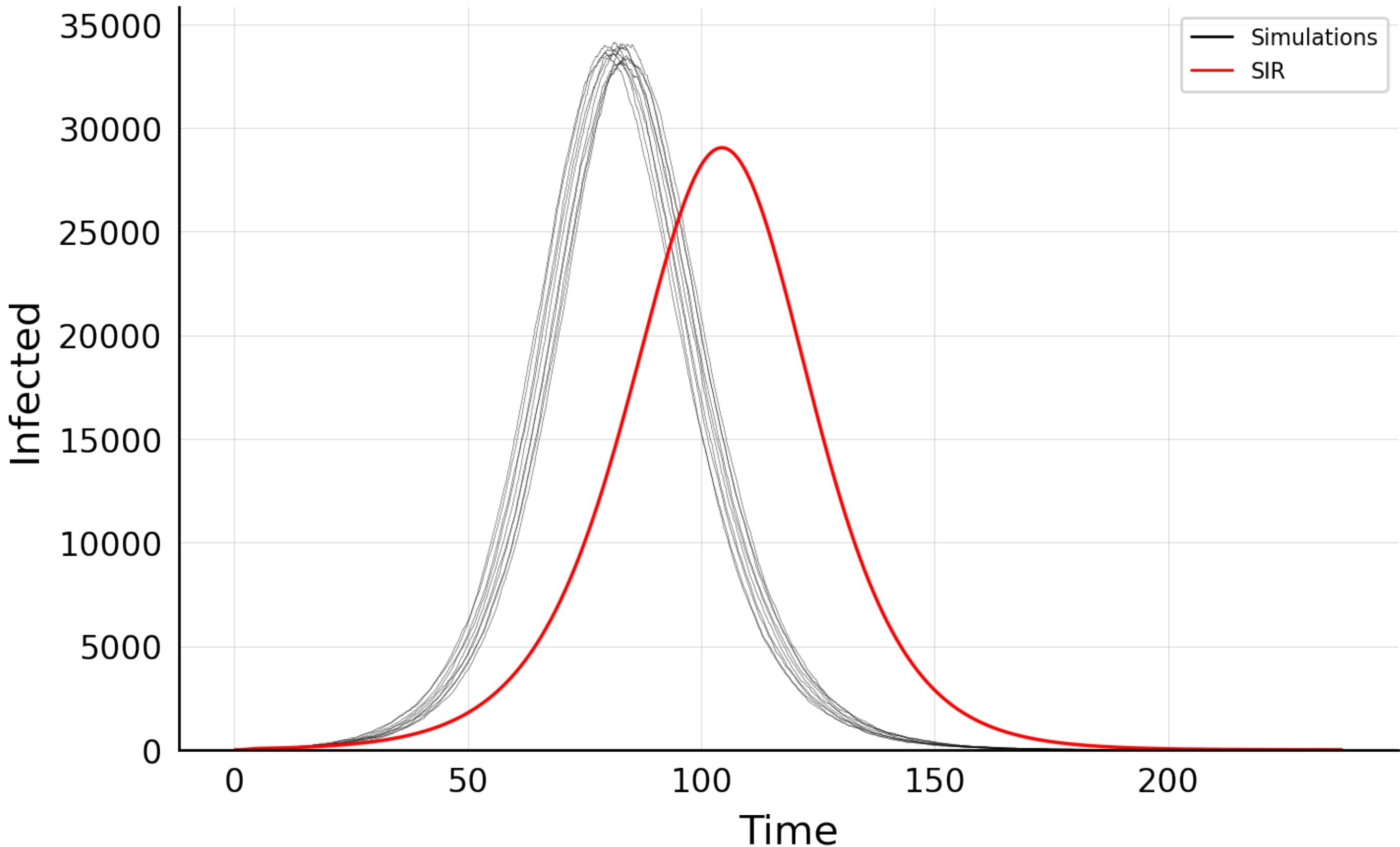
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 100.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 1.0$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 1$ , #10



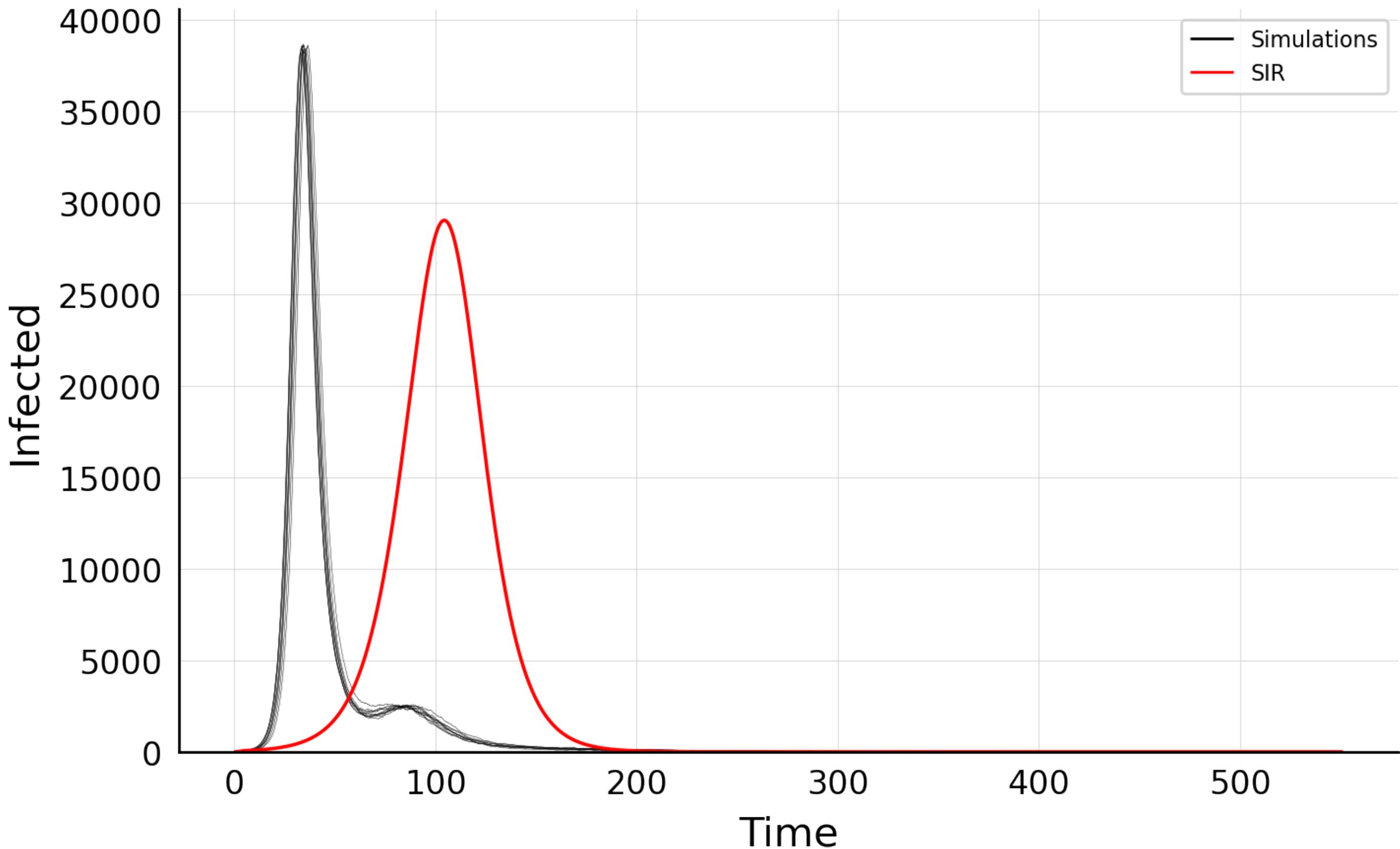
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 100.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 1.0$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



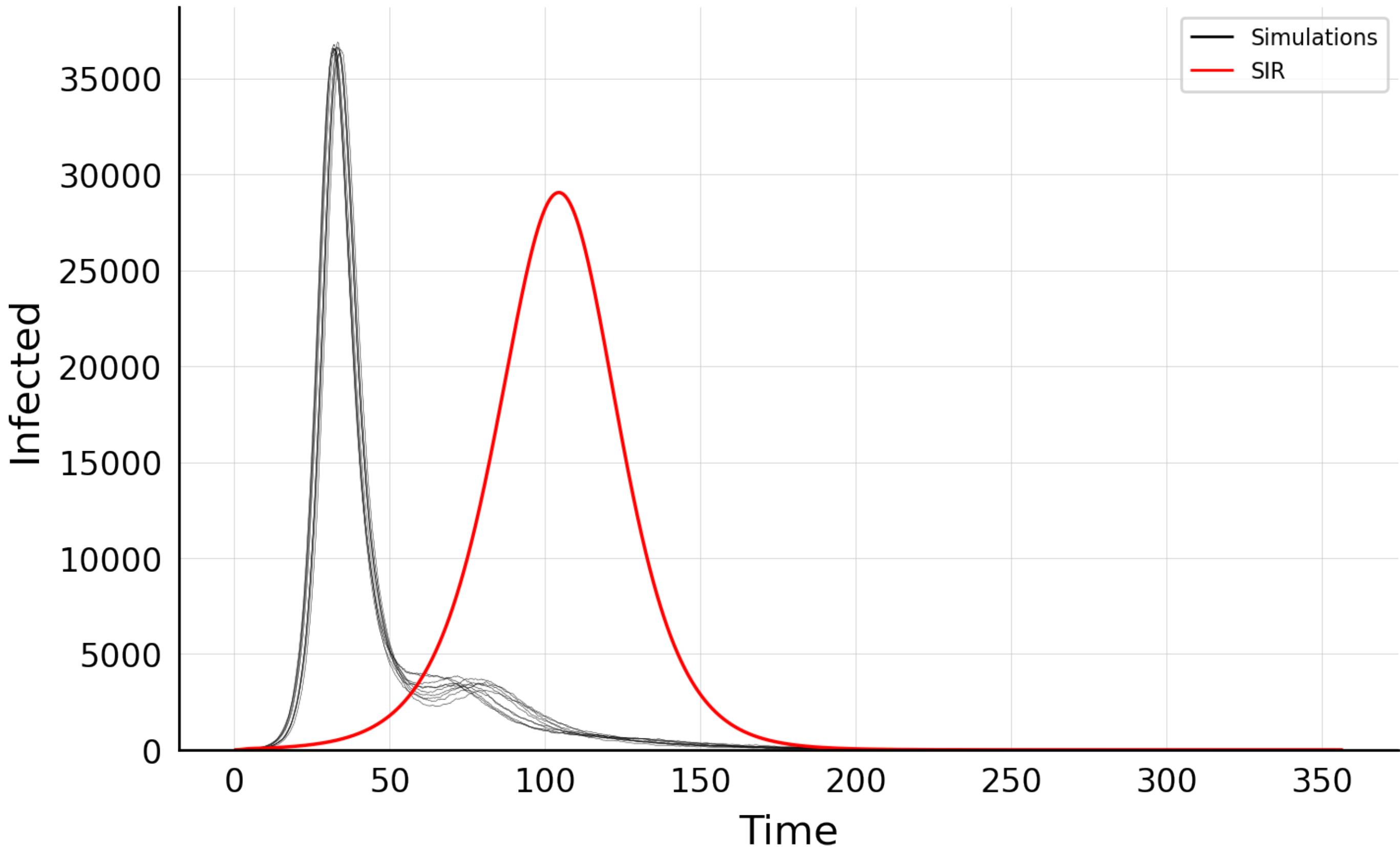
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 15.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



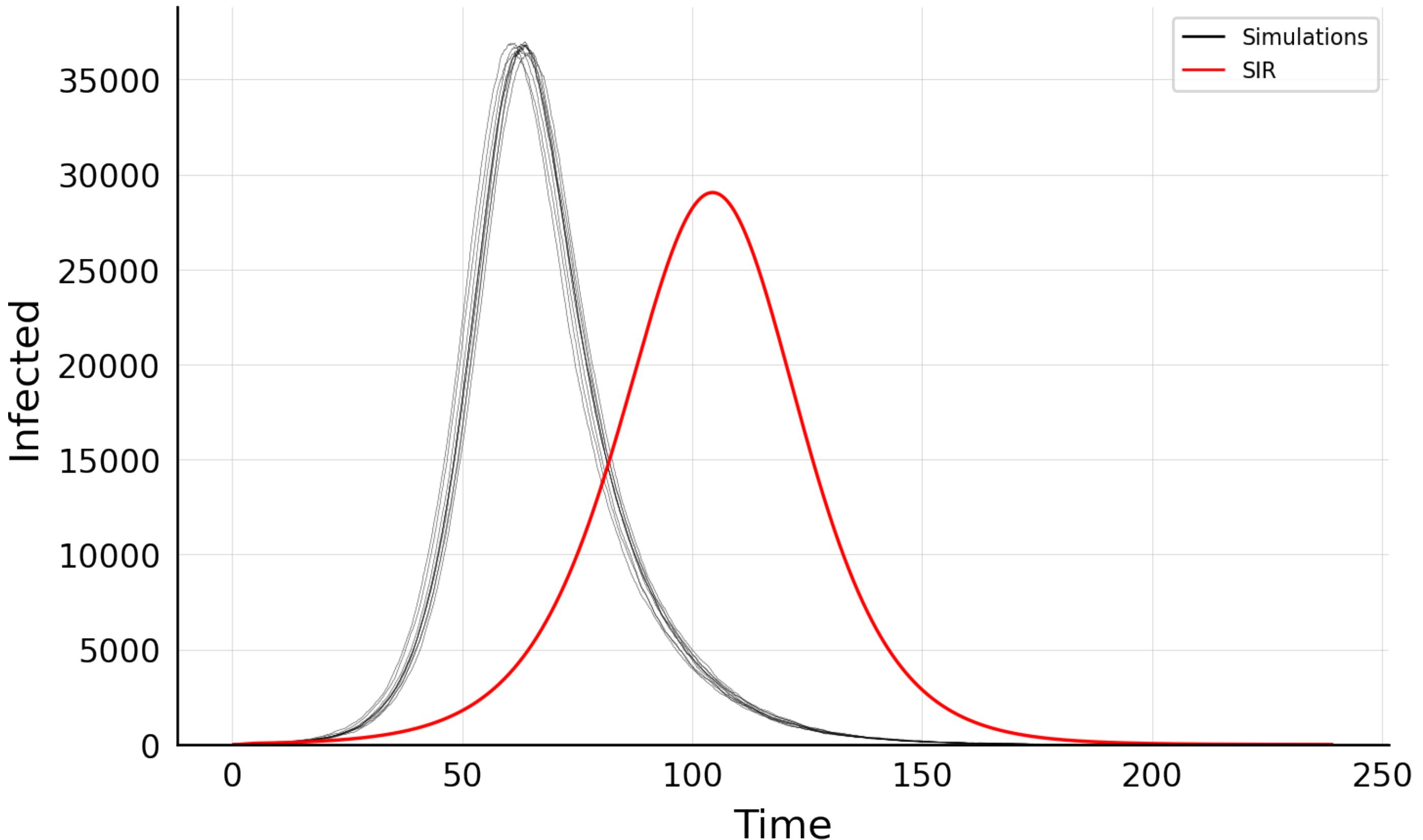
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 150.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ ,  $\#10$



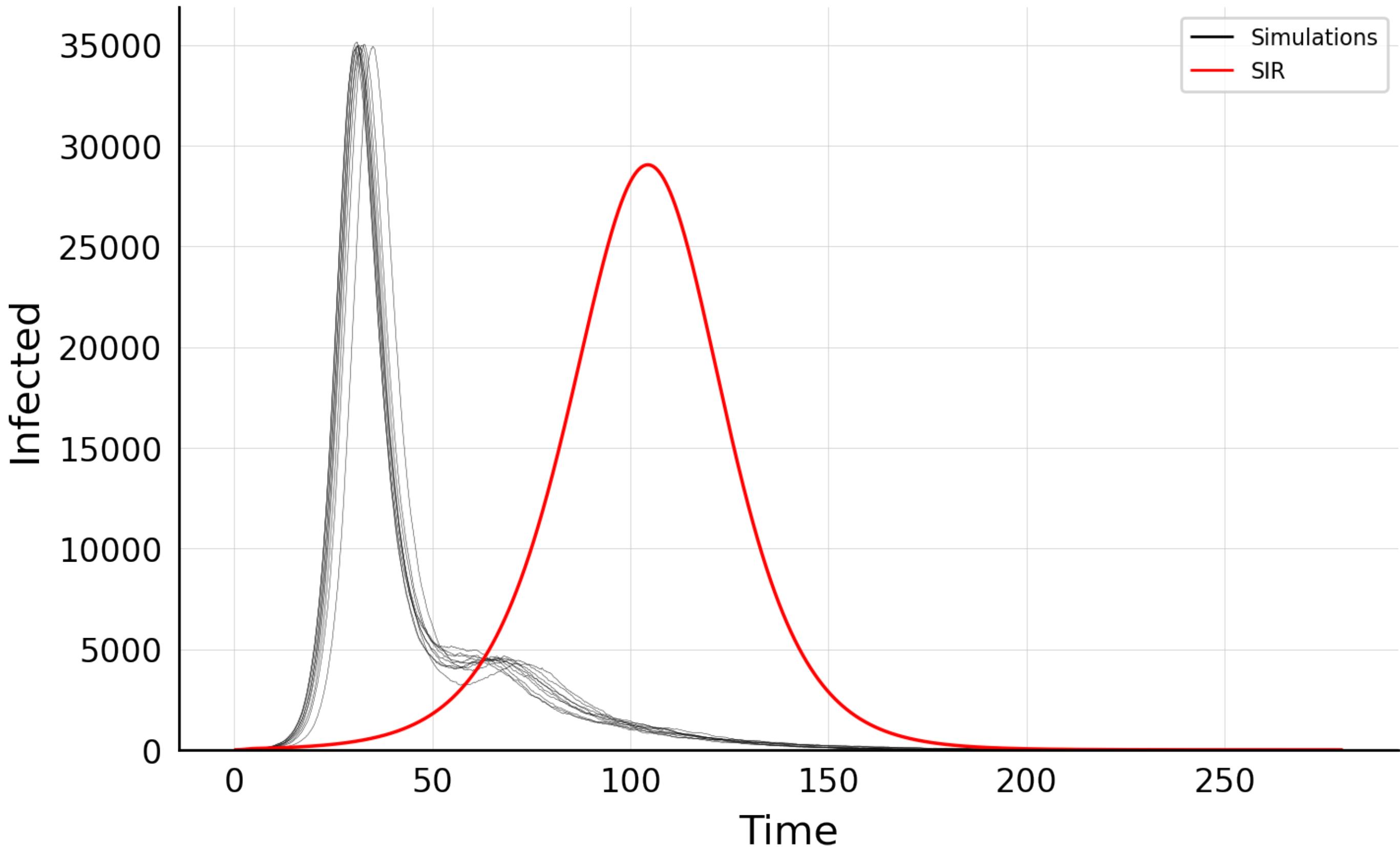
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 200.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



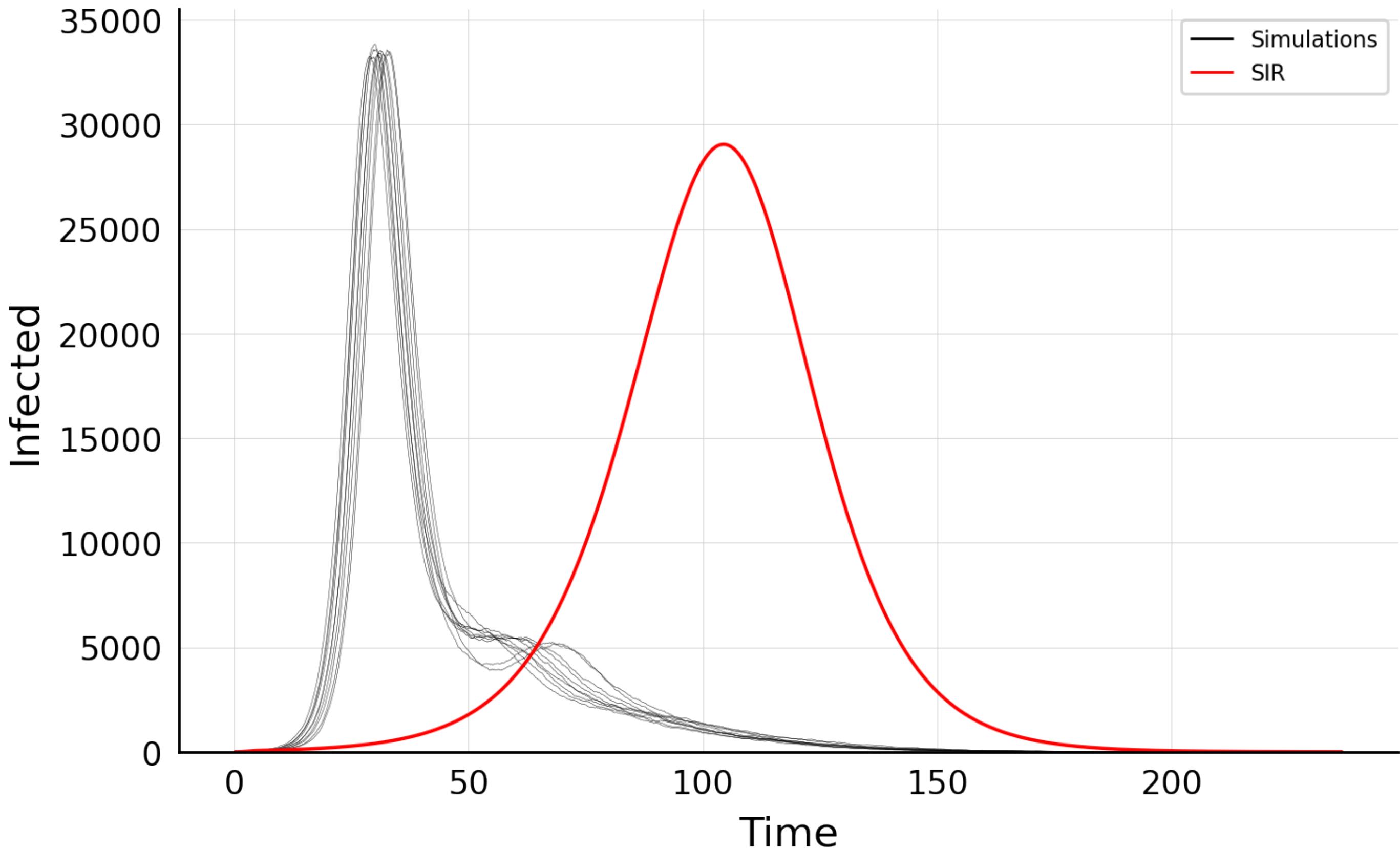
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 25.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



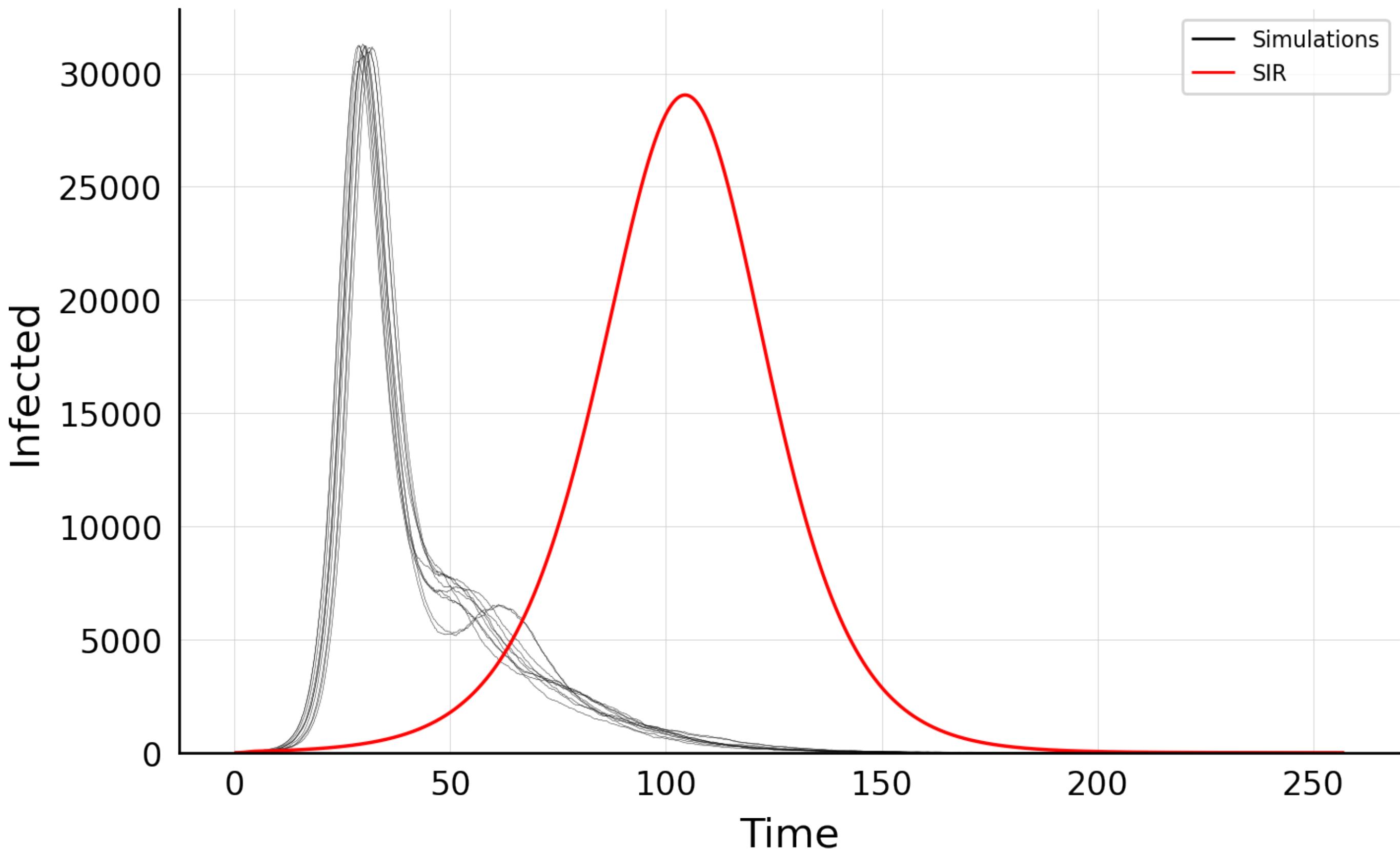
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 250.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



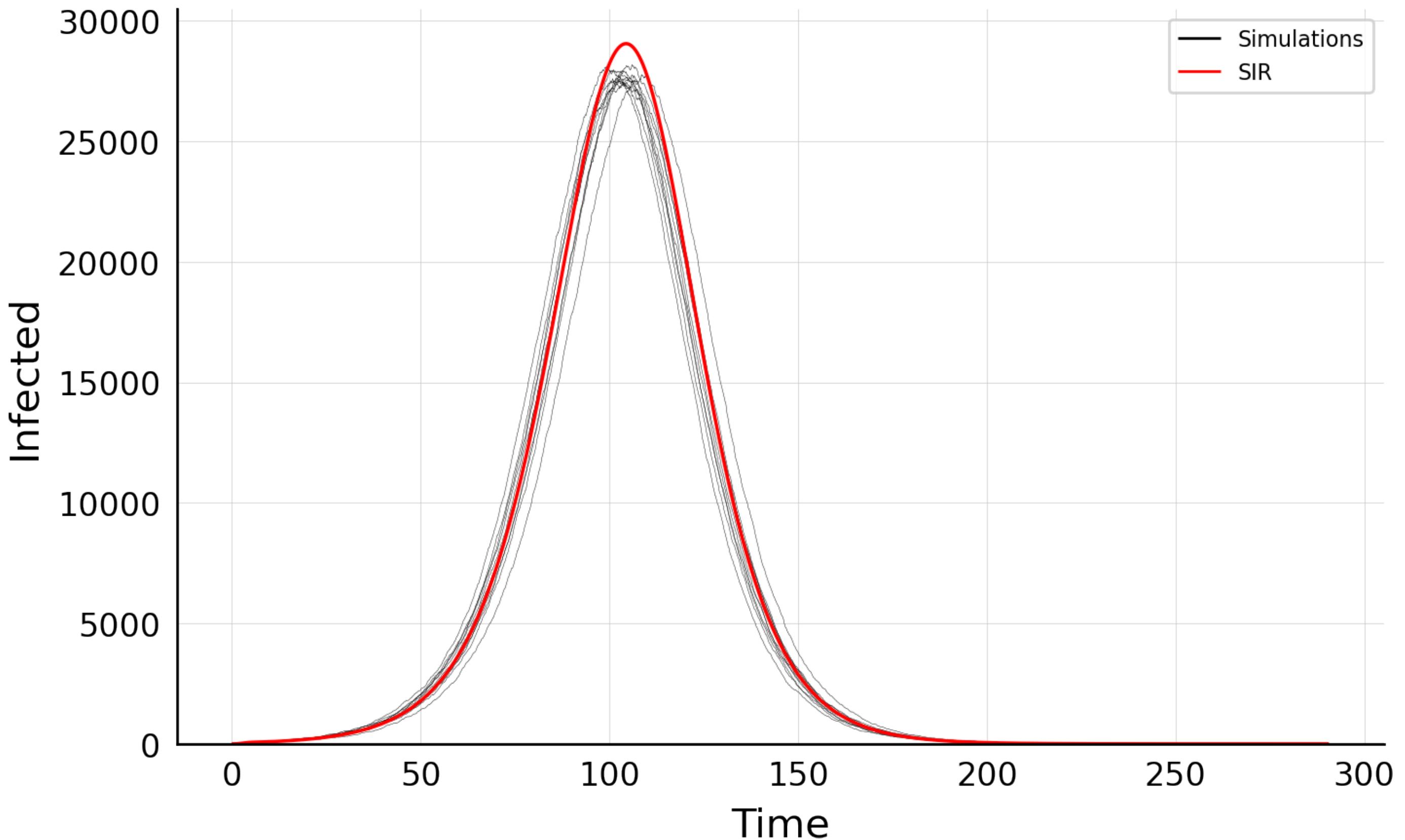
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 300.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



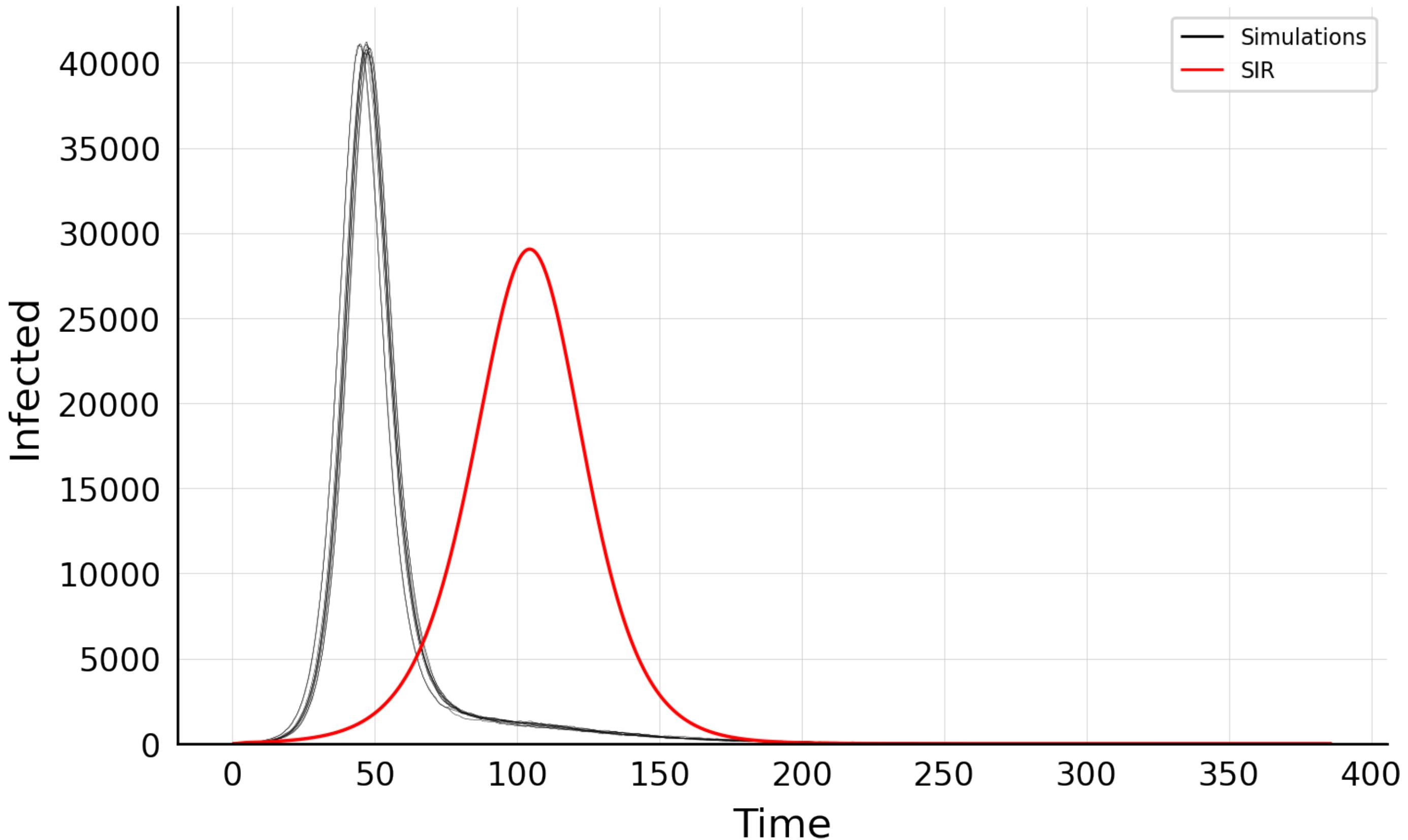
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 400.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



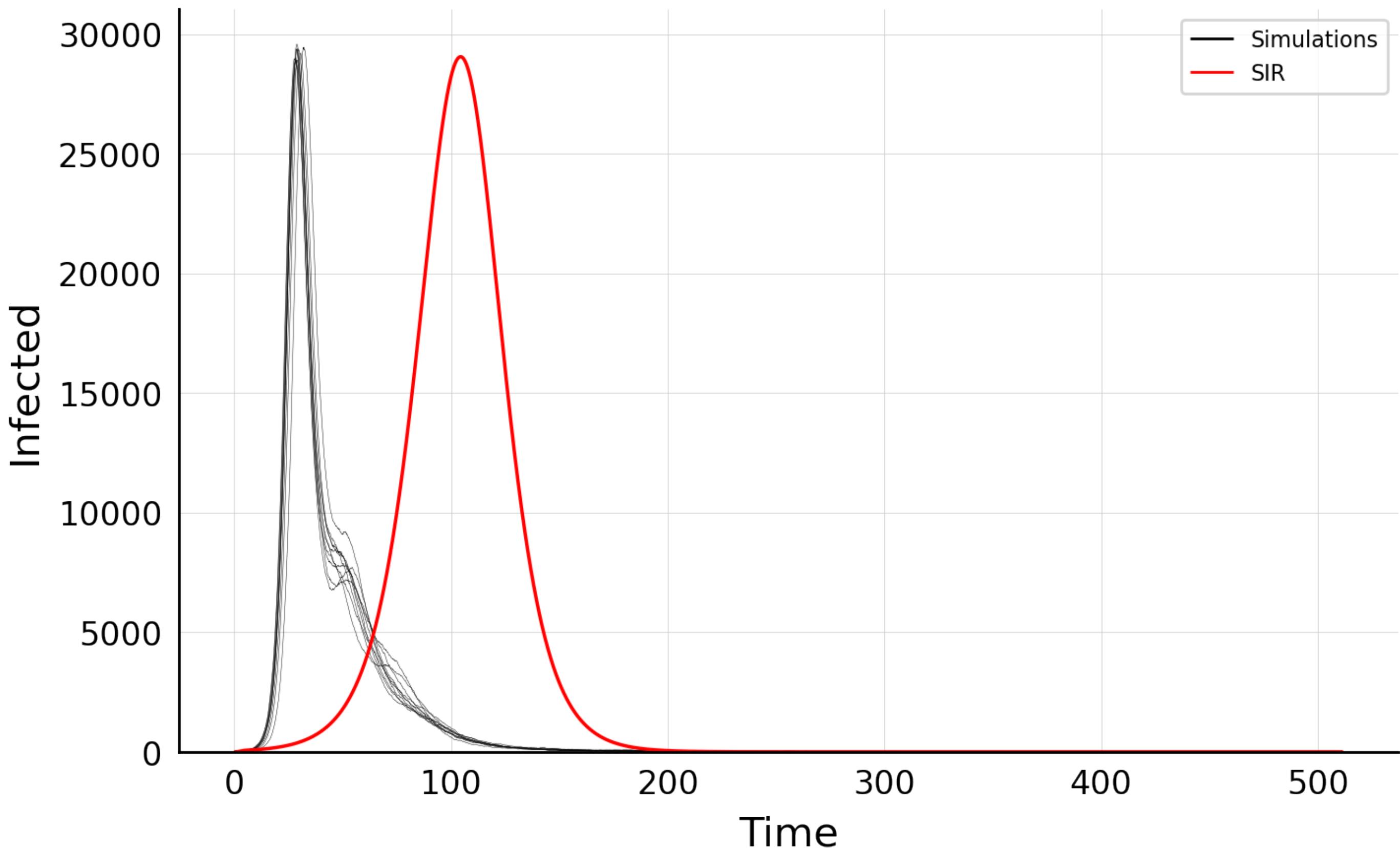
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 5.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ ,  $\#10$



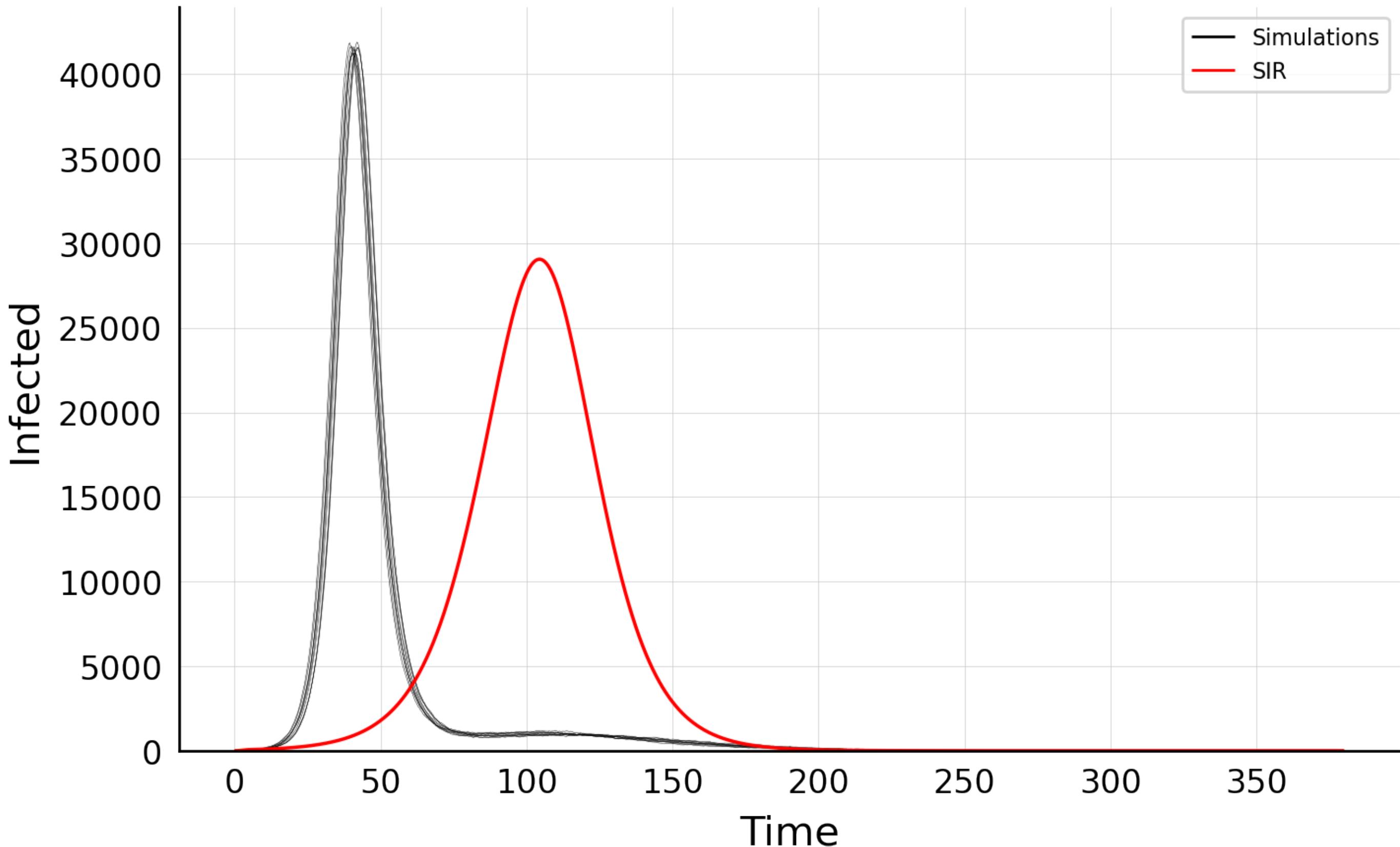
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 50.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ ,  $\#10$



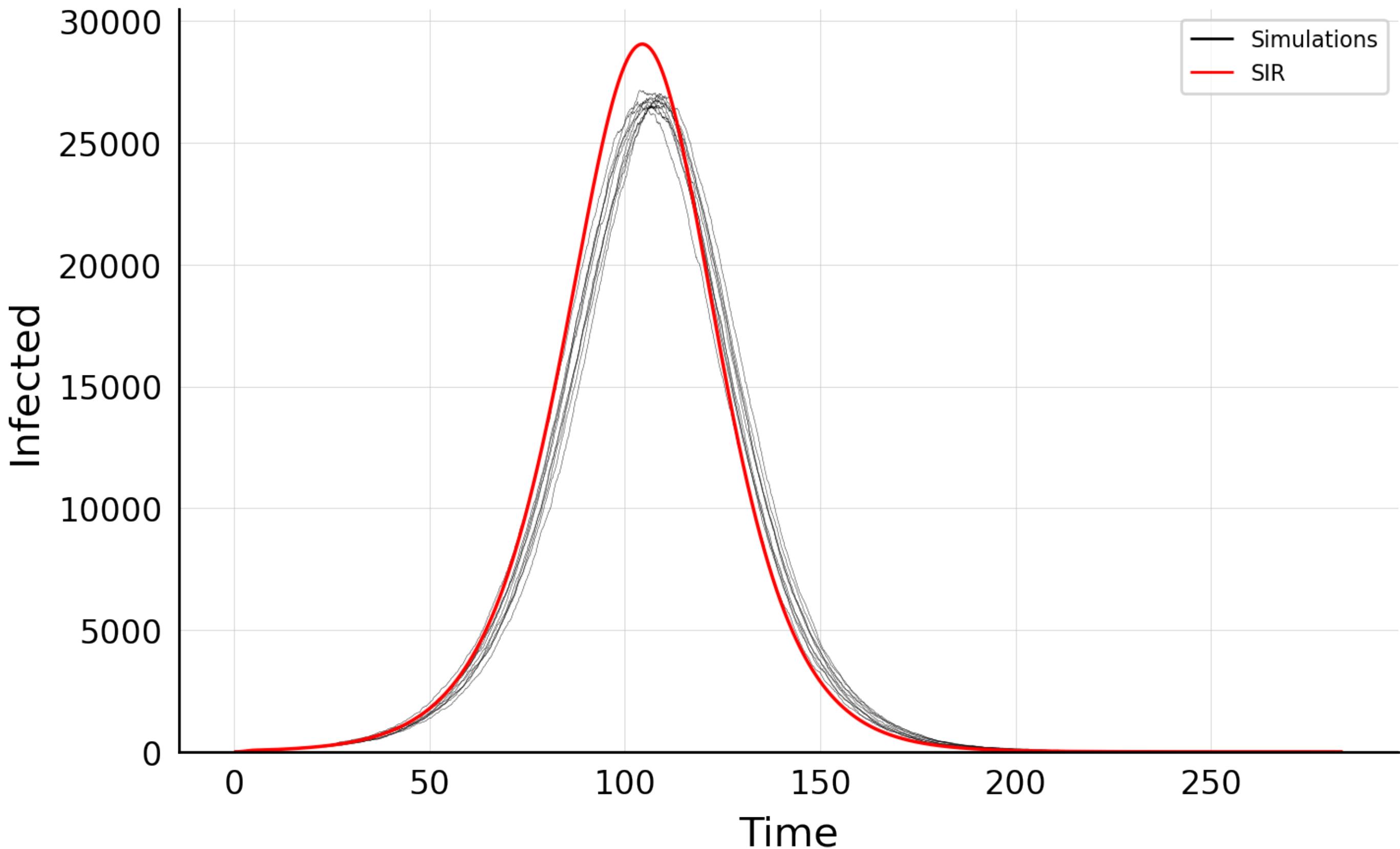
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 500.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



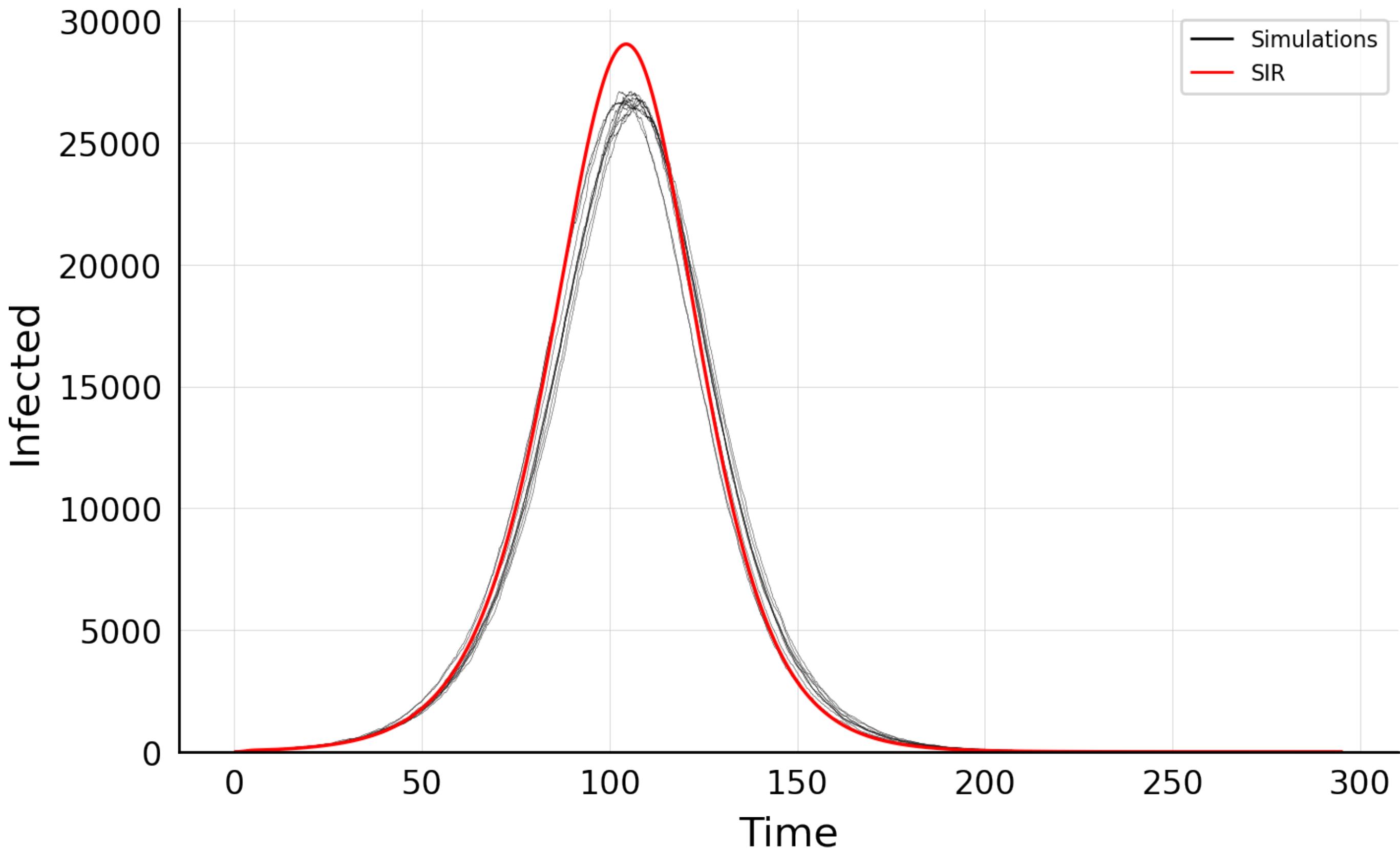
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 75.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



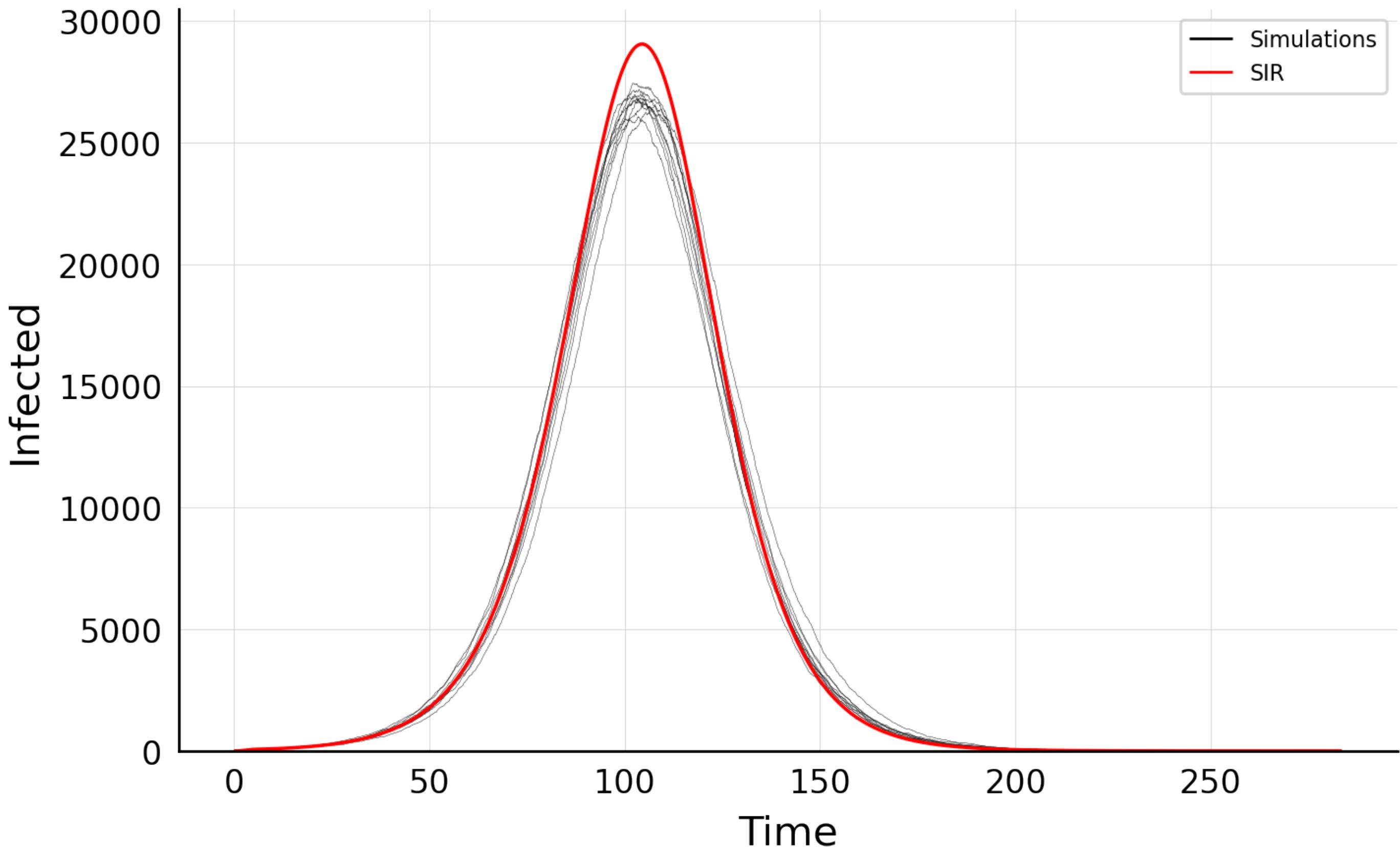
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.25$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 1$ ,  $\#10$



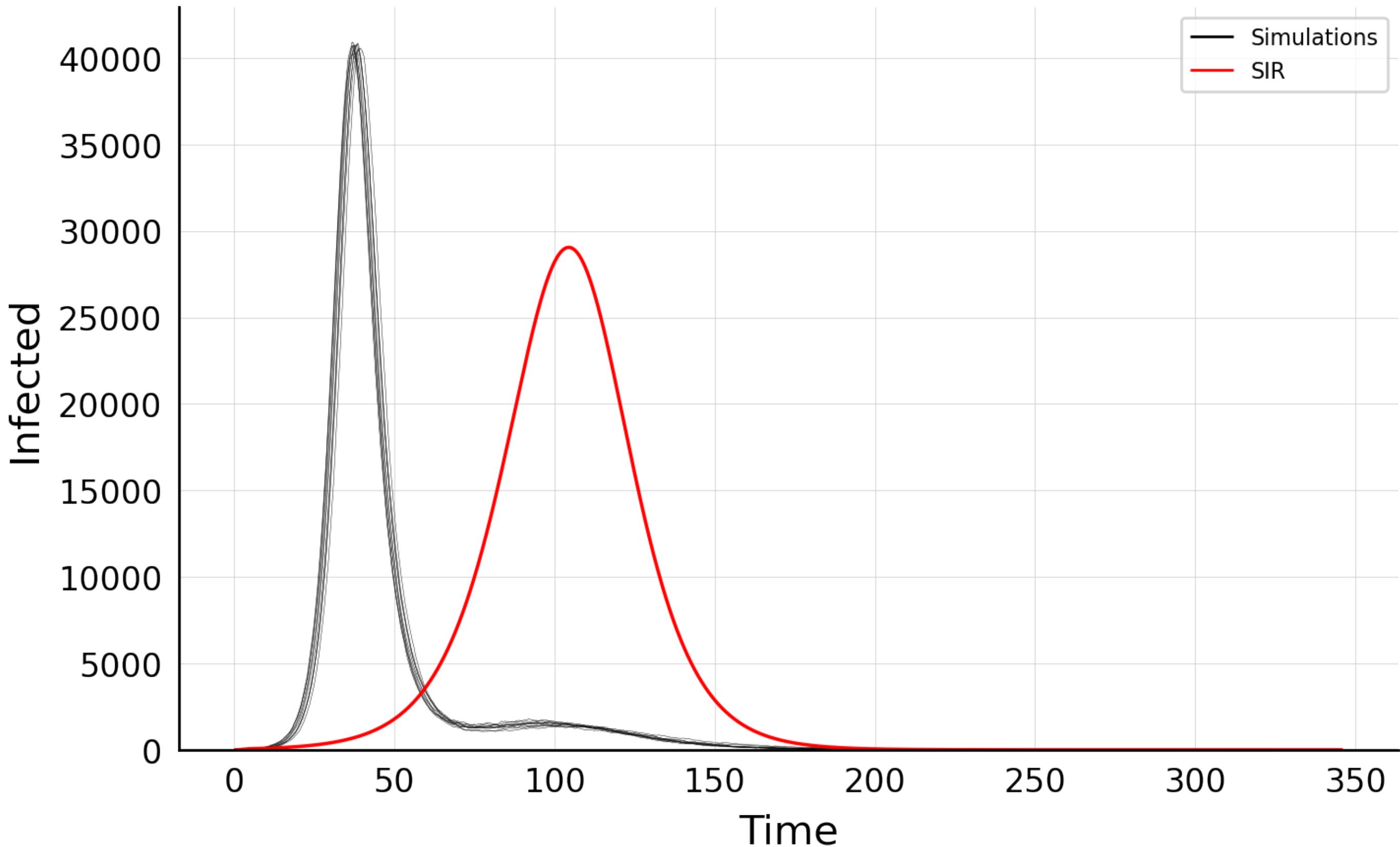
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.25$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



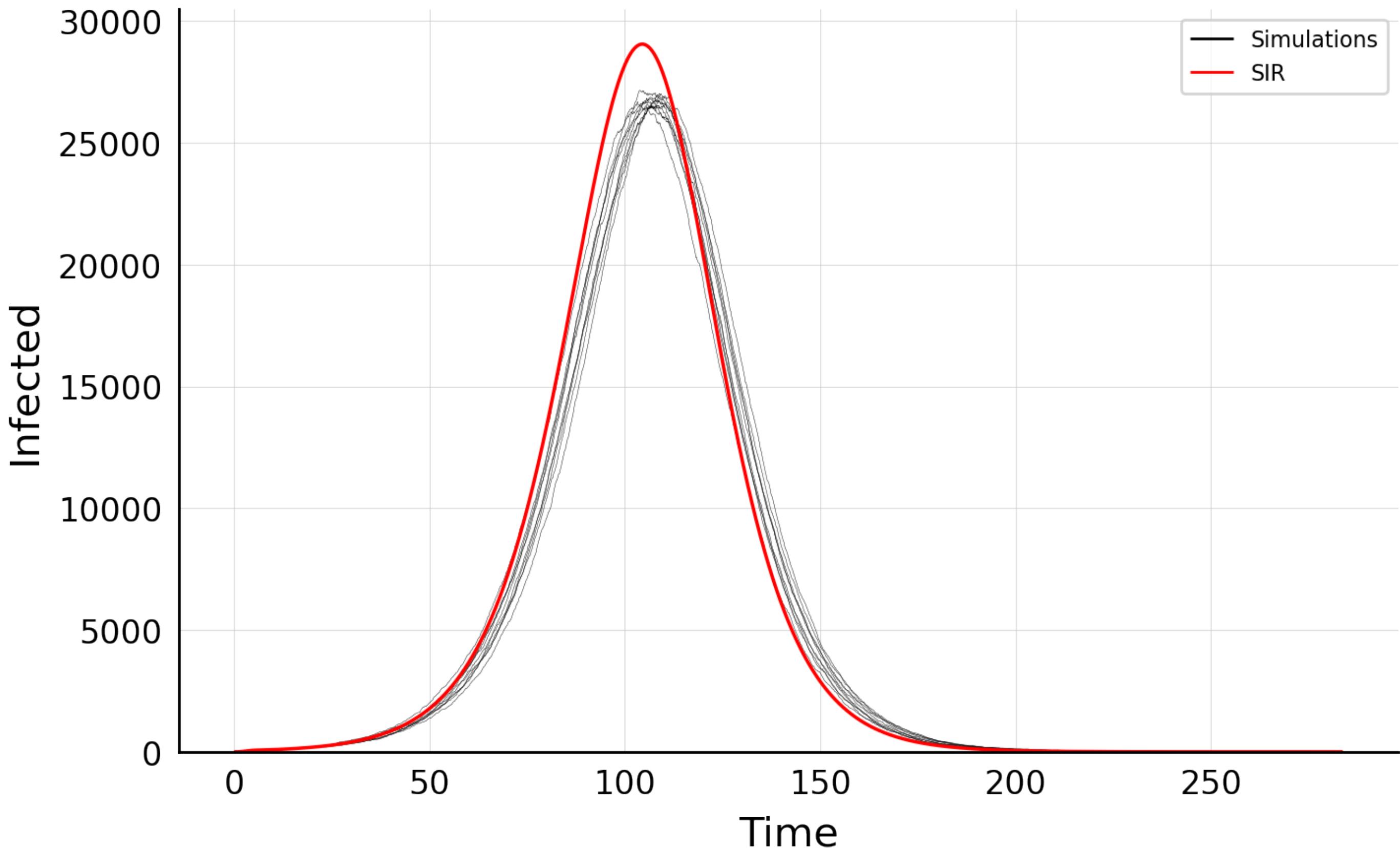
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.25$ ,  $\rho = 100.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 1$ ,  $\#10$



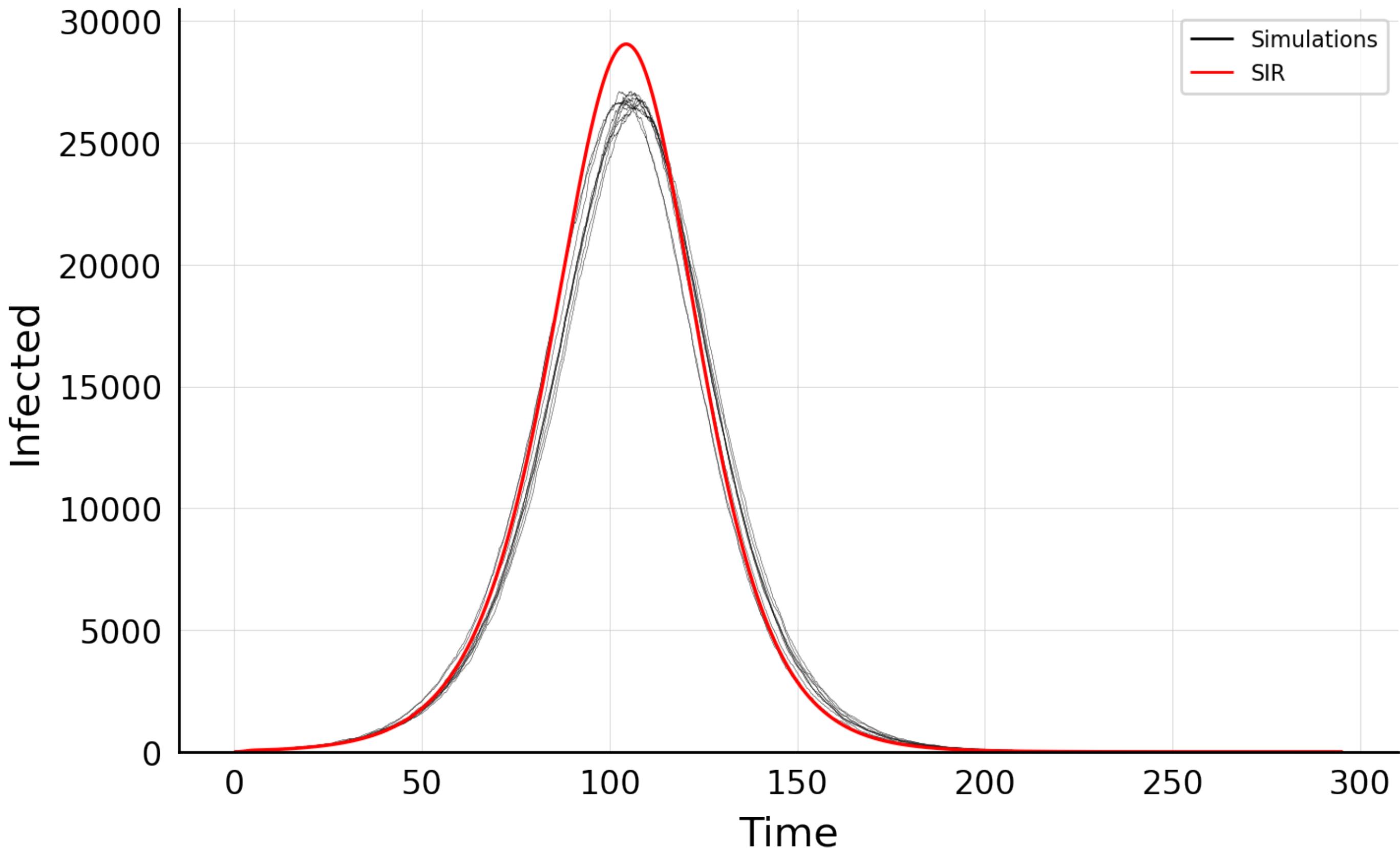
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.25$ ,  $\rho = 100.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



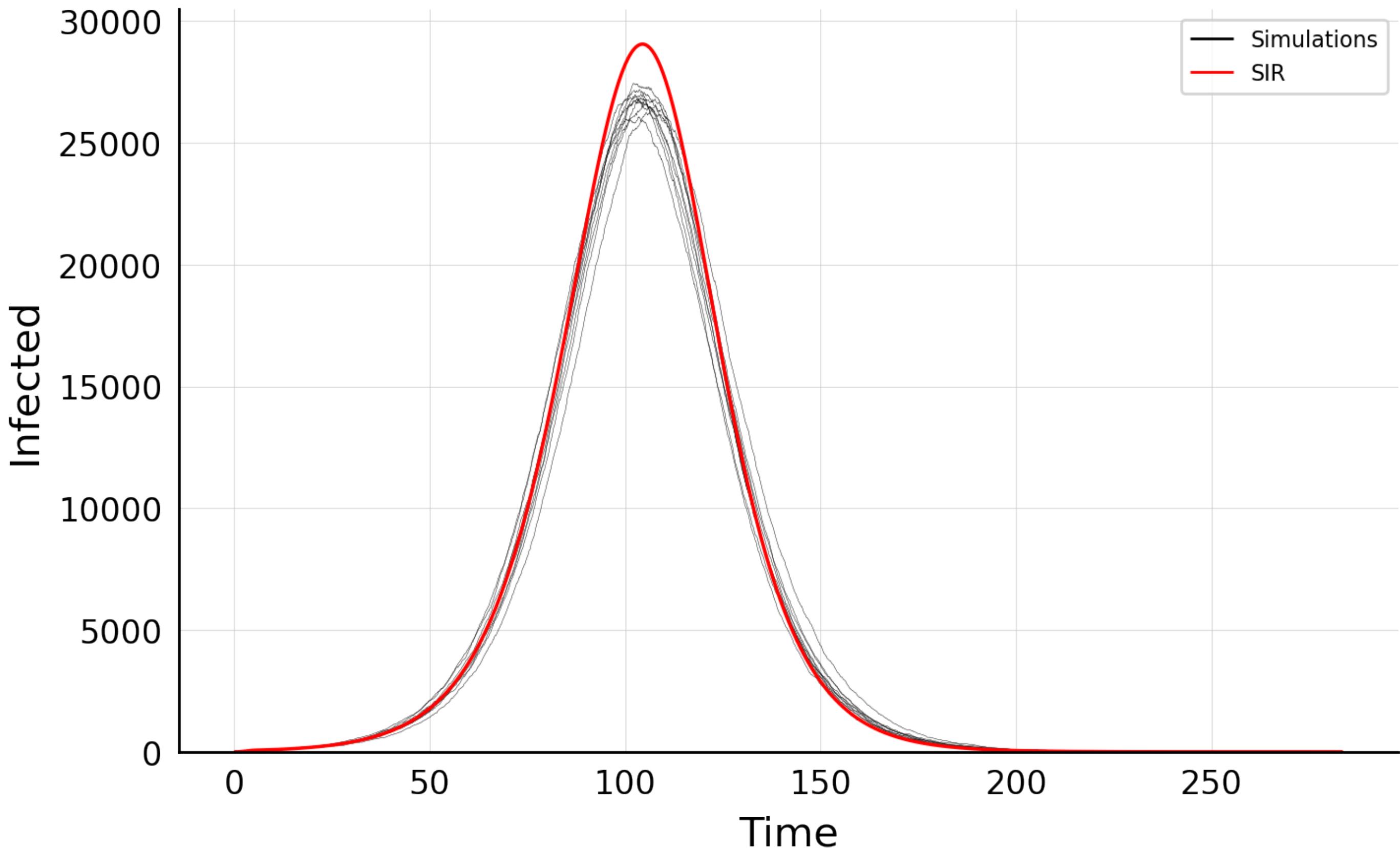
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.5$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 1$ ,  $\#10$



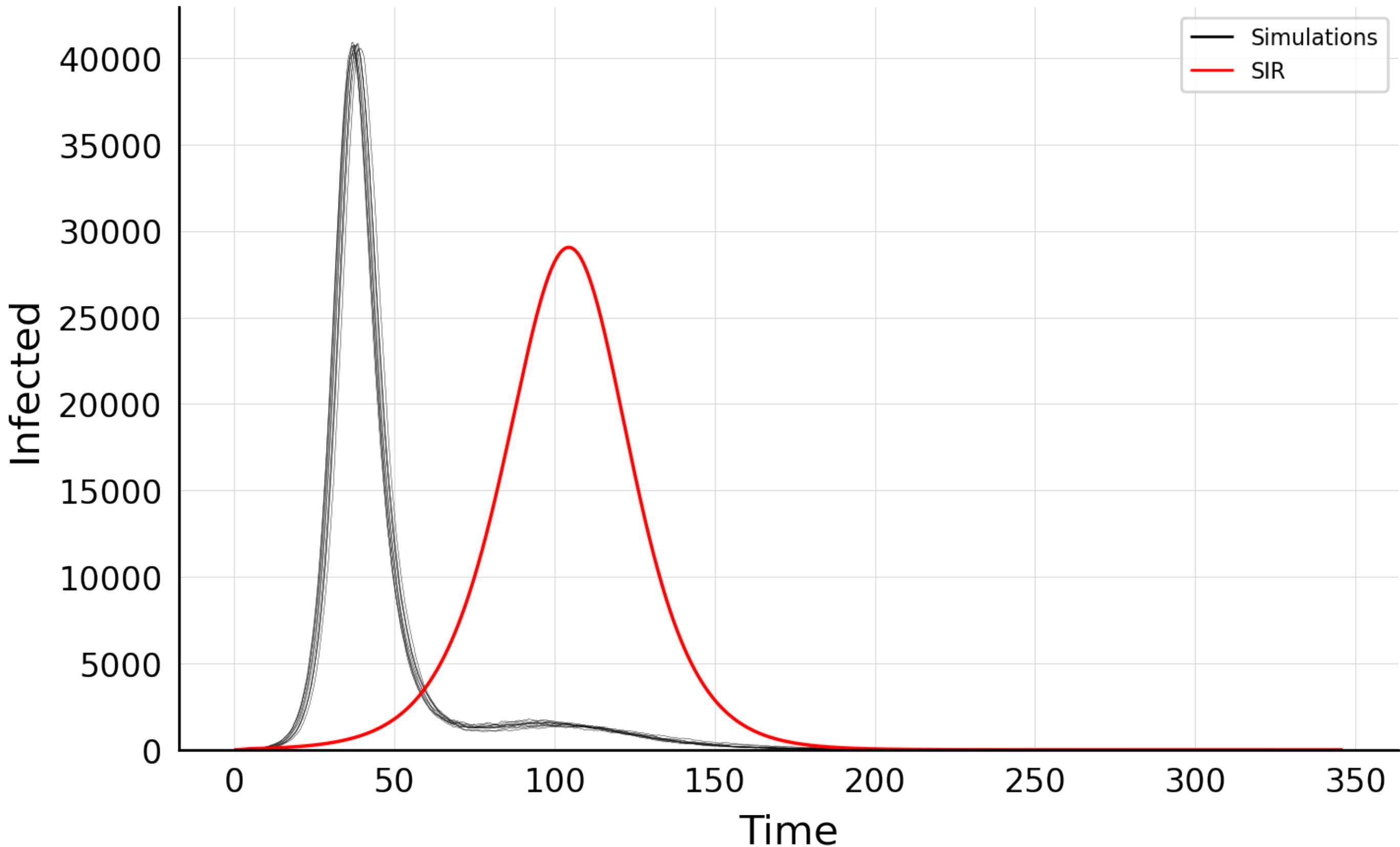
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.5$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ ,  $\#10$



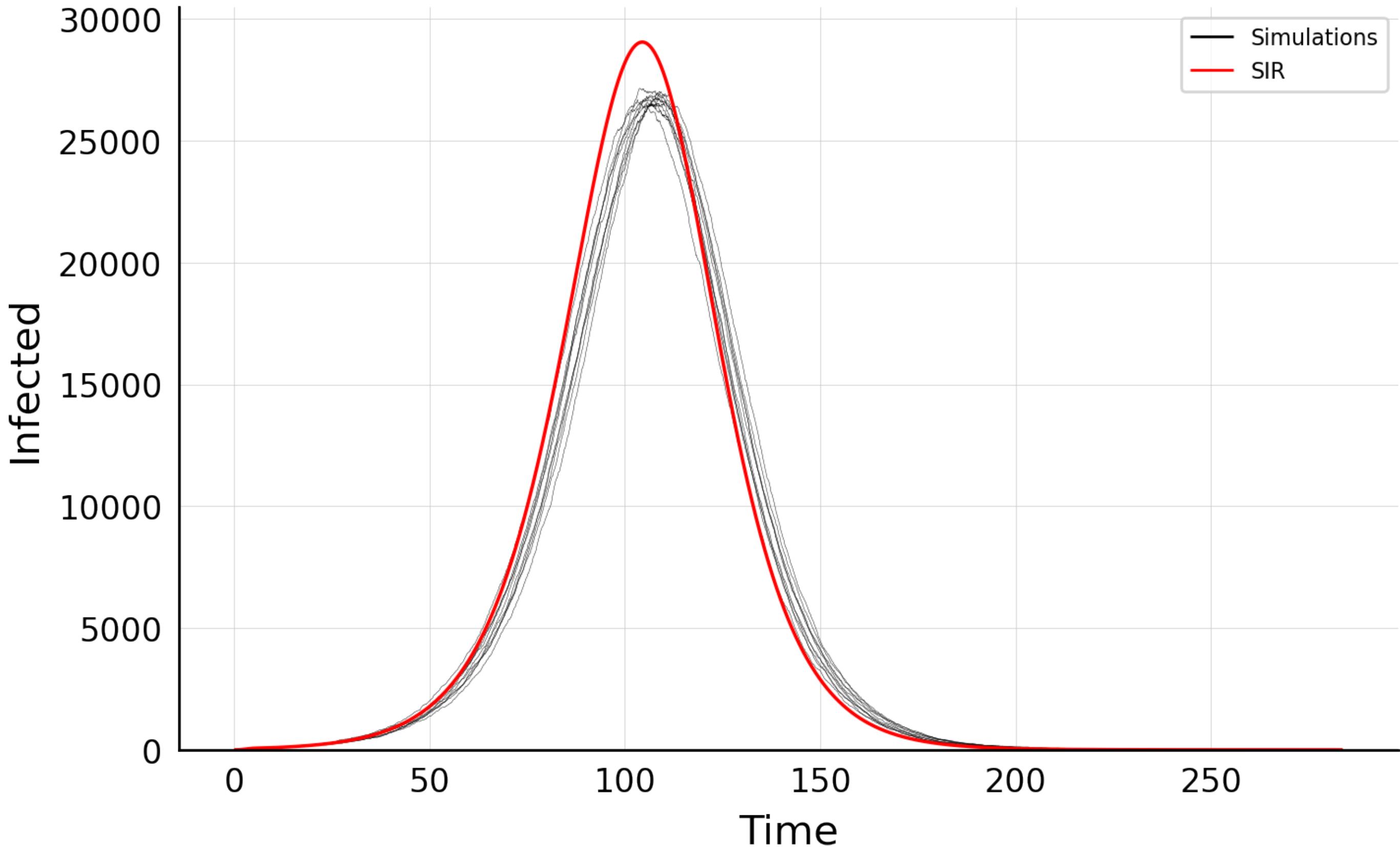
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 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 1$ ,  $\#10$



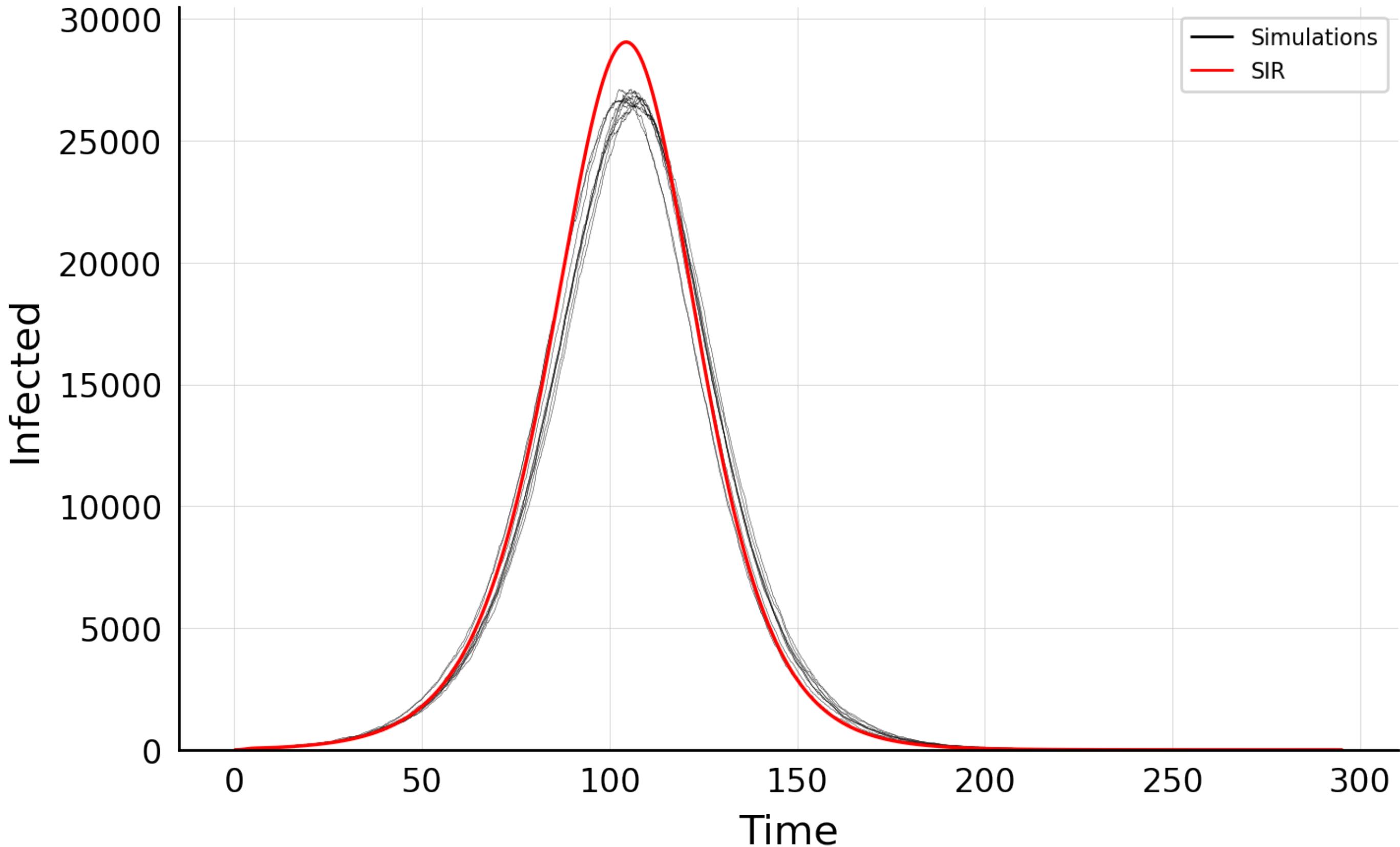
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 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



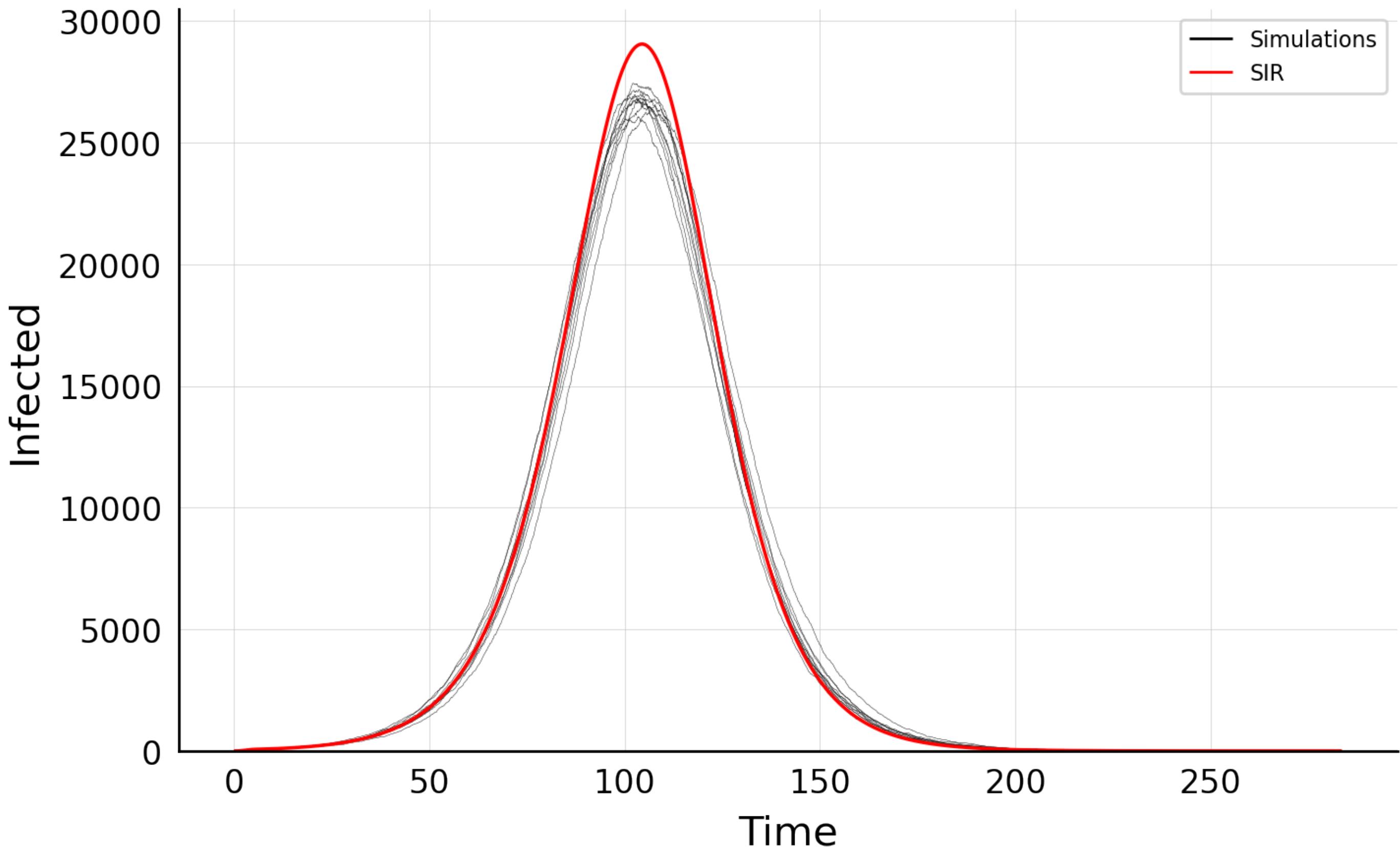
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.75$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 1$ ,  $\#10$



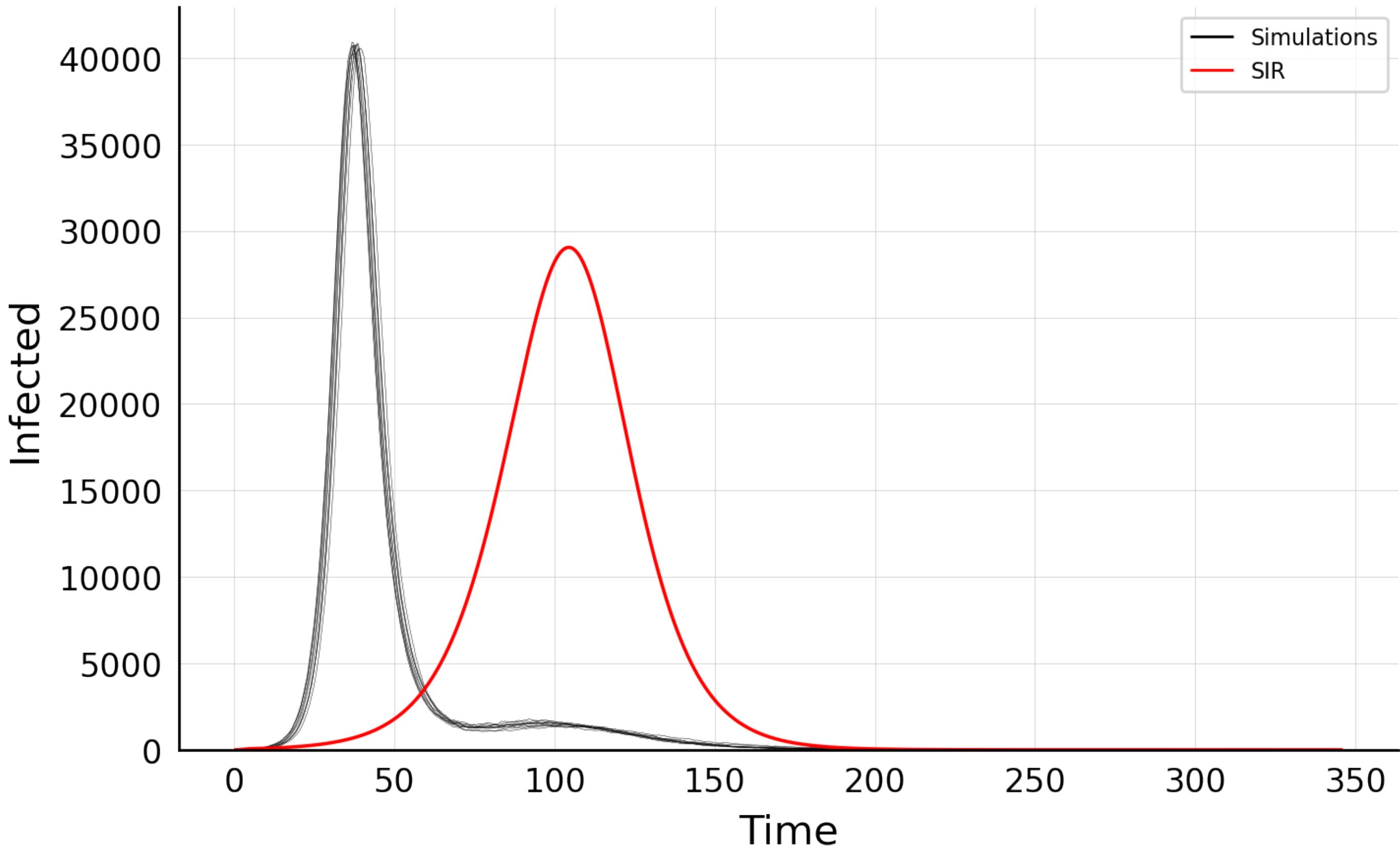
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 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



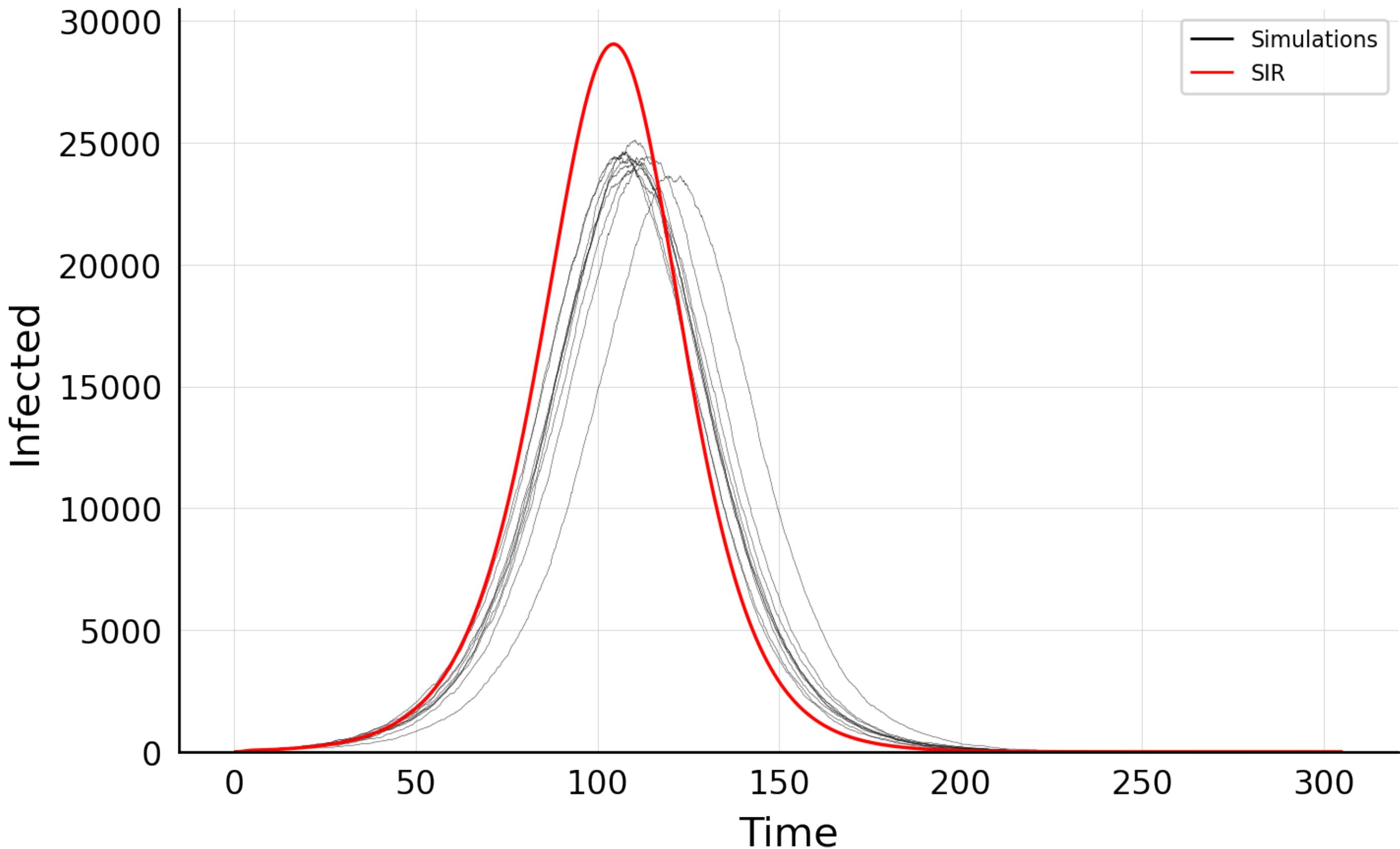
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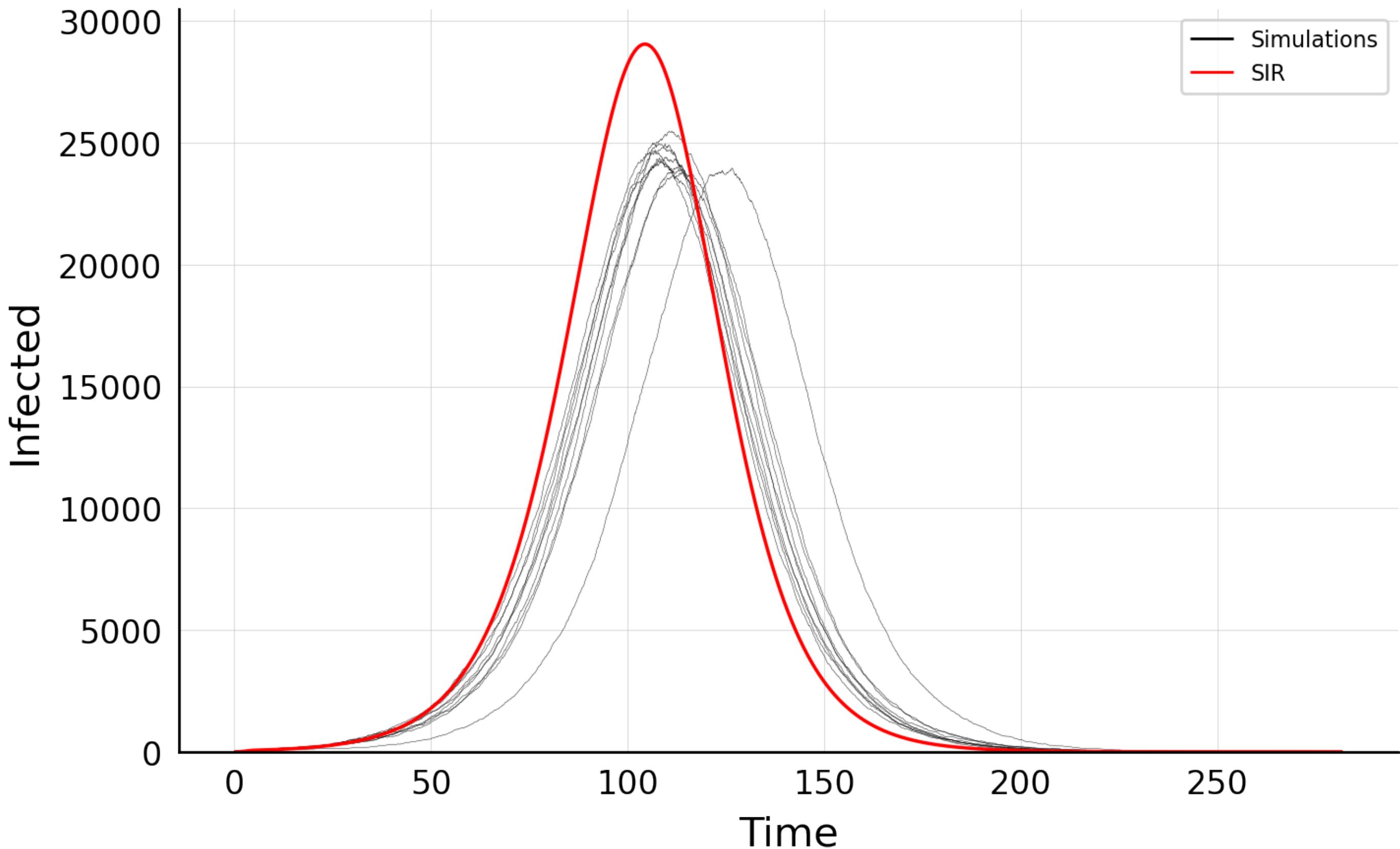
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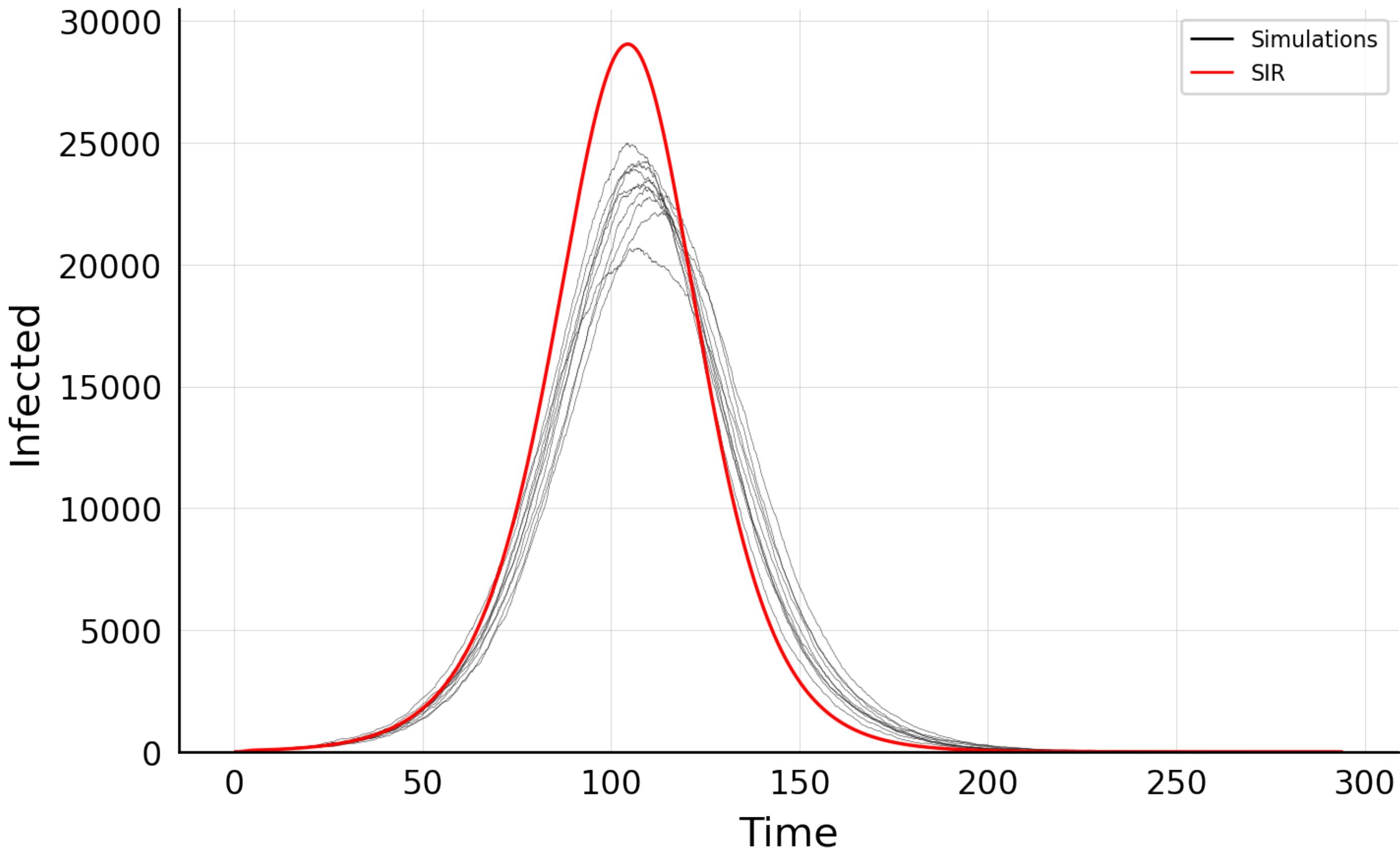
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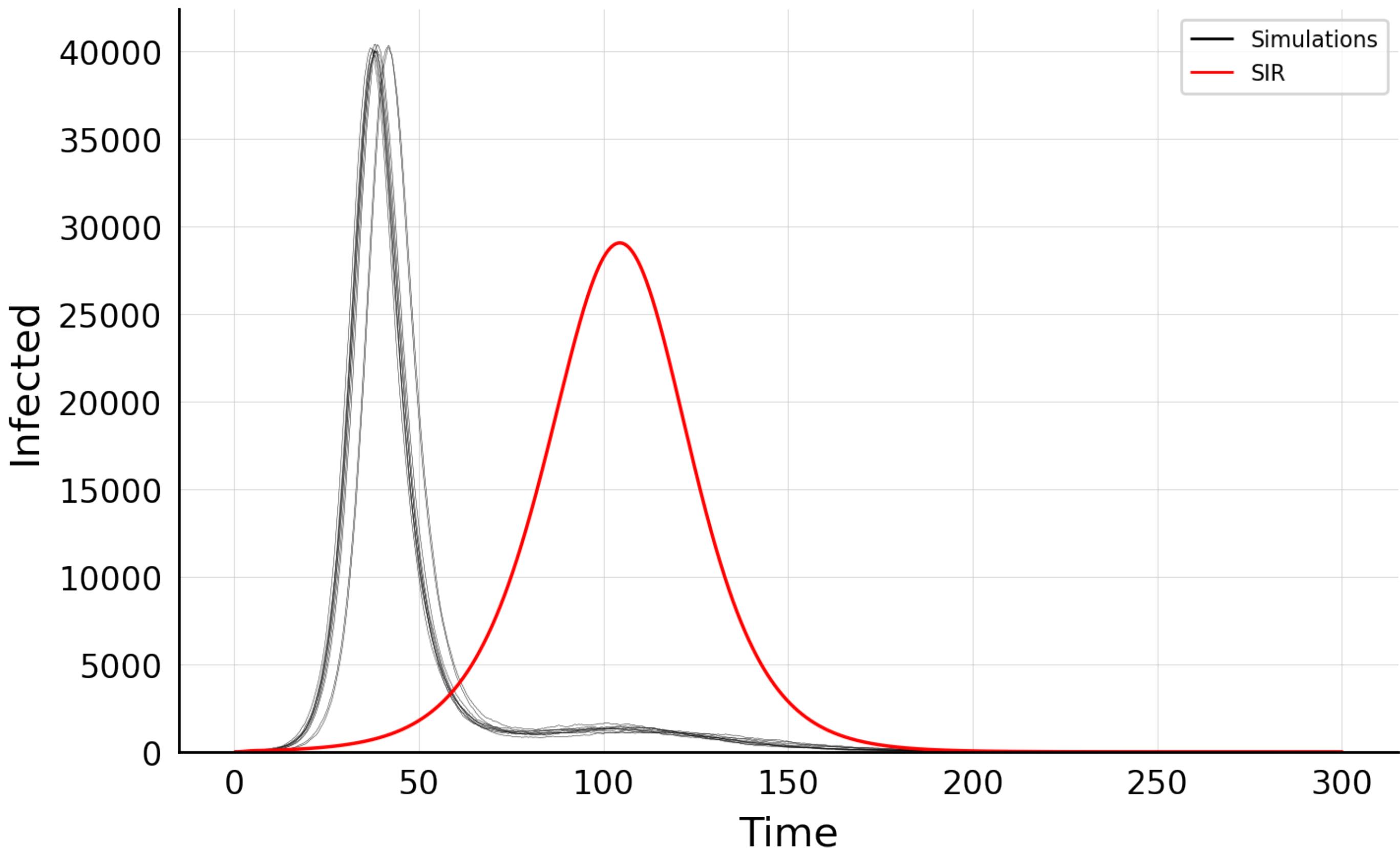
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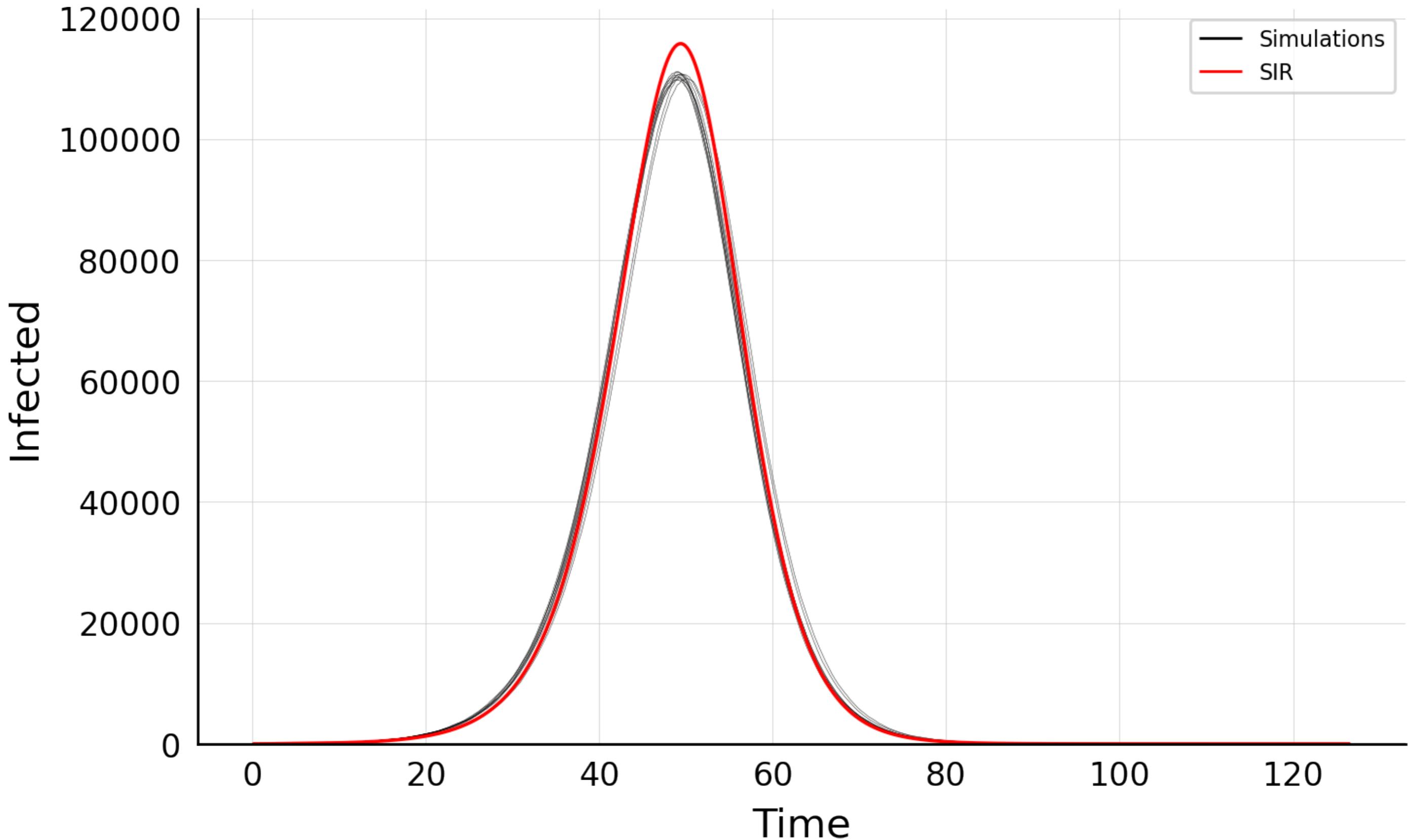
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 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 1$ ,  $\#10$



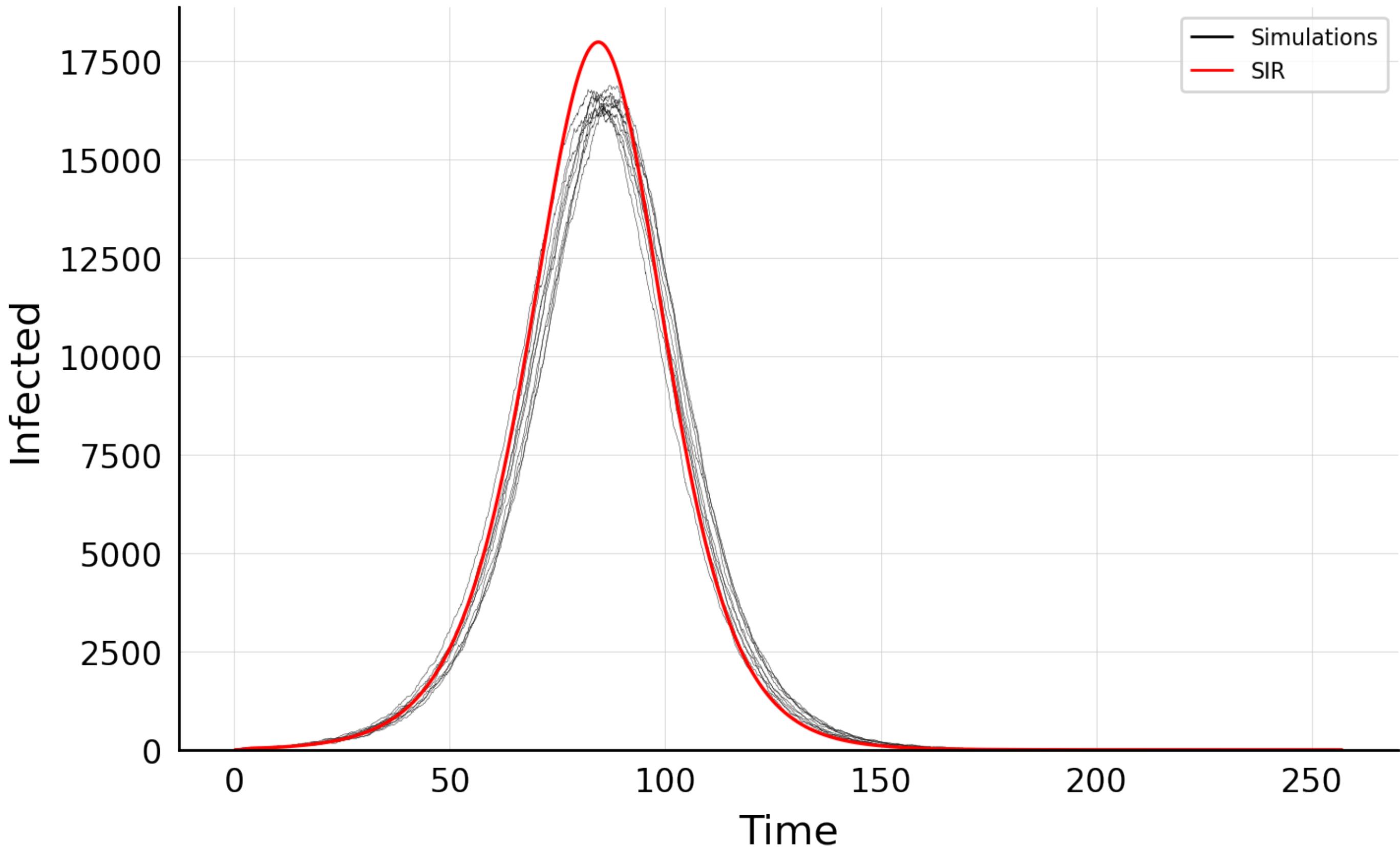
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 1.0$ ,  $\rho = 100.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



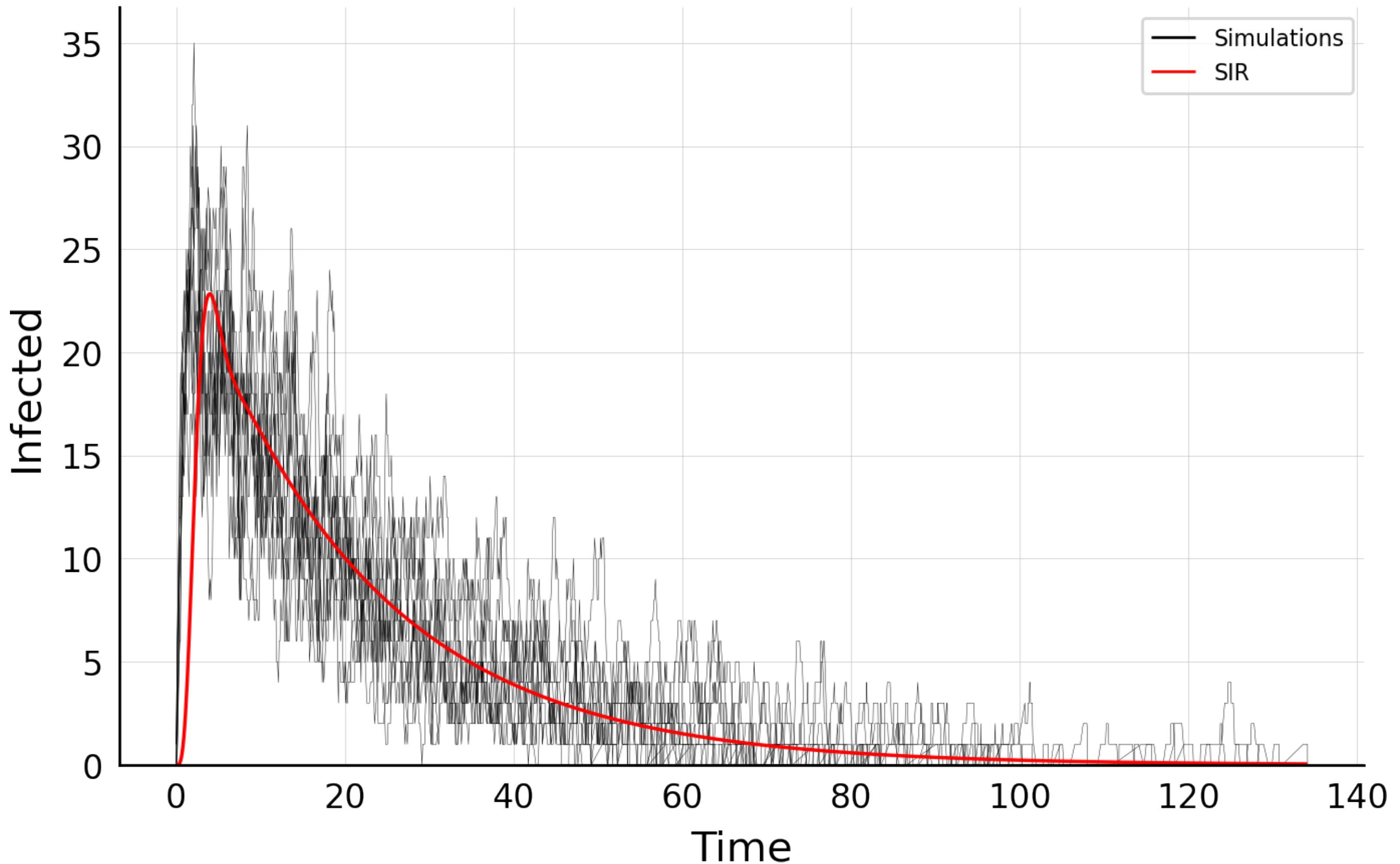
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.02$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
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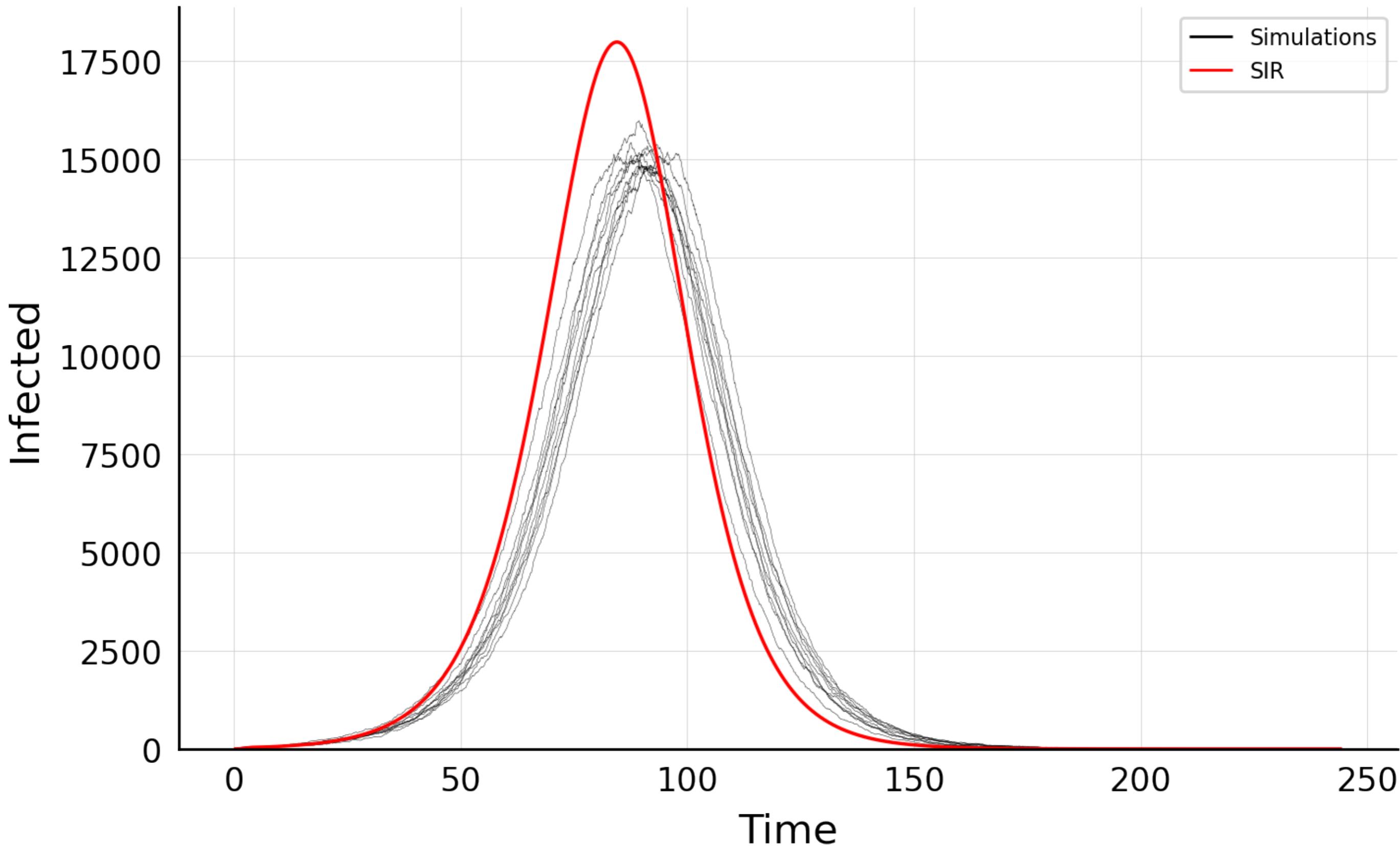
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.02$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
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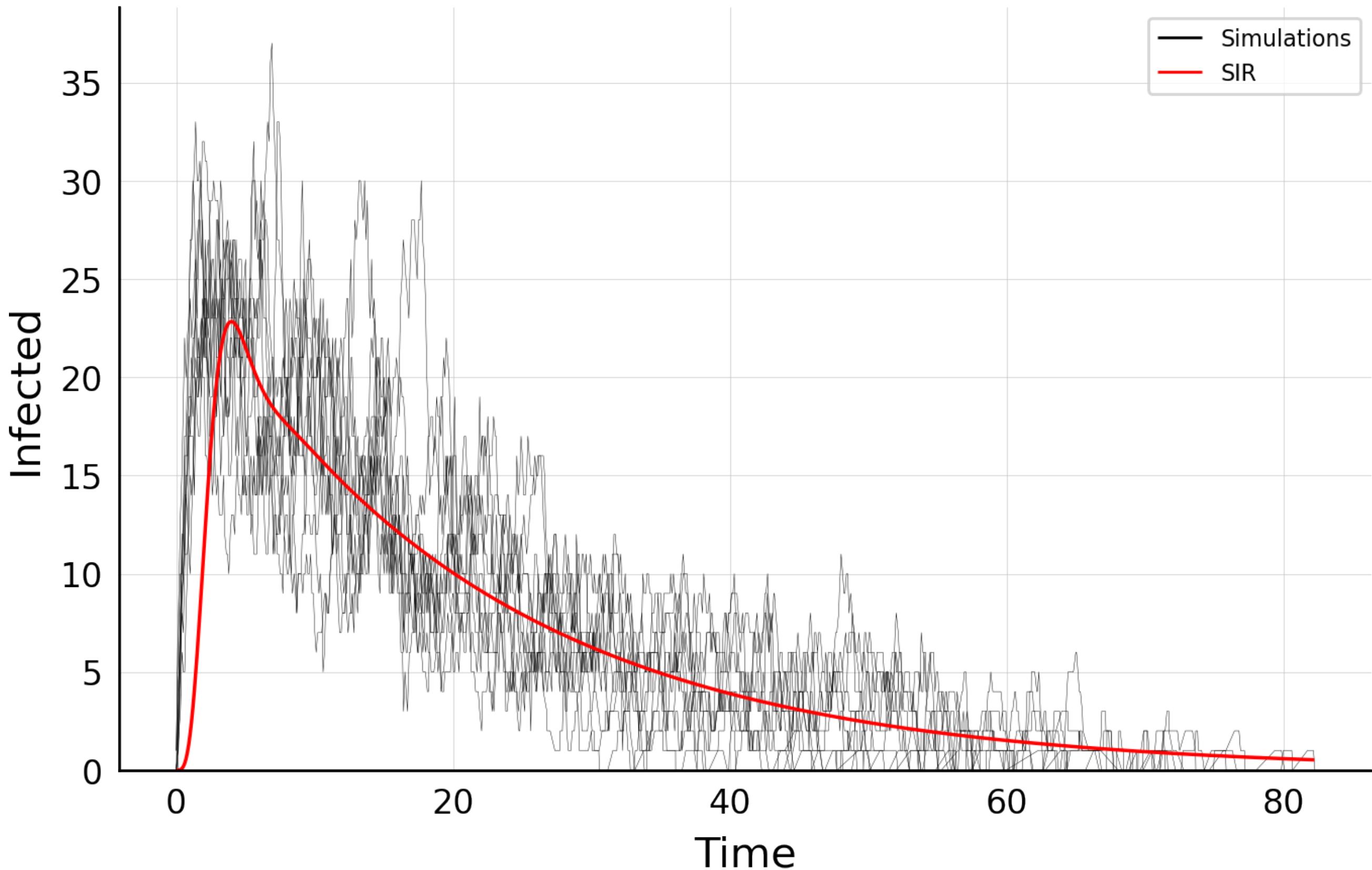
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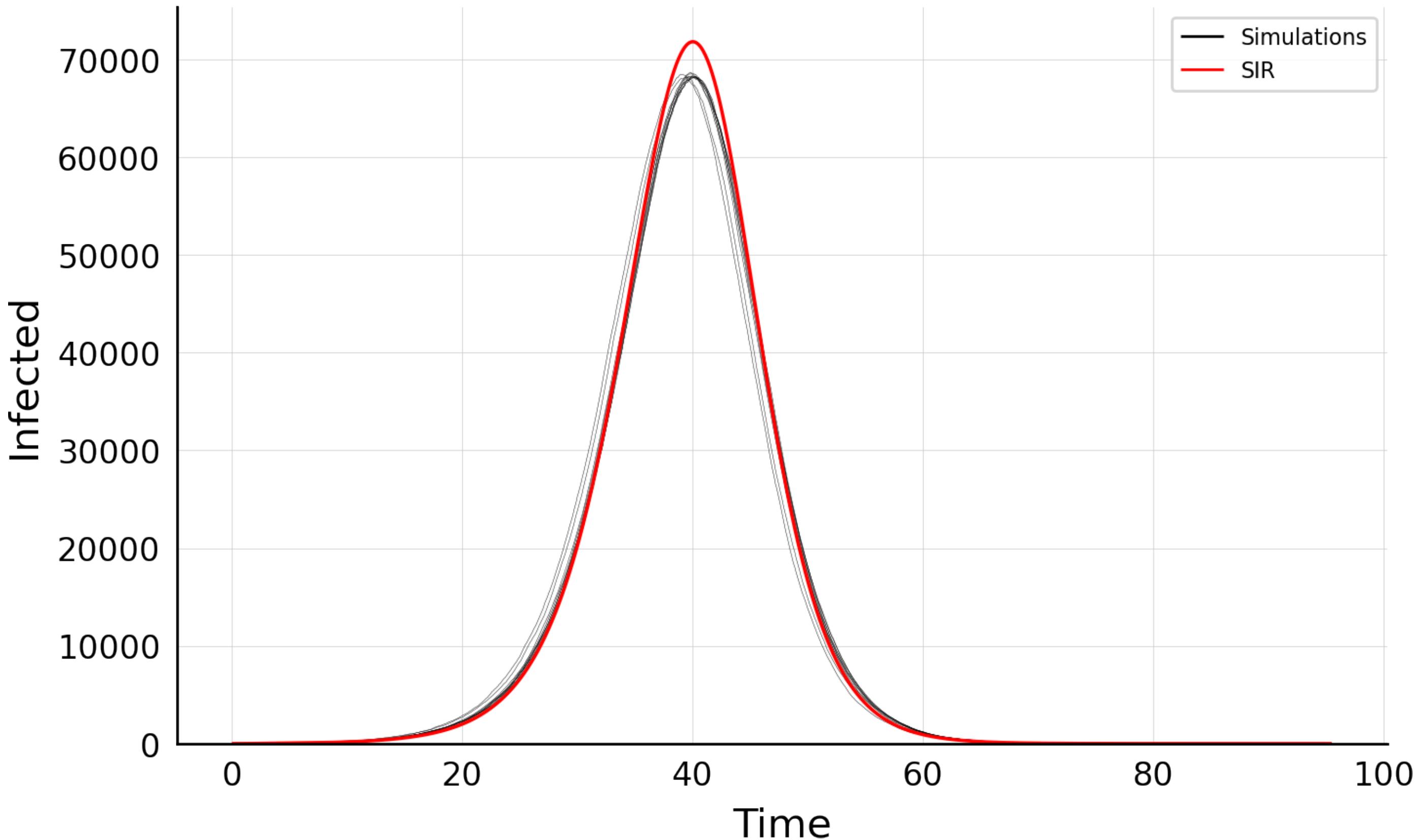
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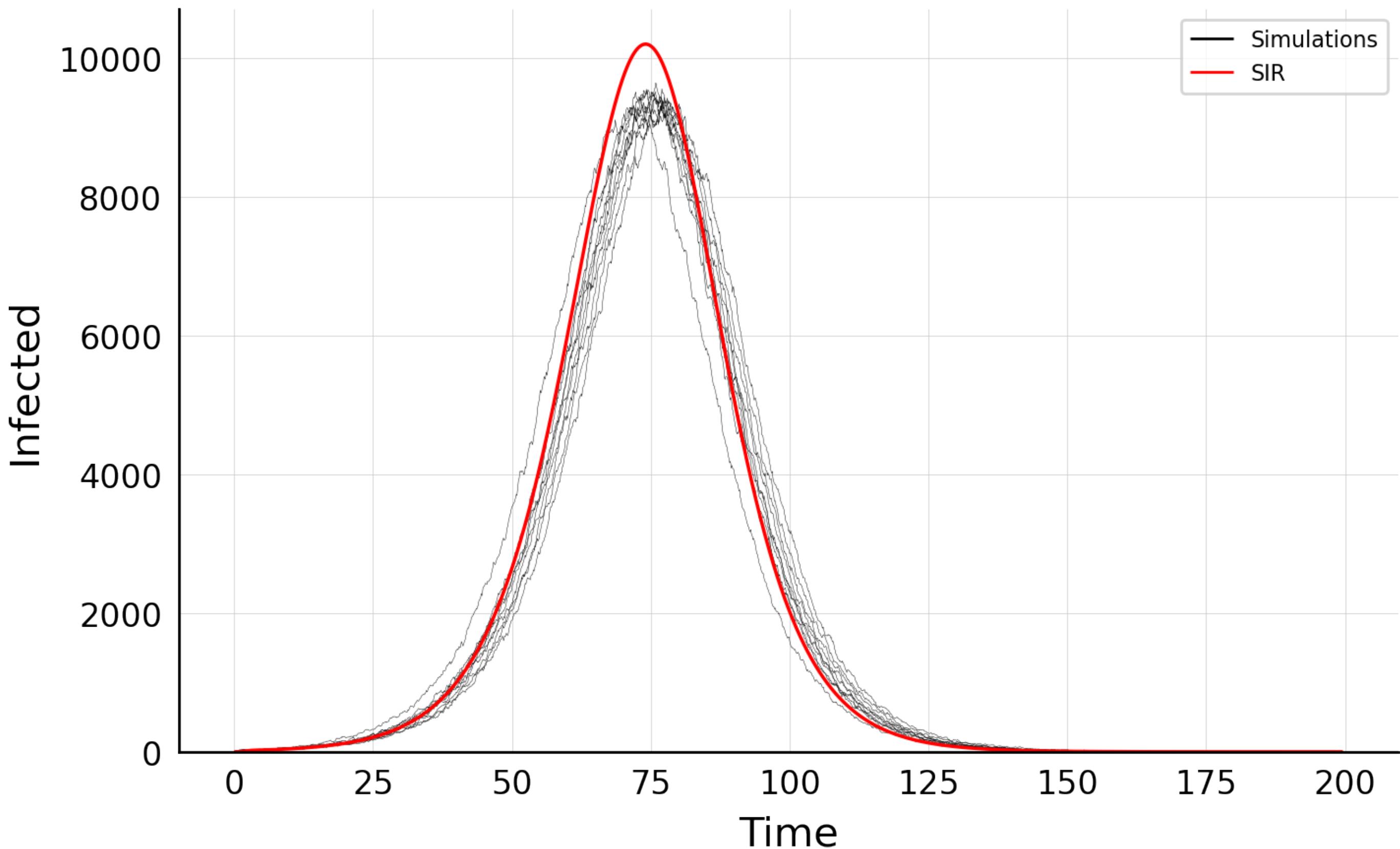
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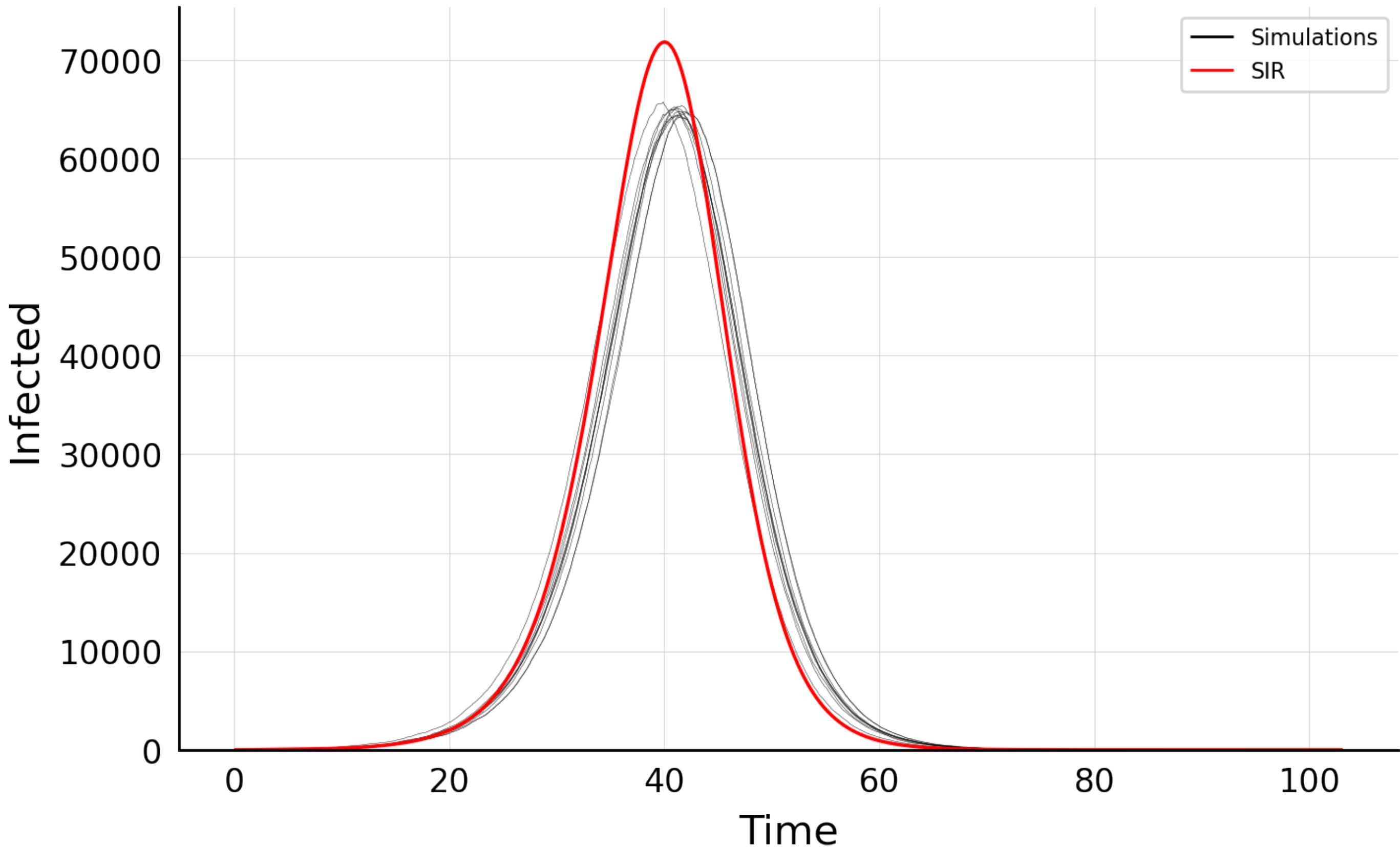
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 $\lambda_E = 1.0$ ,  $\lambda_I = 2.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ ,  $\#10$



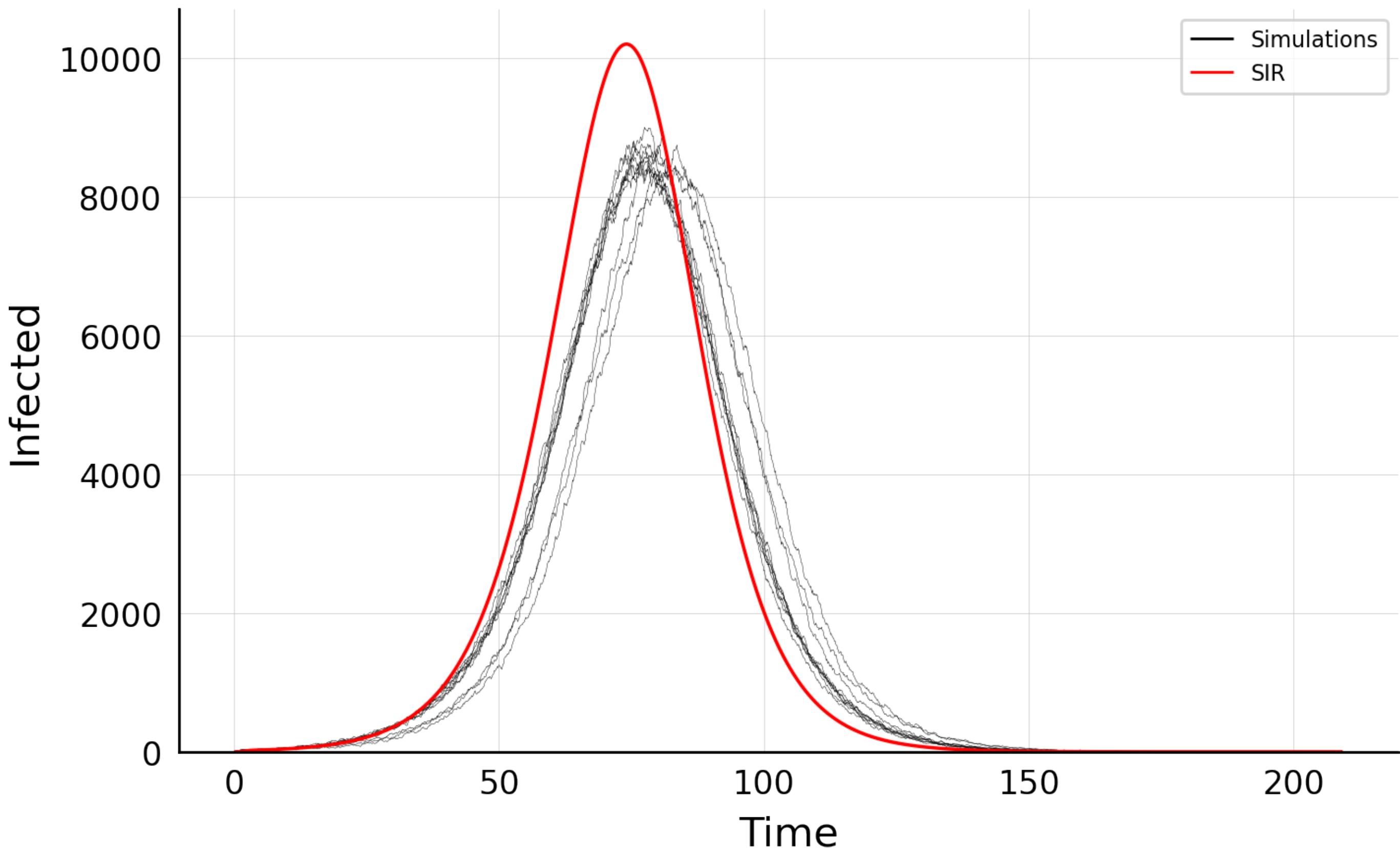
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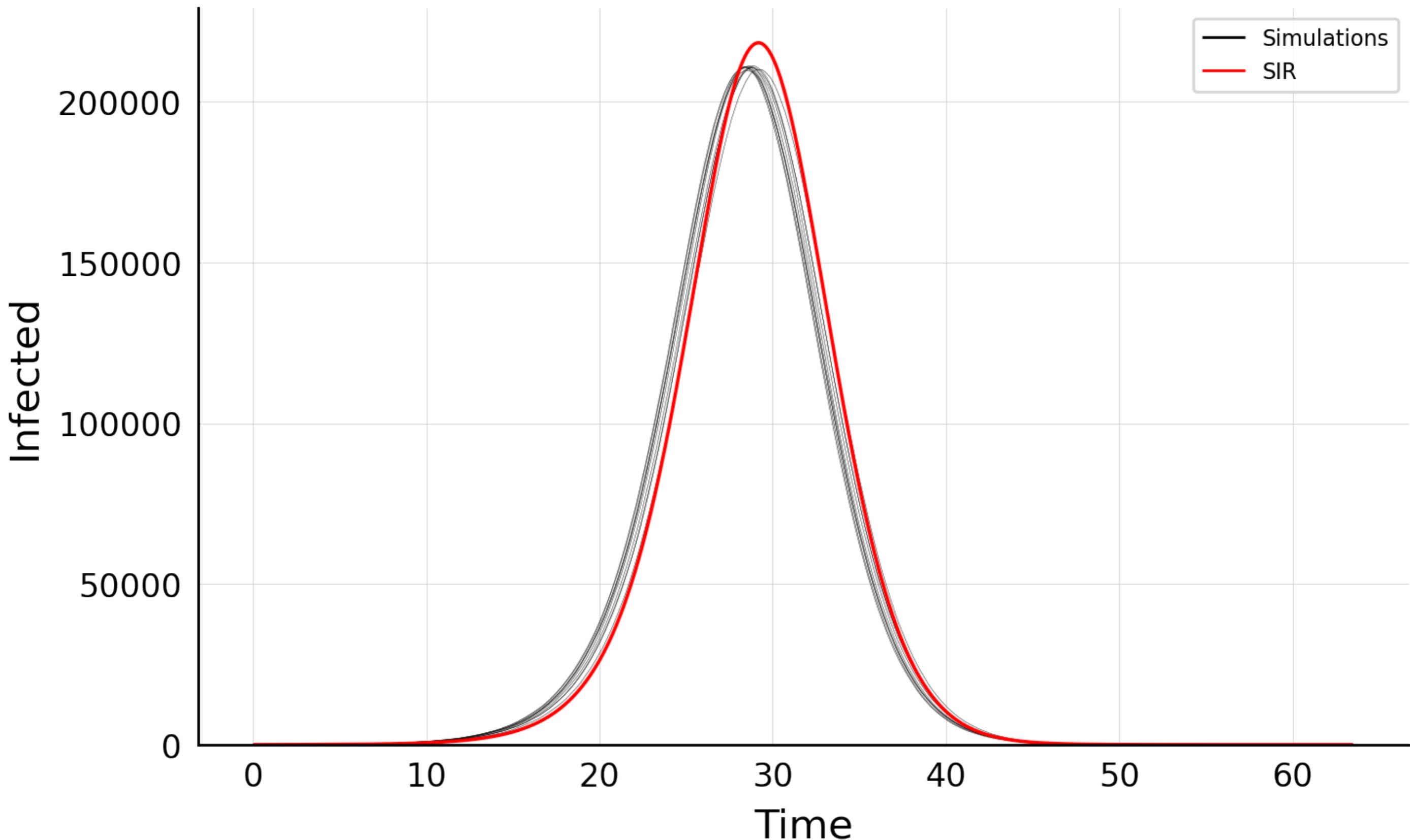
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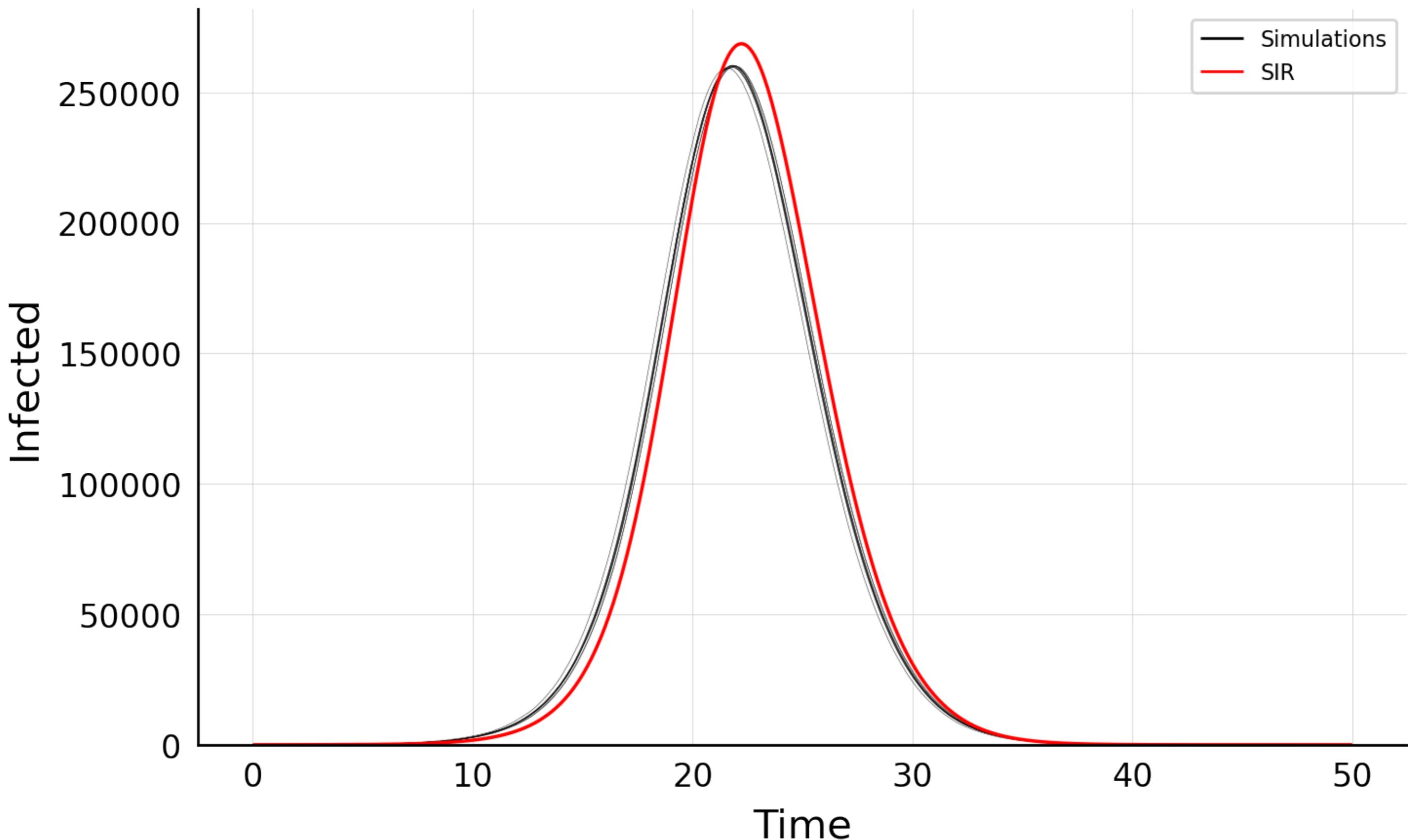
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 $\lambda_E = 1.0$ ,  $\lambda_I = 4.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ ,  $\#10$



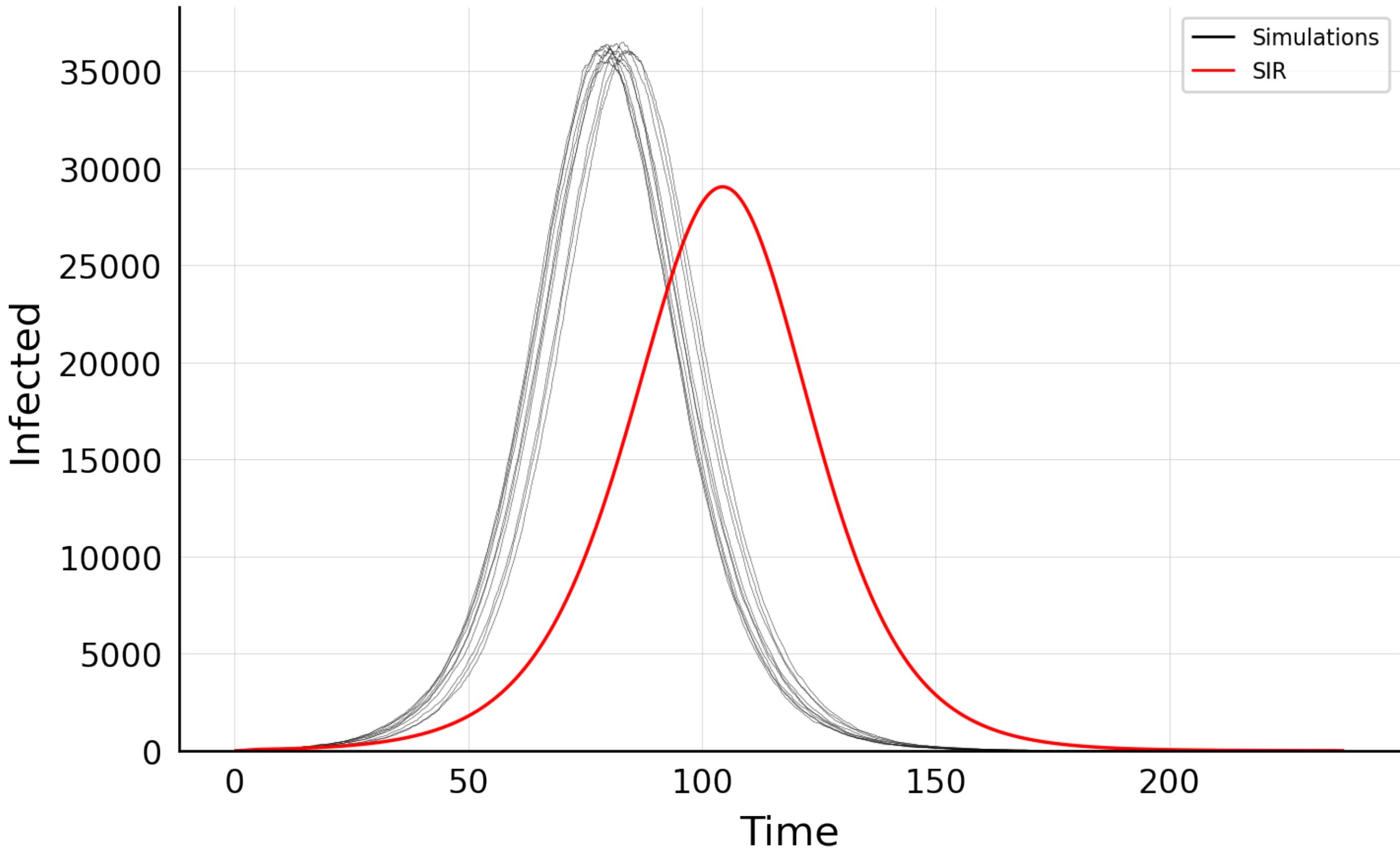
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 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



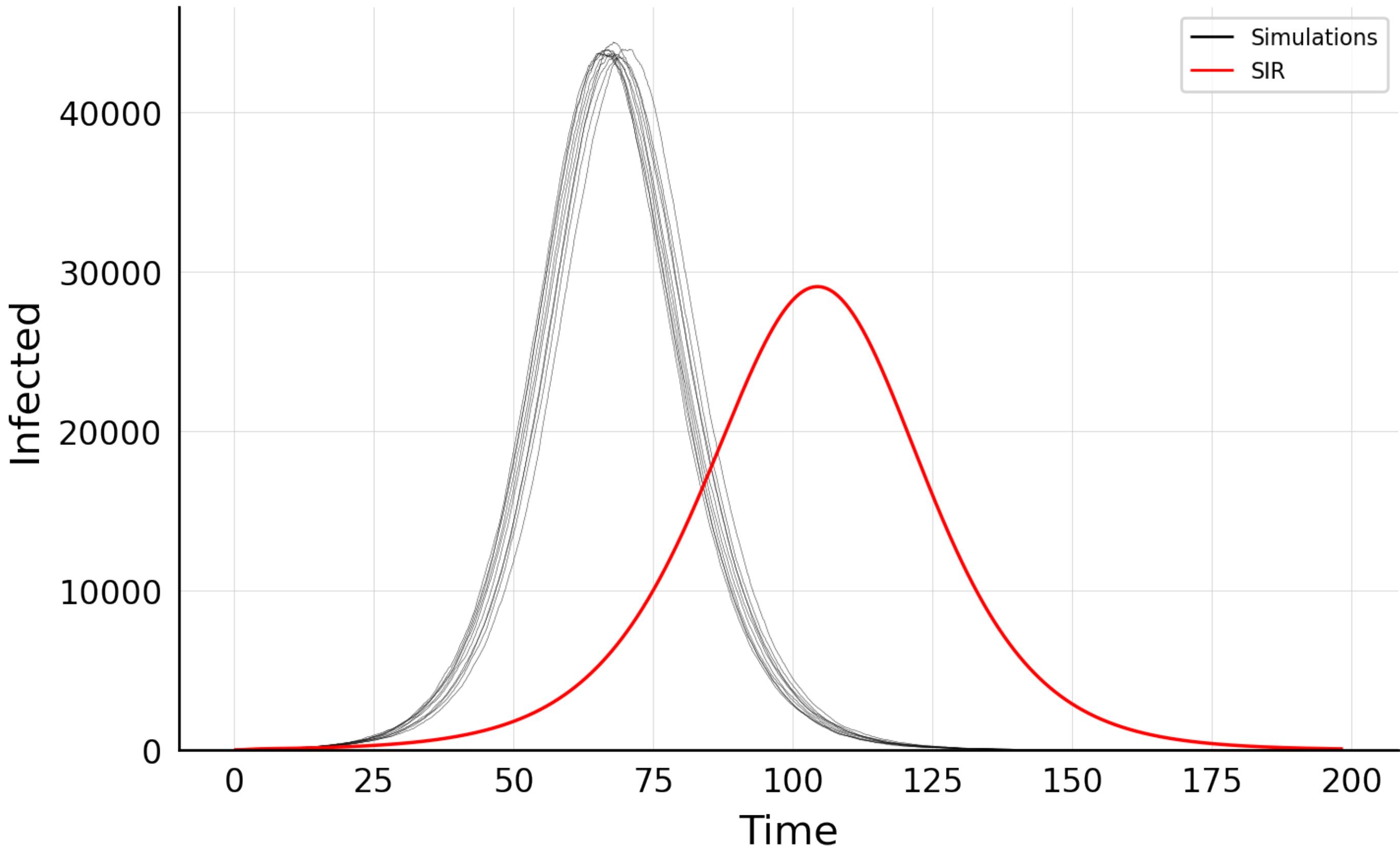
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 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ ,  $\#10$



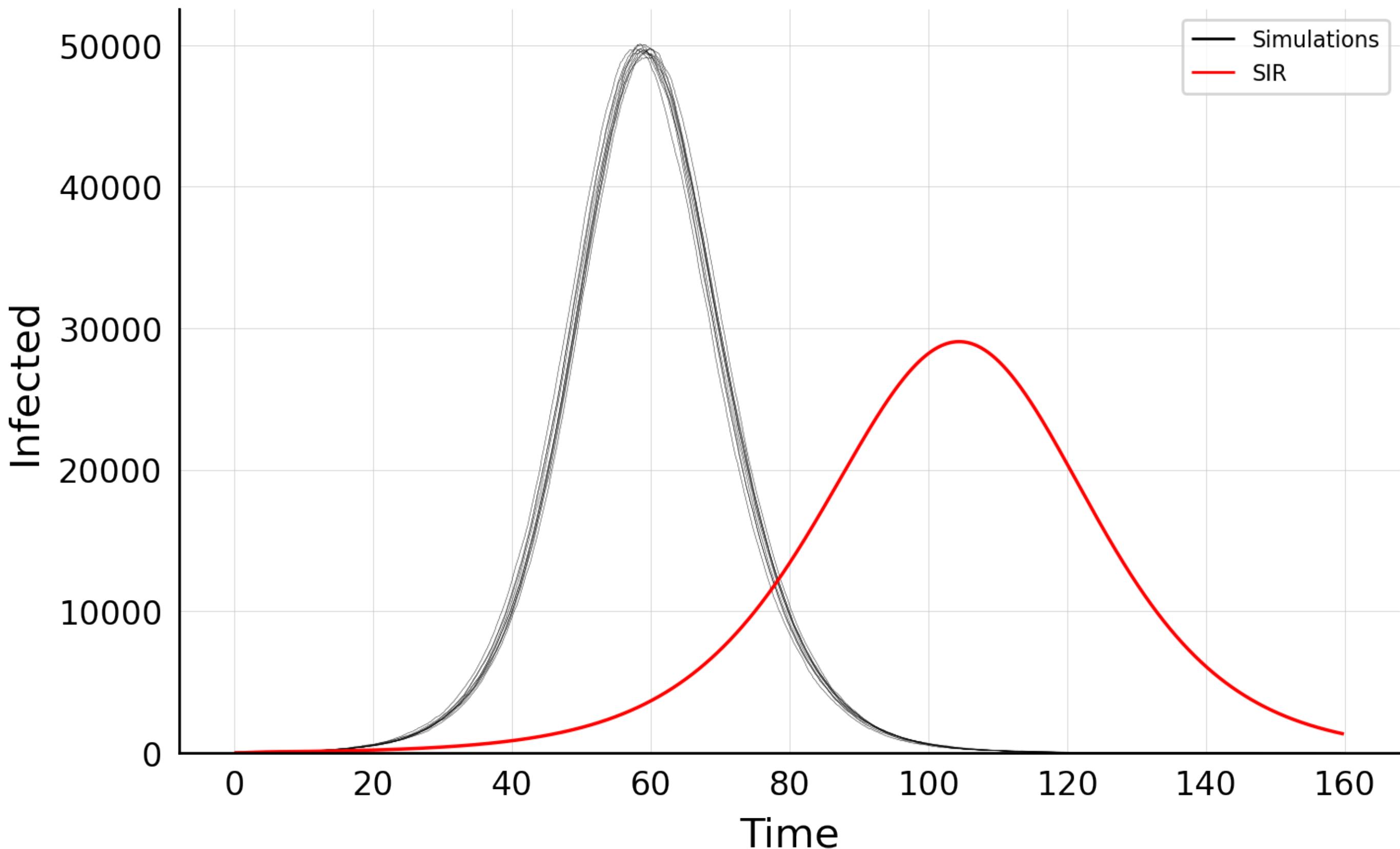
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.25$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



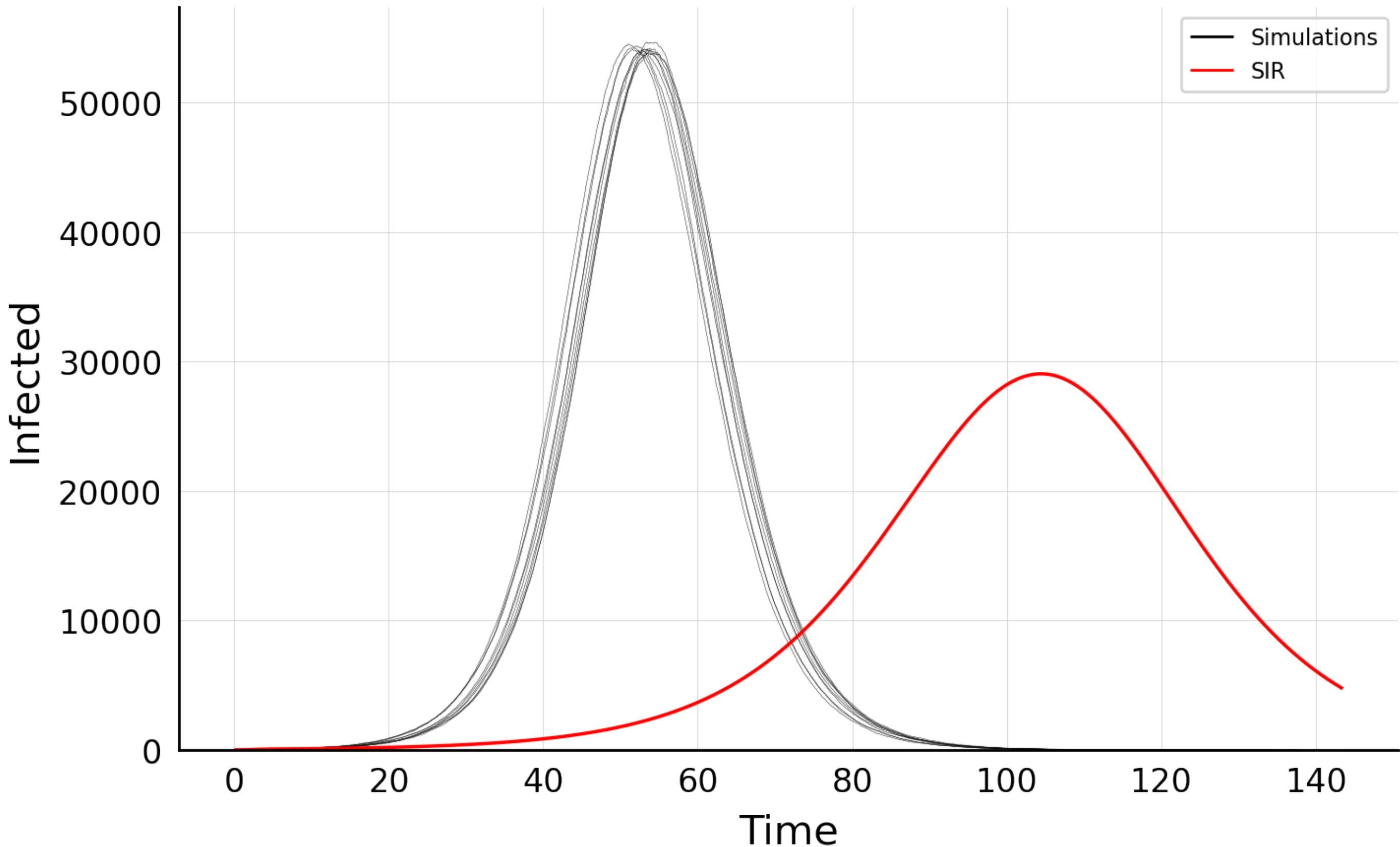
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.5$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ ,  $\#10$



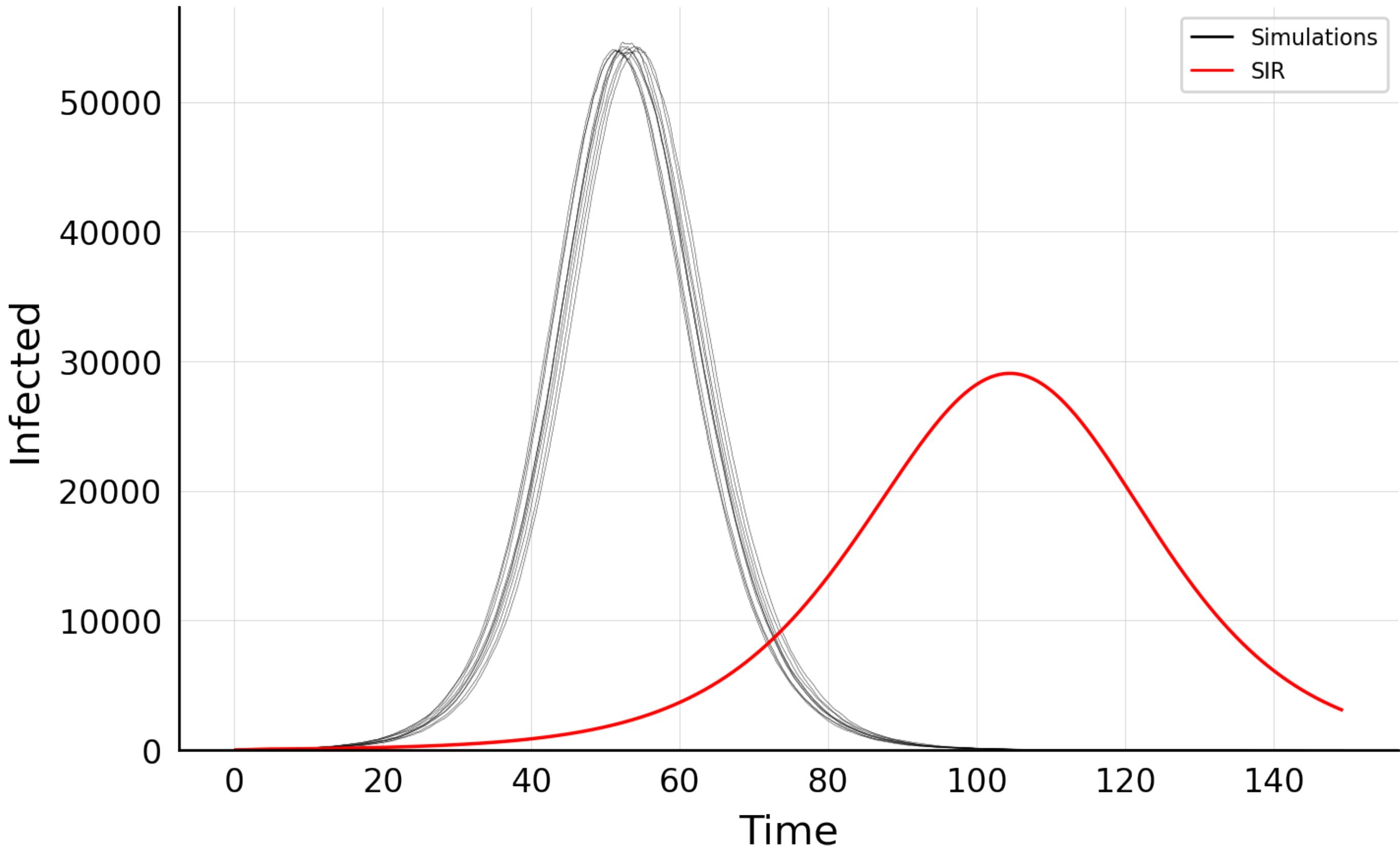
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.75$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



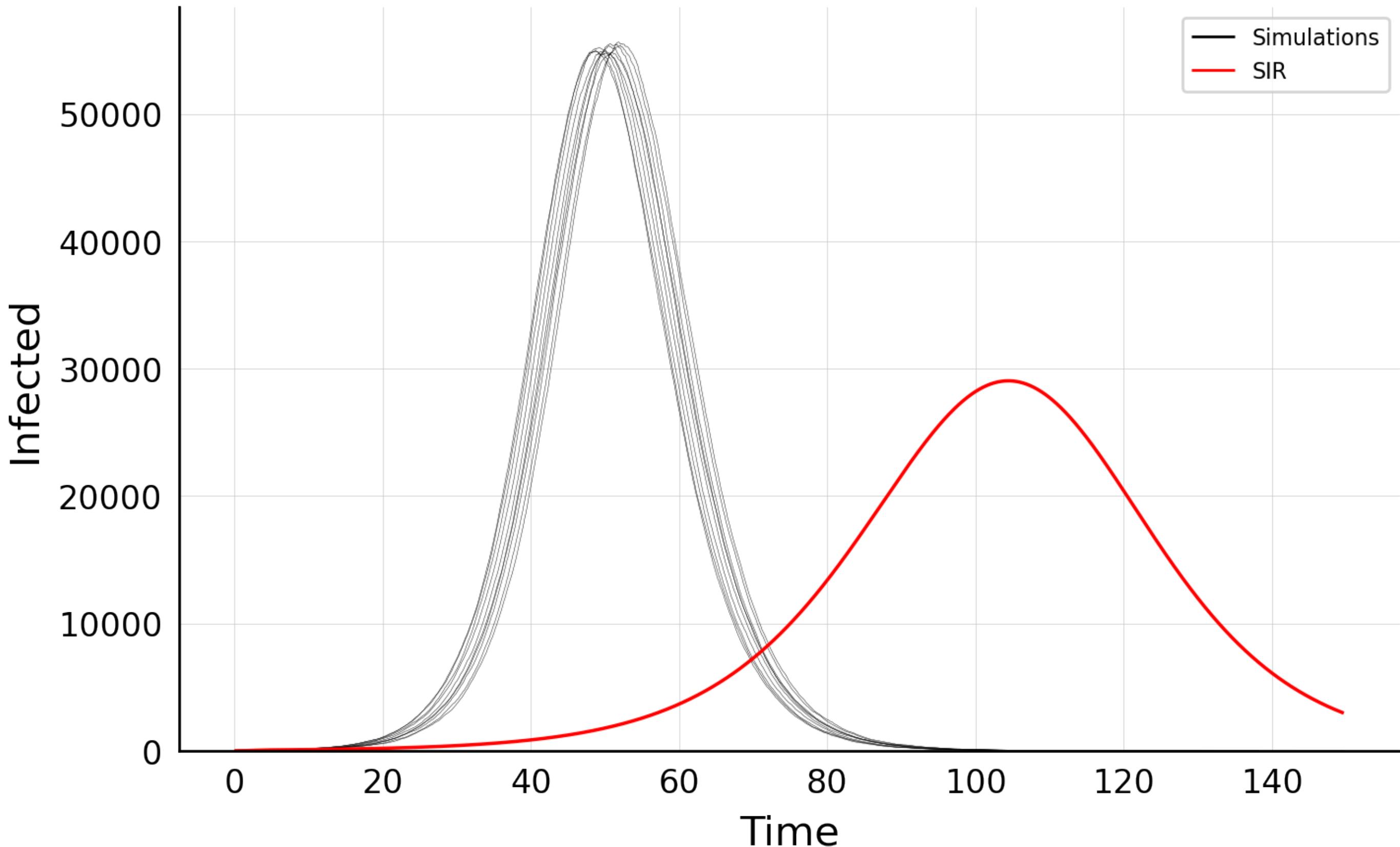
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 1$ ,  $\#10$



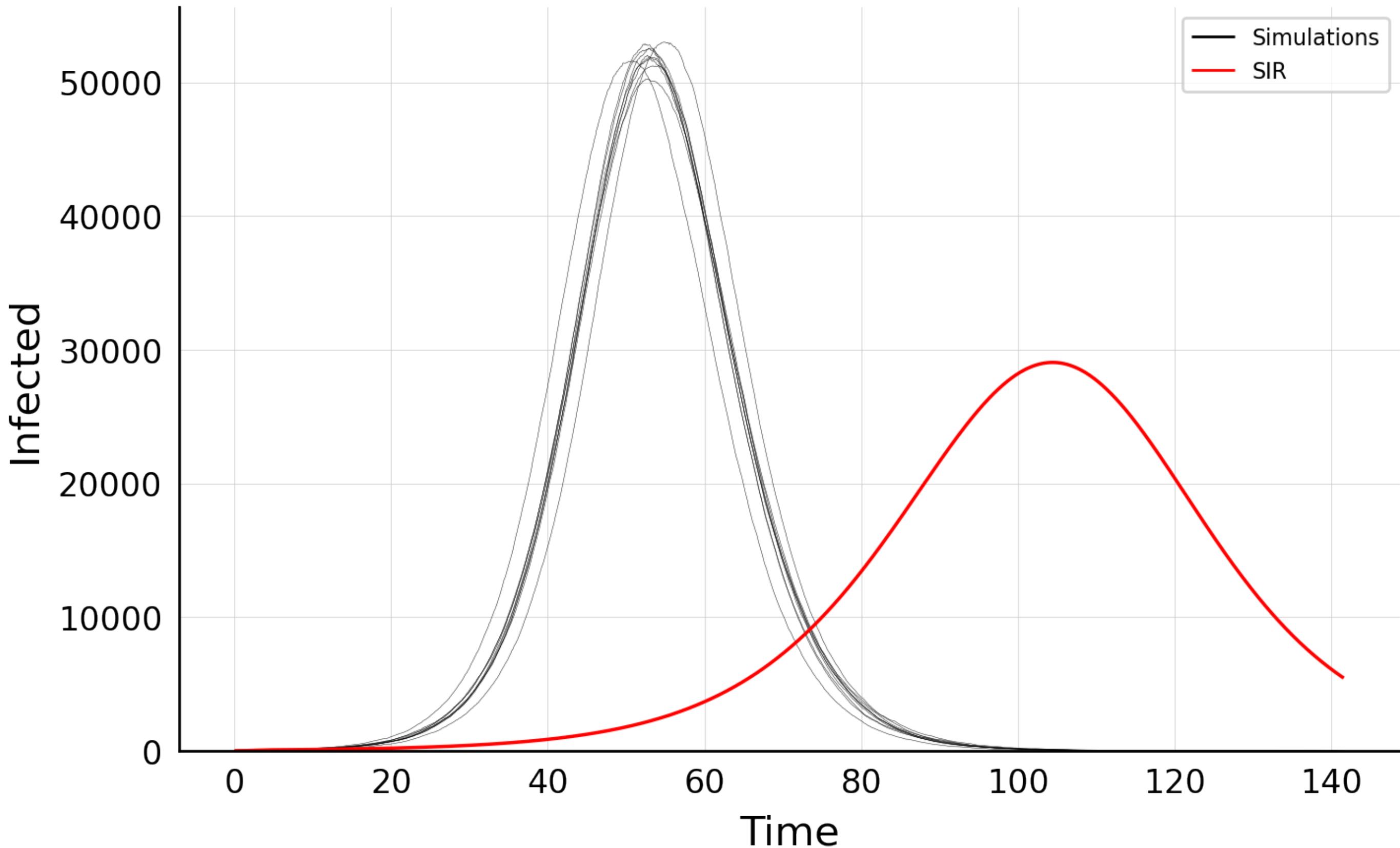
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ ,  $\#10$



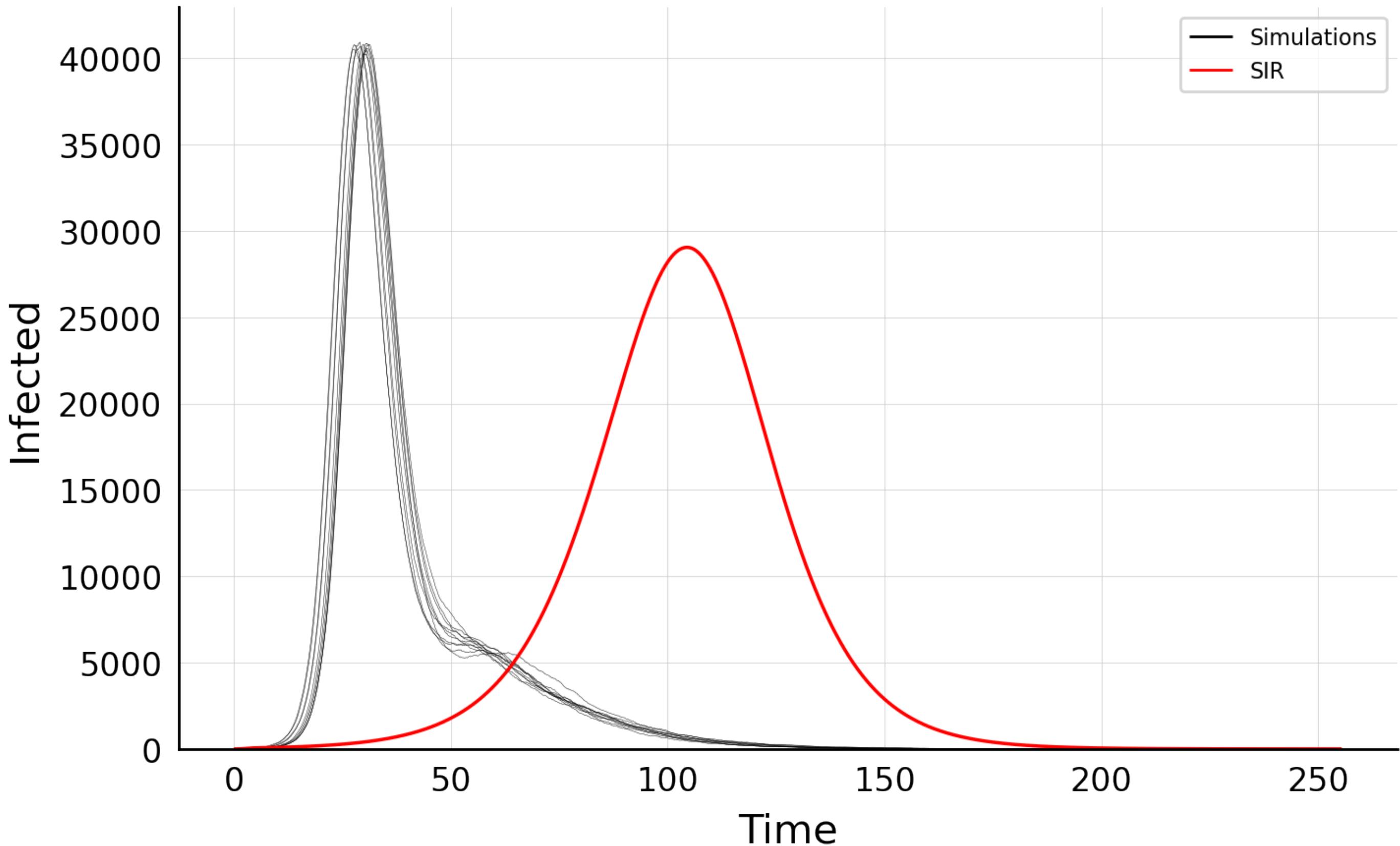
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 10.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



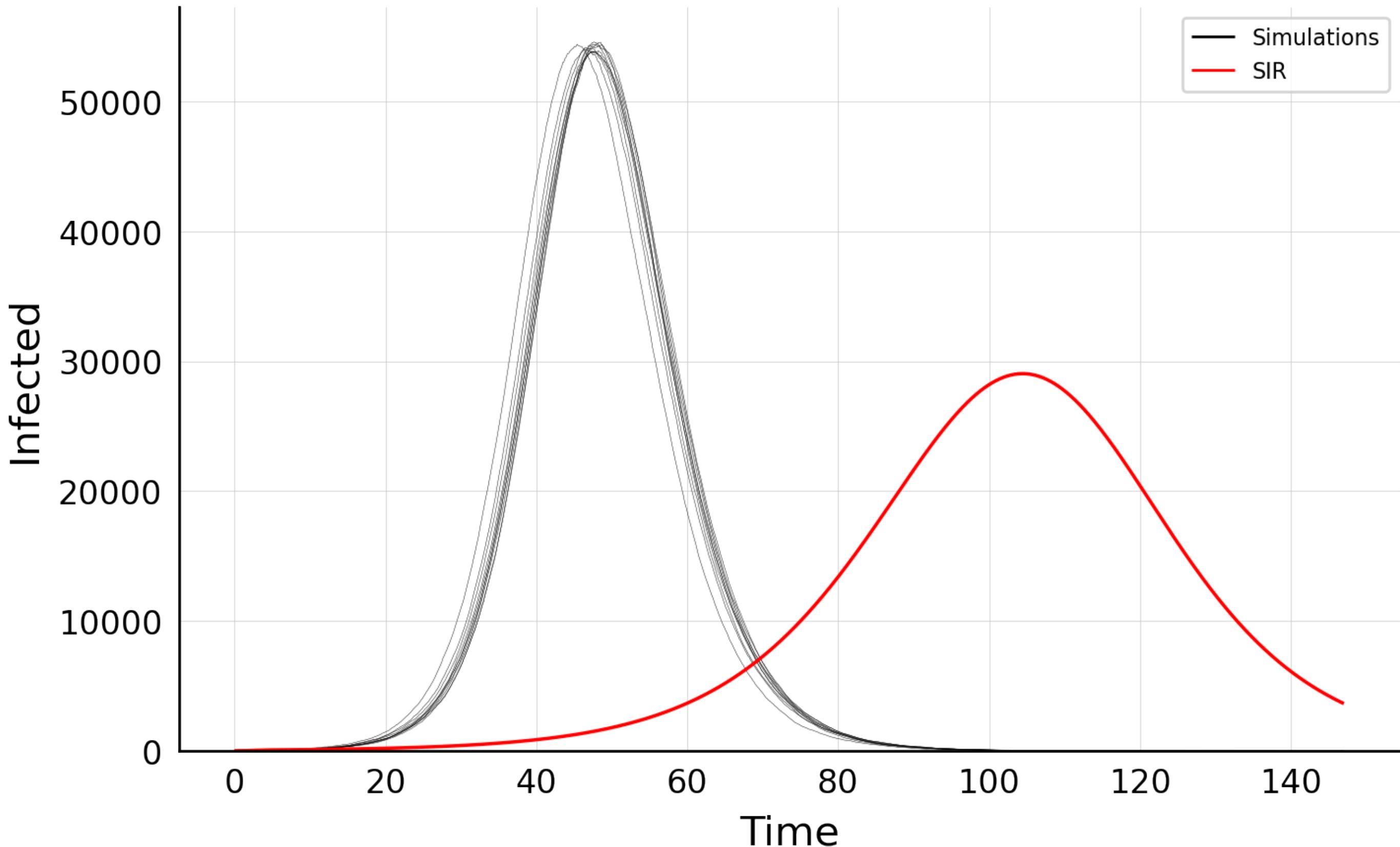
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 100.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 1$ ,  $\#10$



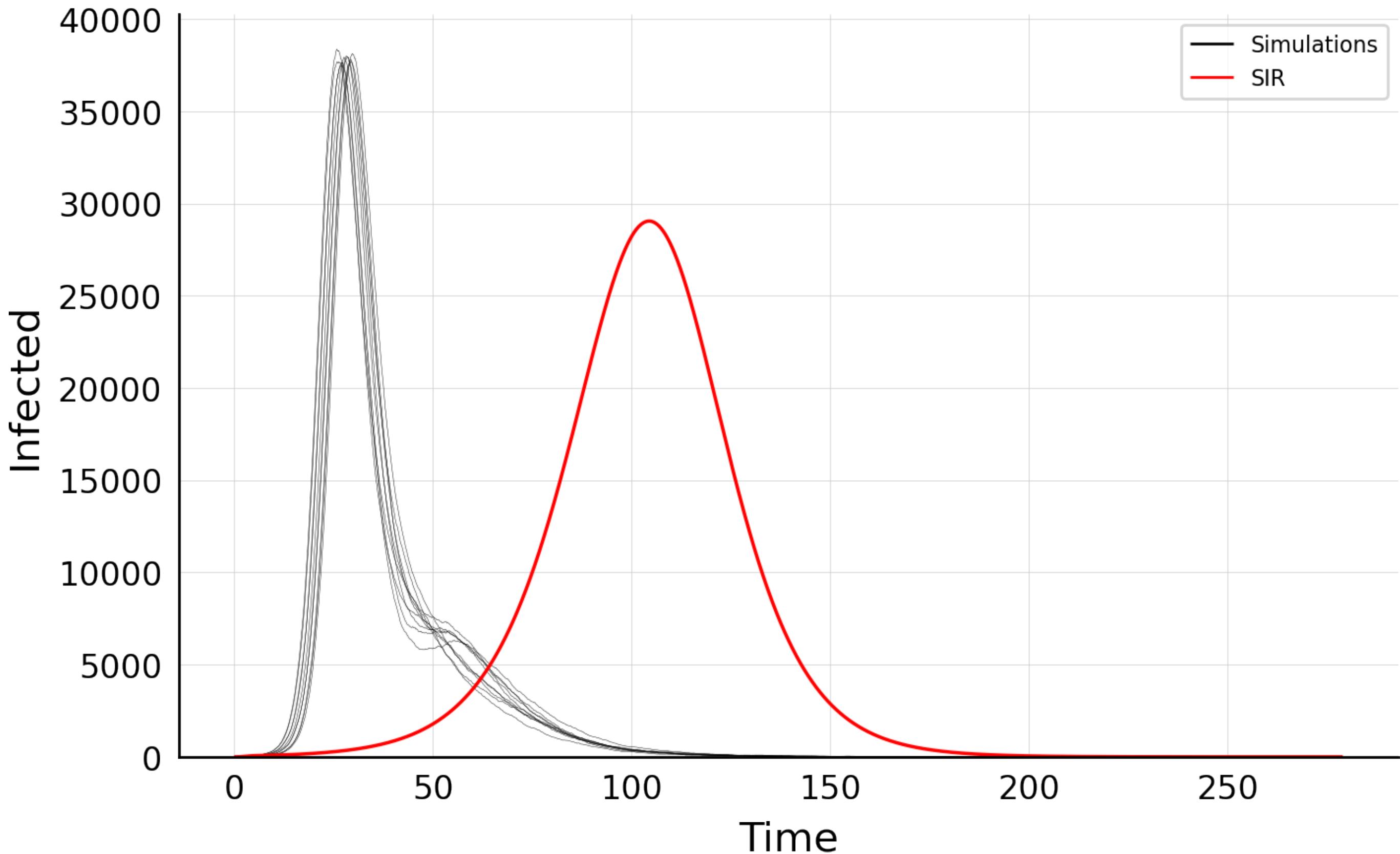
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 100.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



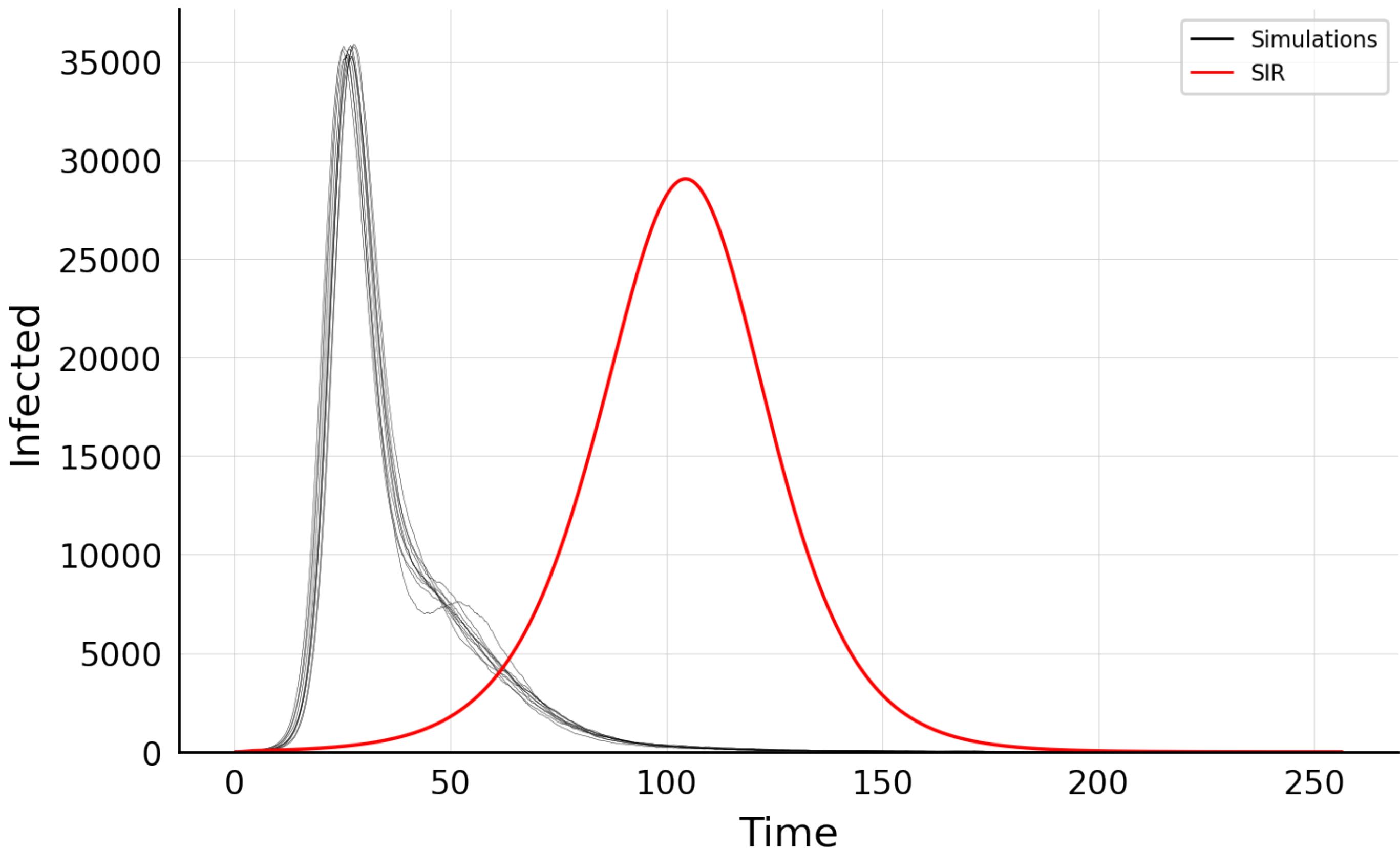
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 15.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



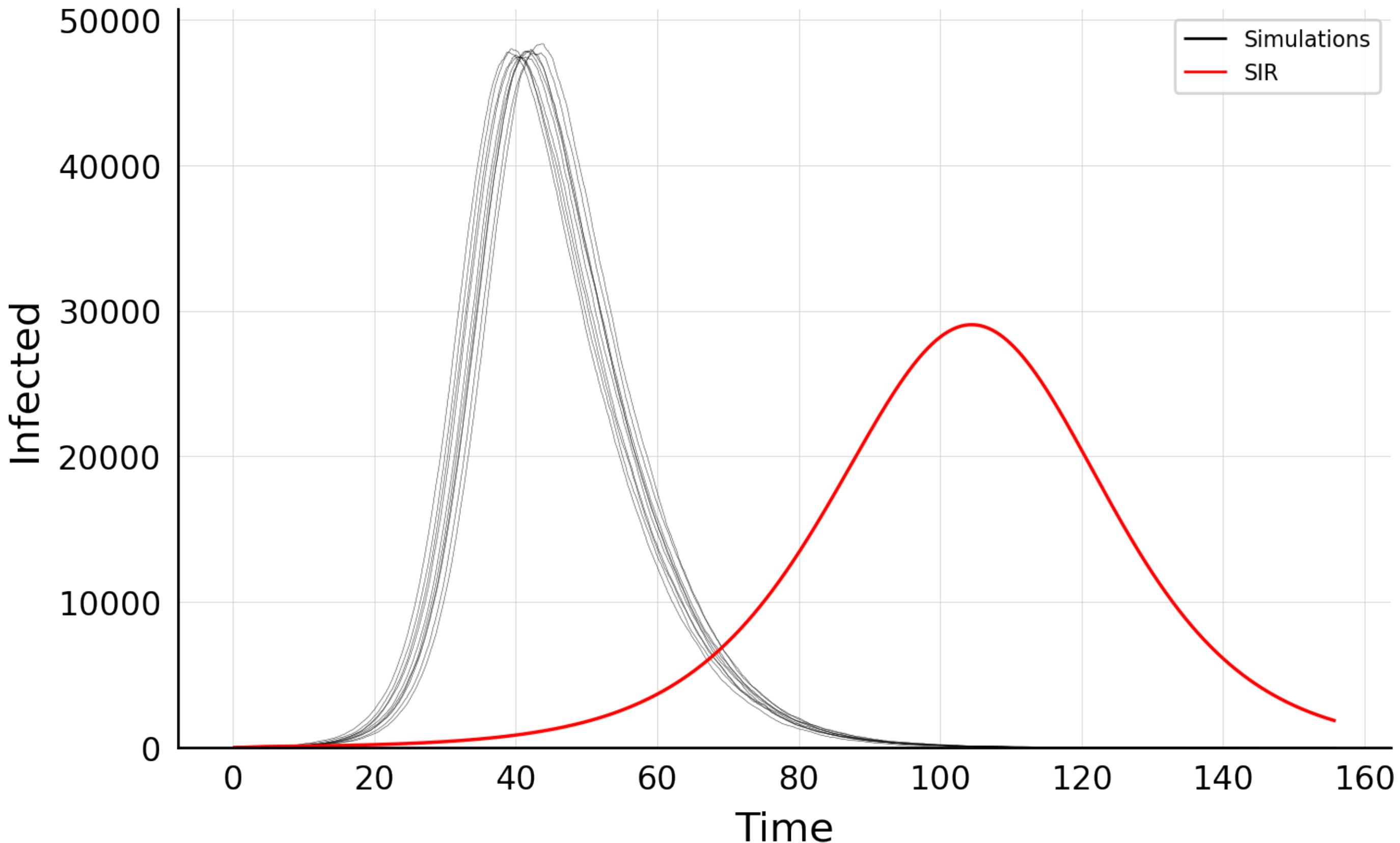
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 150.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



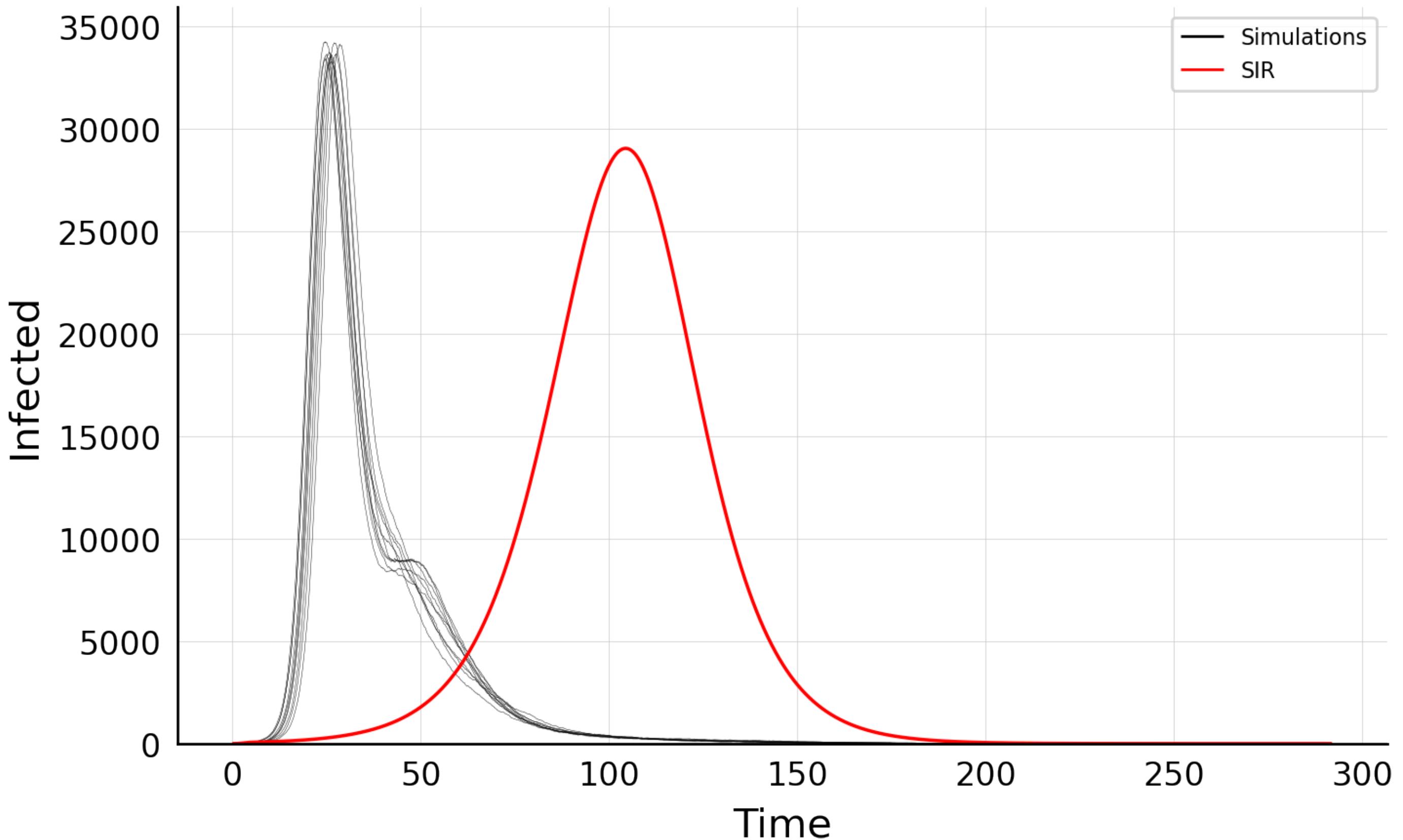
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 200.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



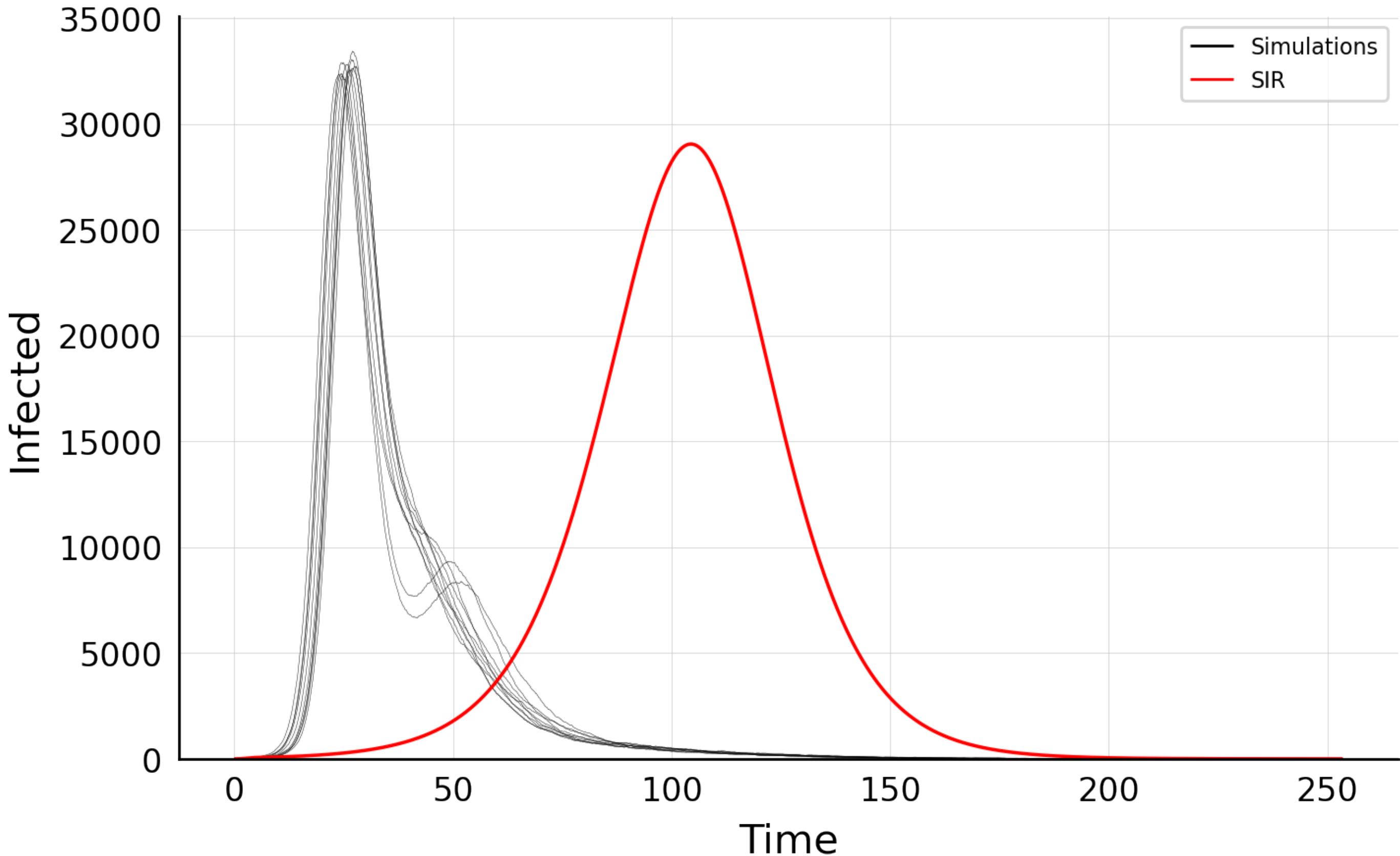
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 25.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



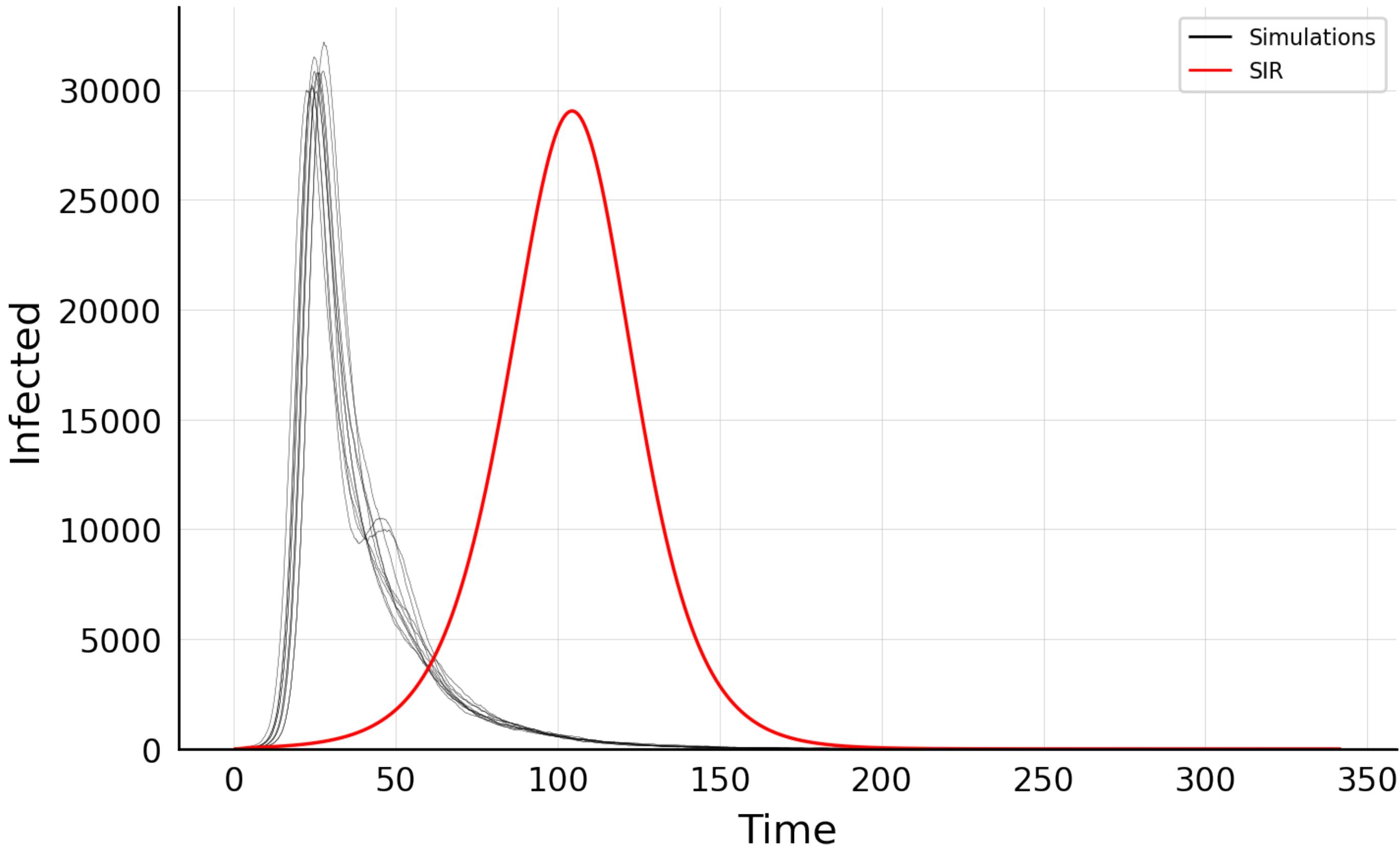
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 250.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



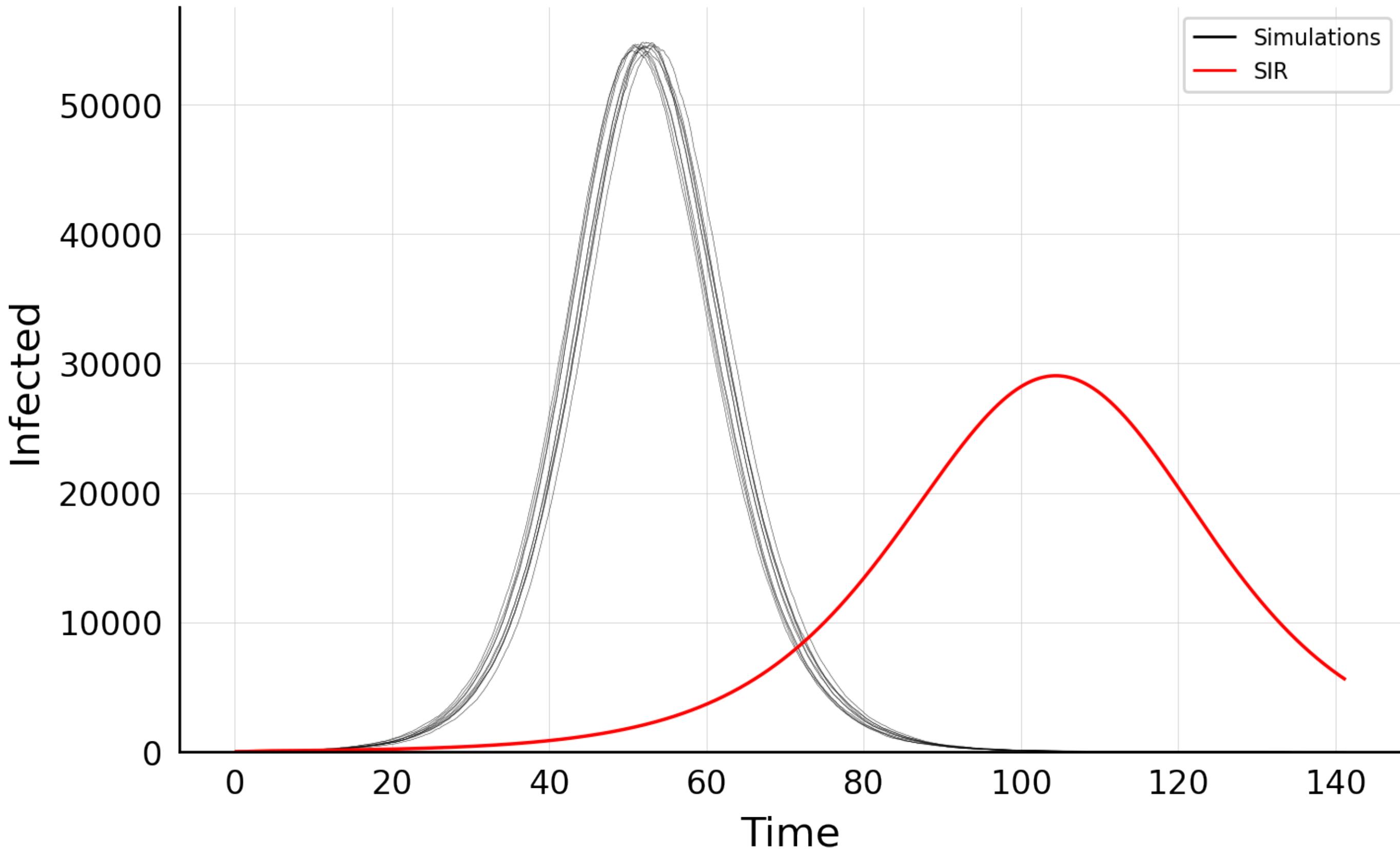
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 300.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



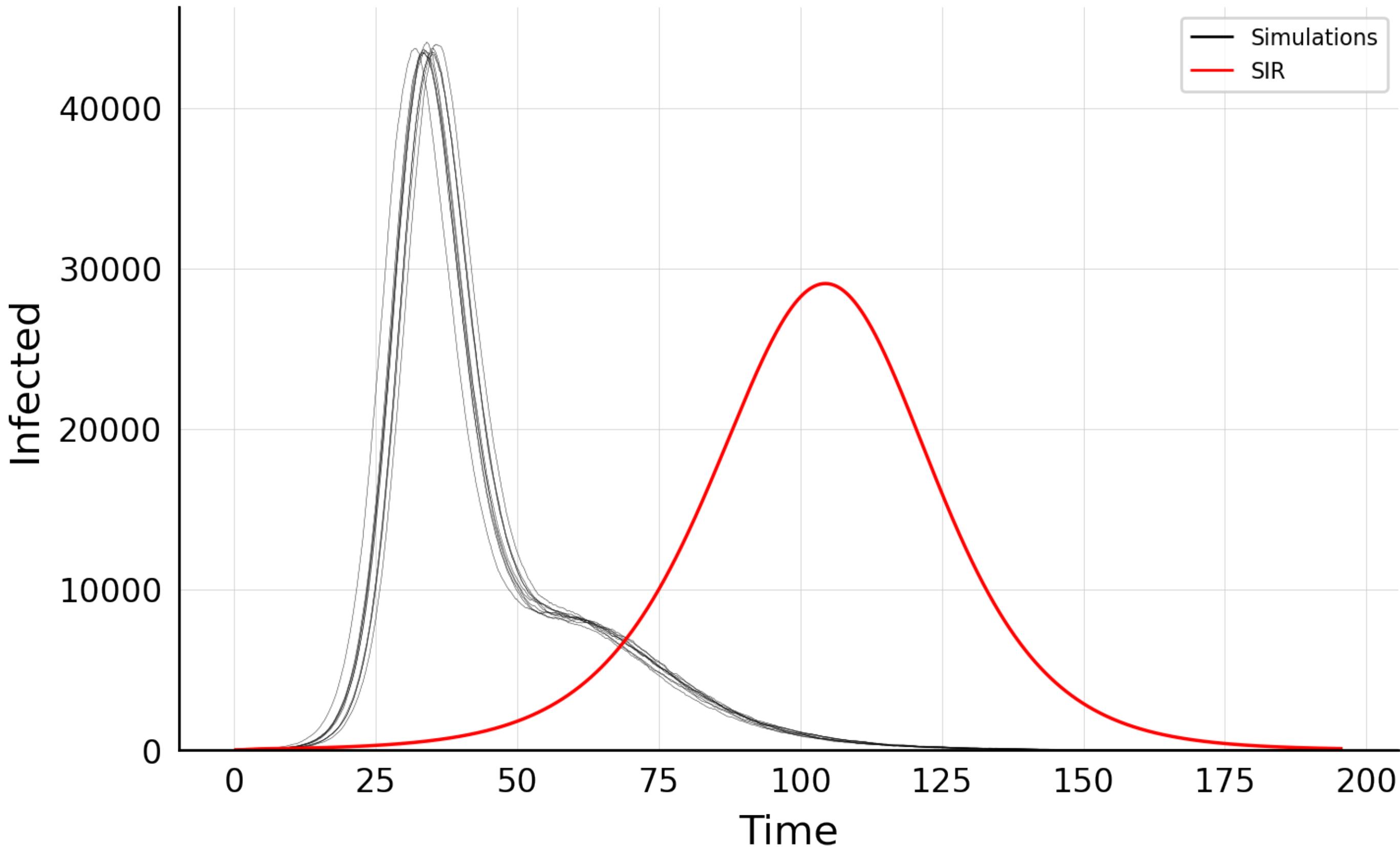
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 400.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ ,  $\#10$



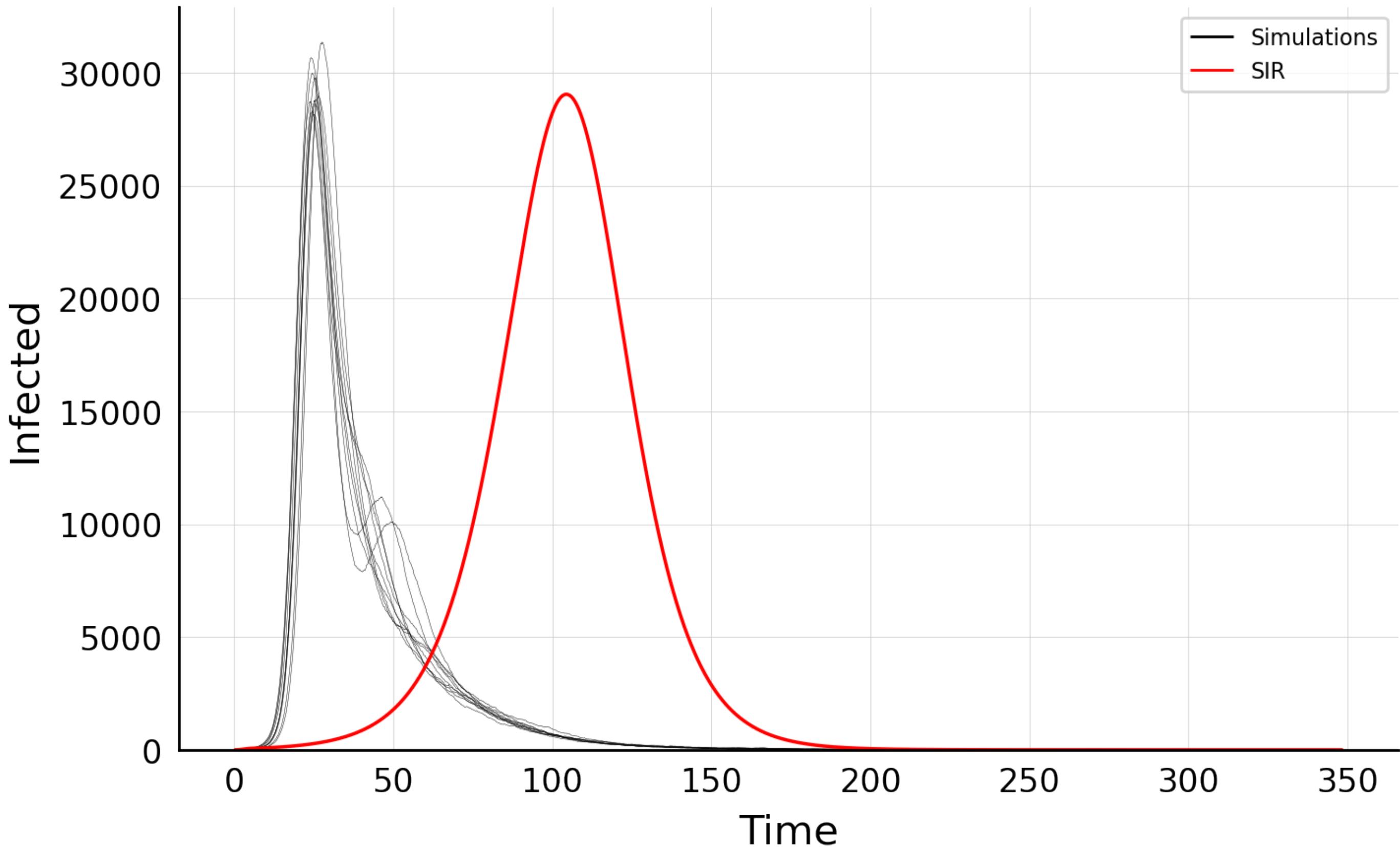
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 5.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ ,  $\#10$



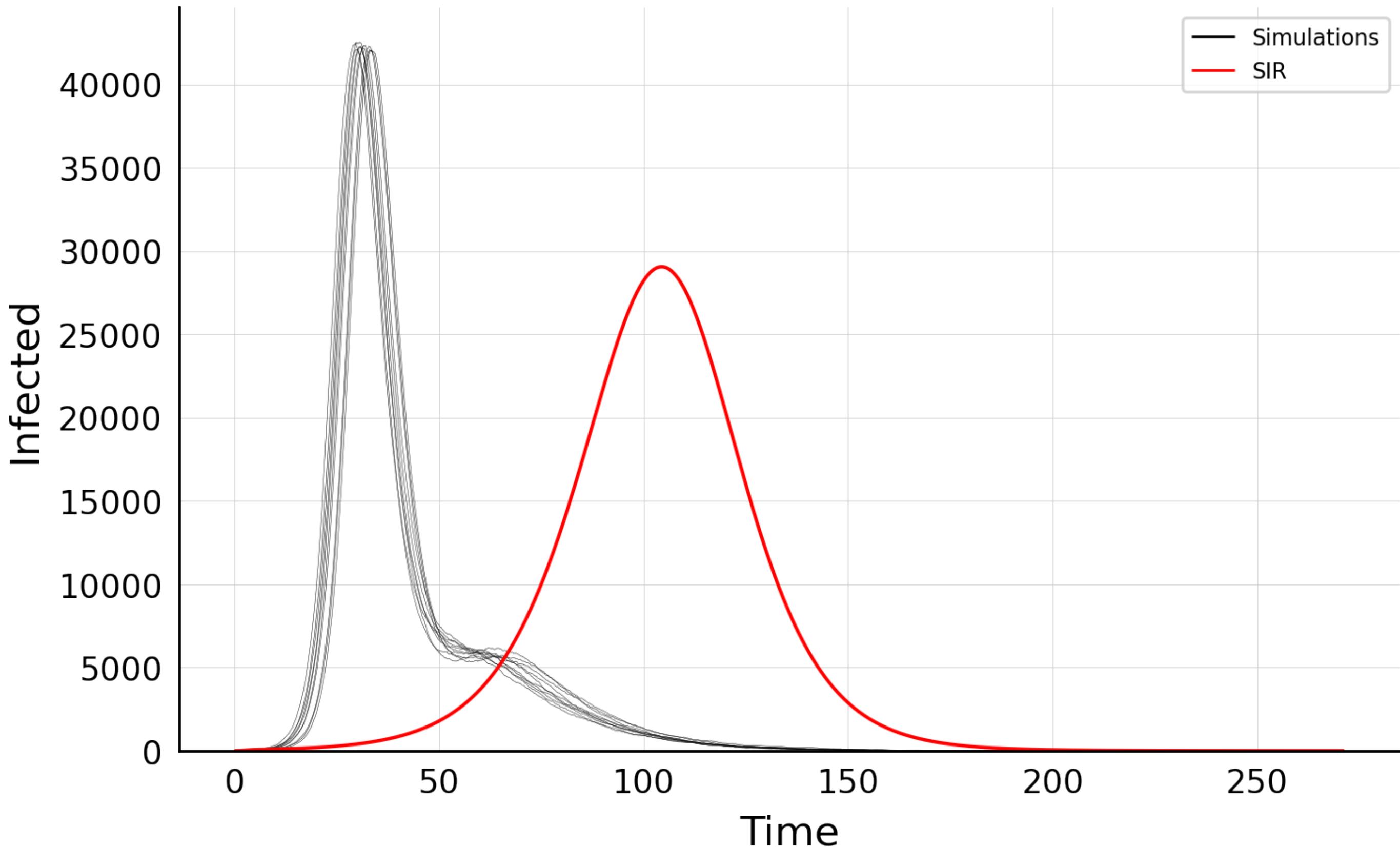
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 50.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



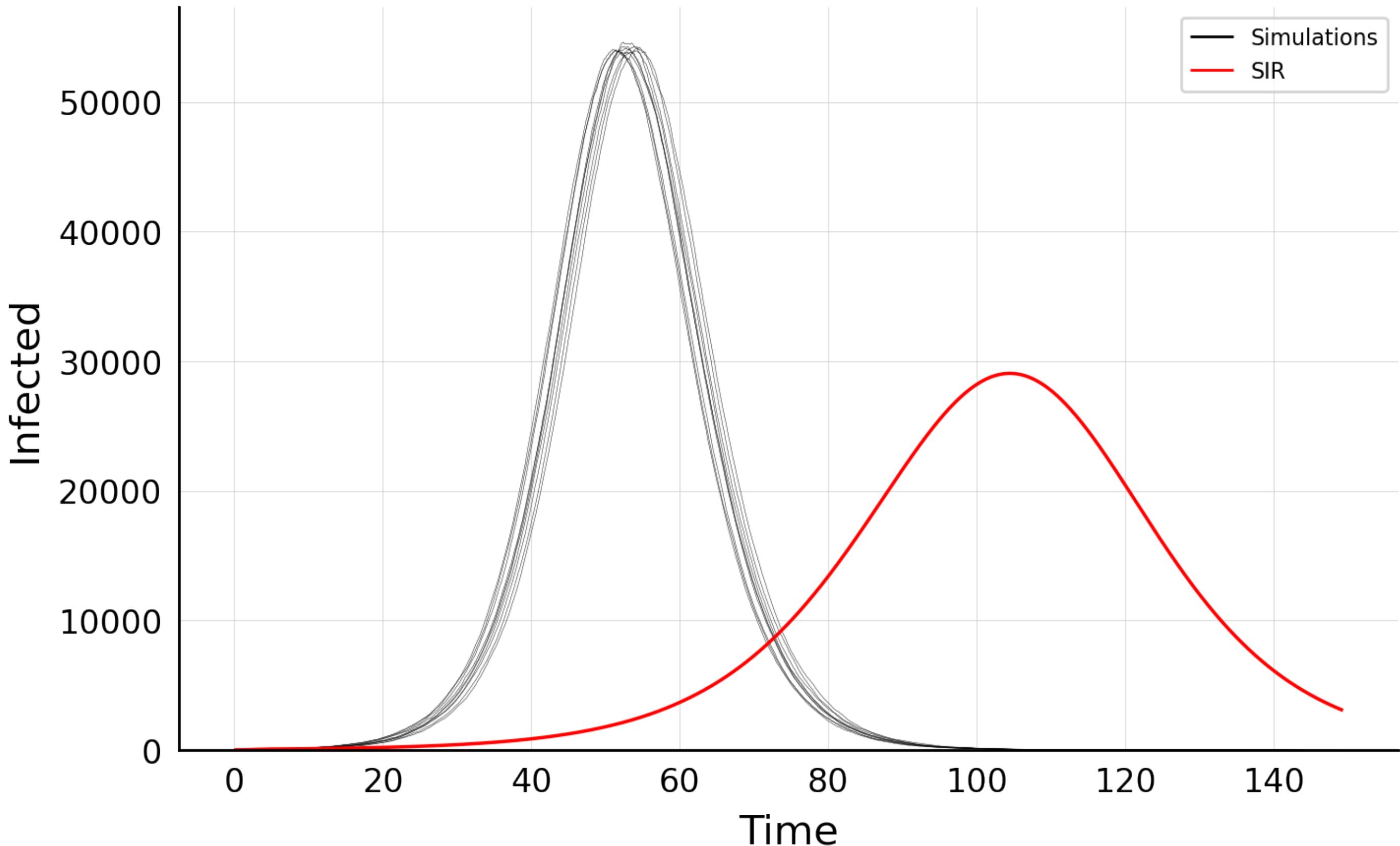
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 500.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



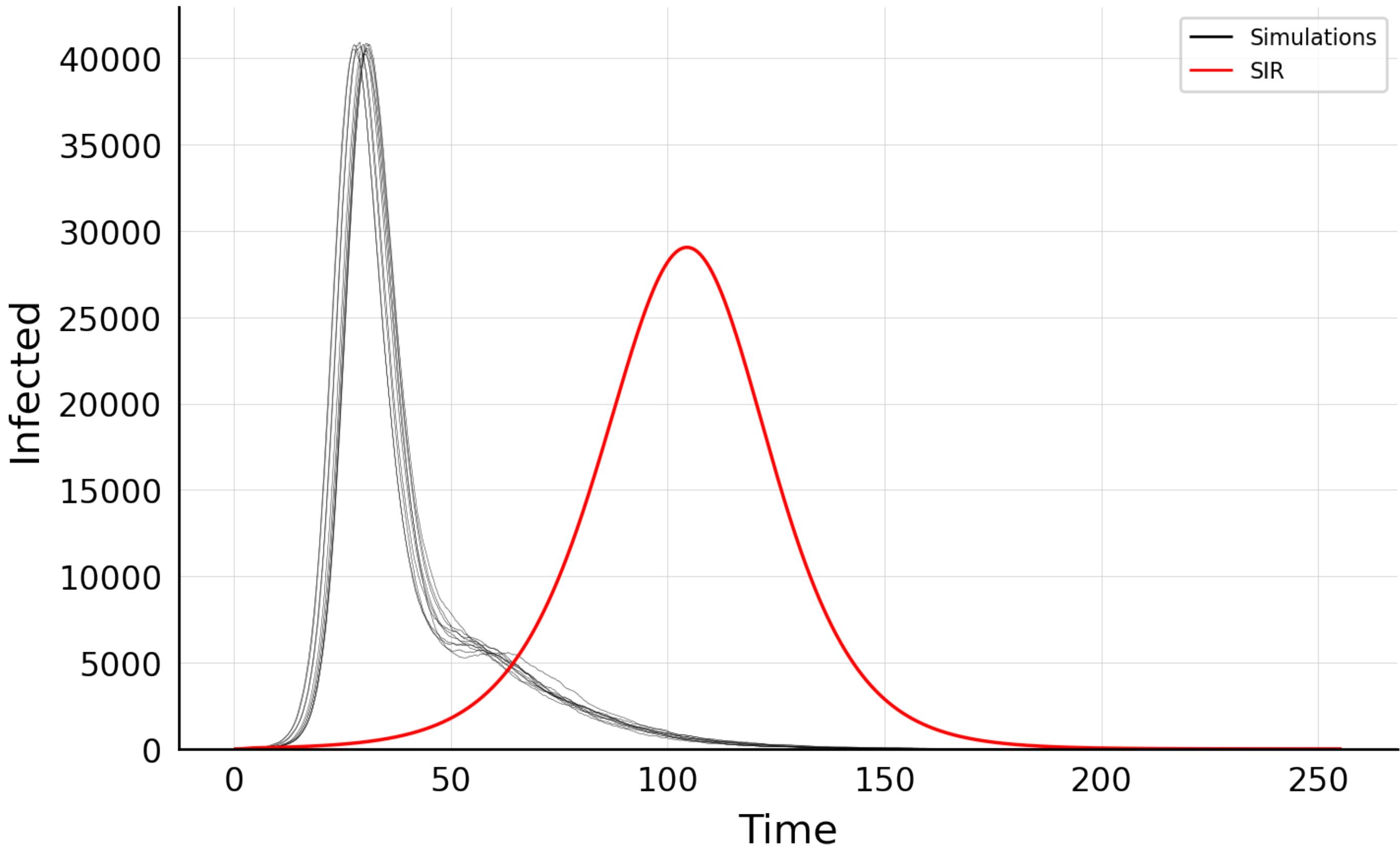
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 75.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



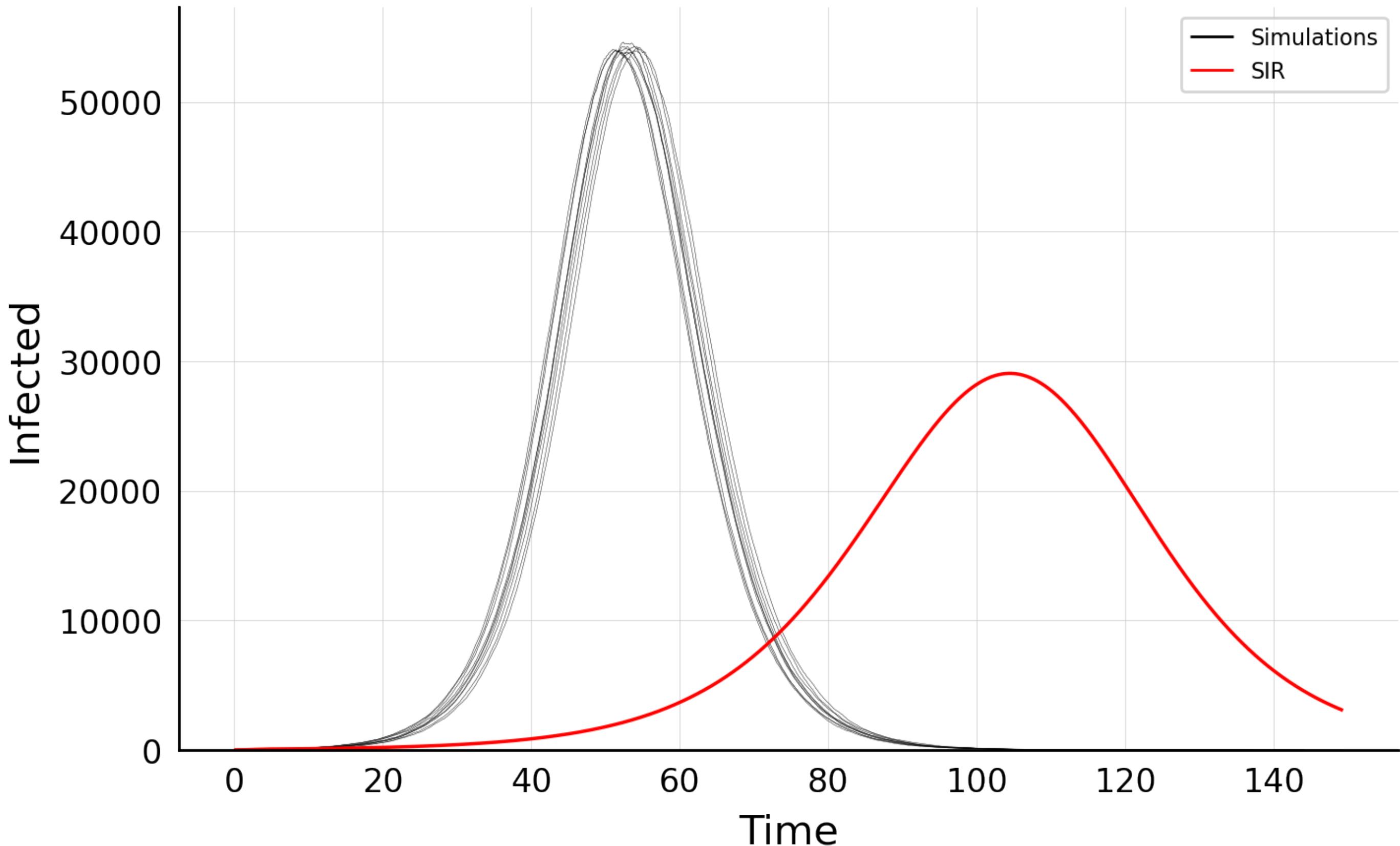
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.25$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



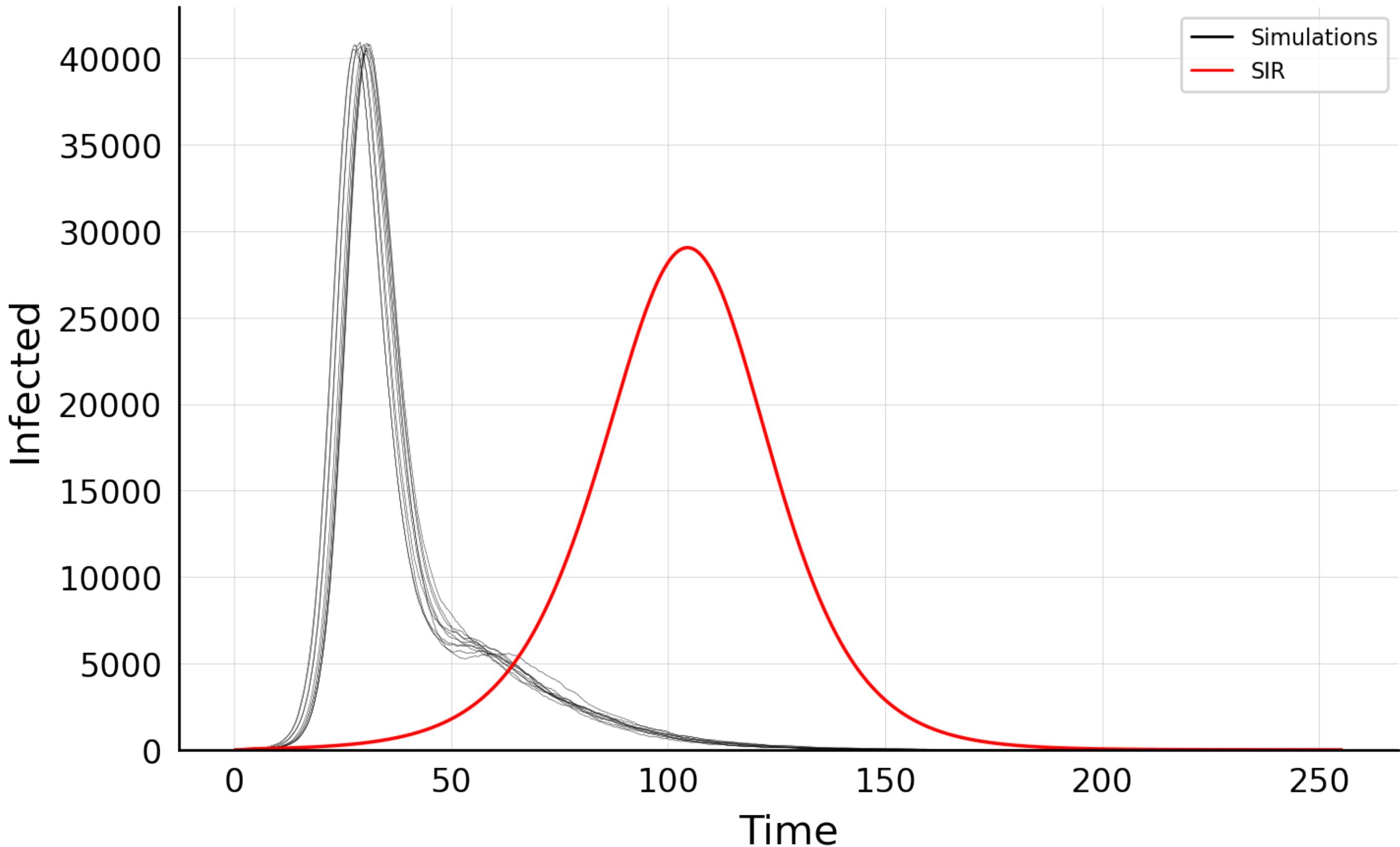
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.25$ ,  $\rho = 100.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



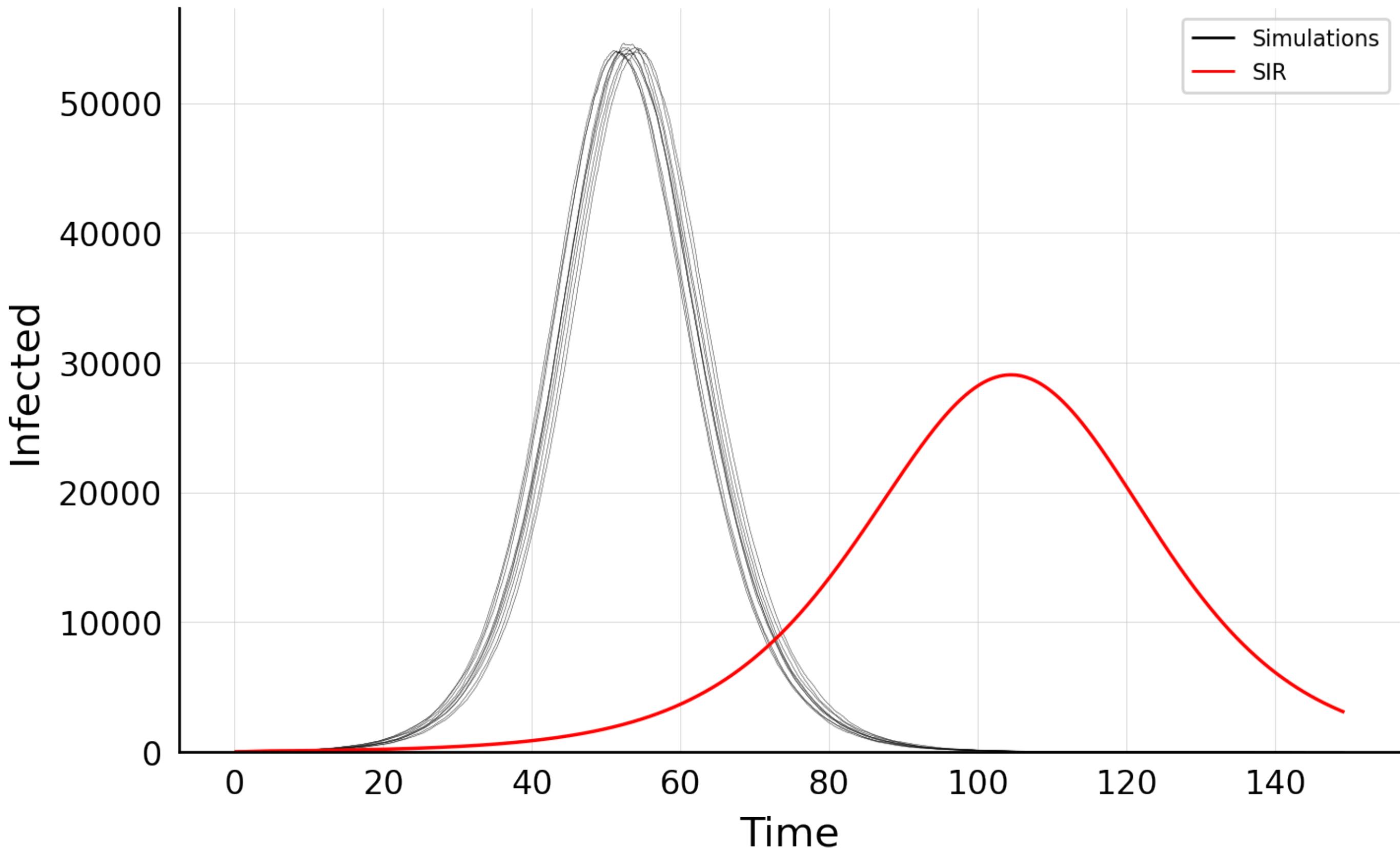
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.5$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ ,  $\#10$



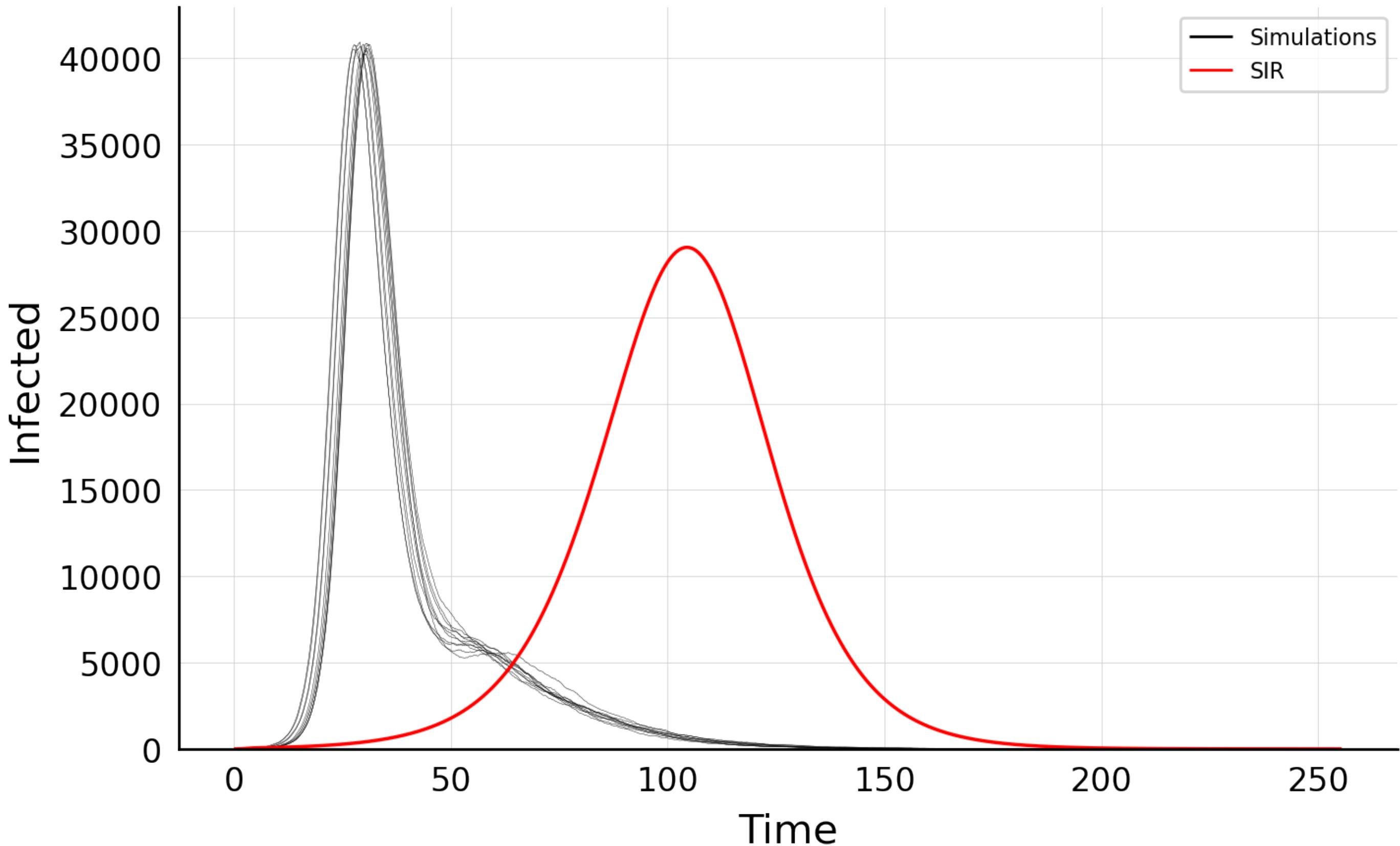
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.5$ ,  $\rho = 100.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



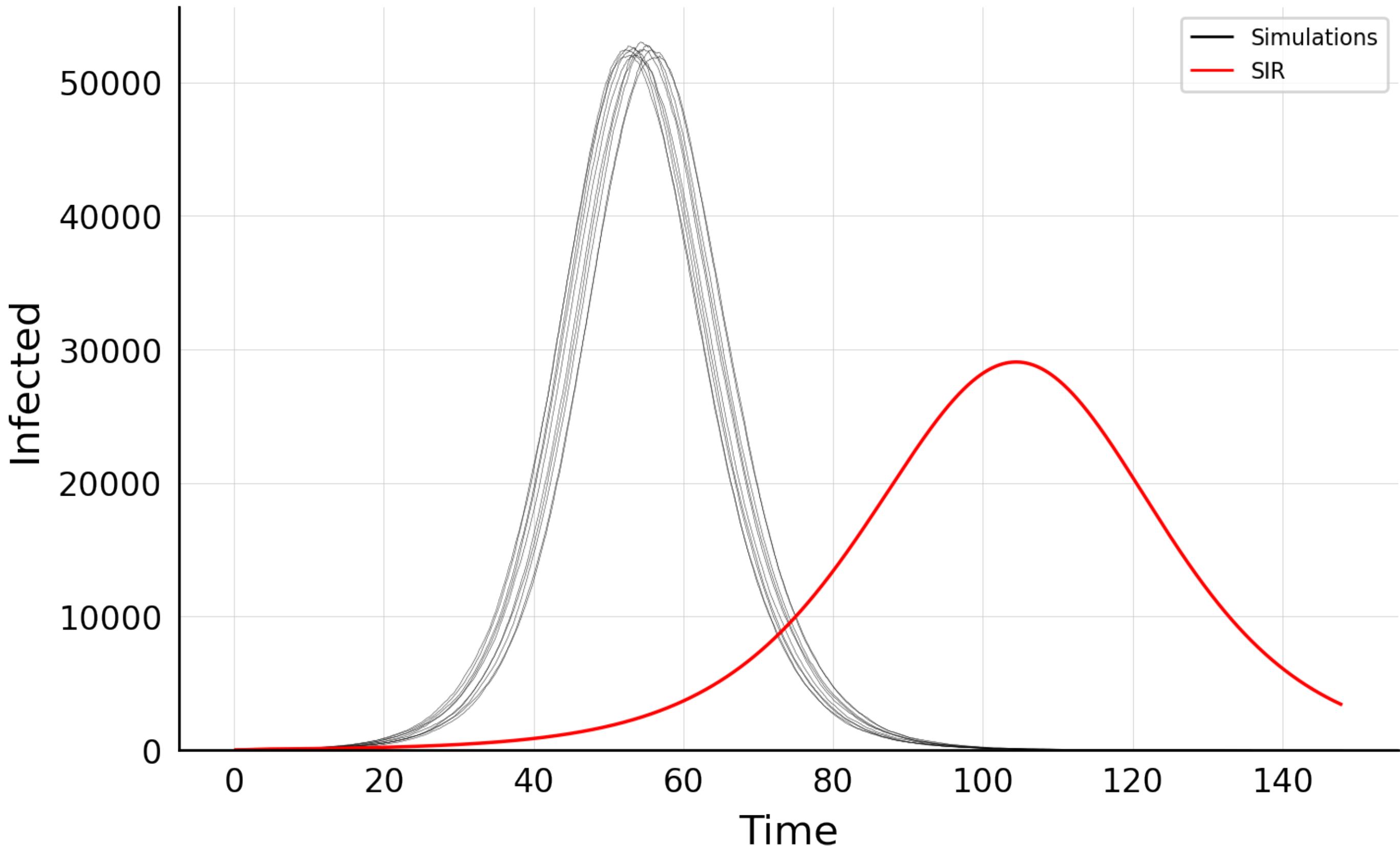
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.75$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



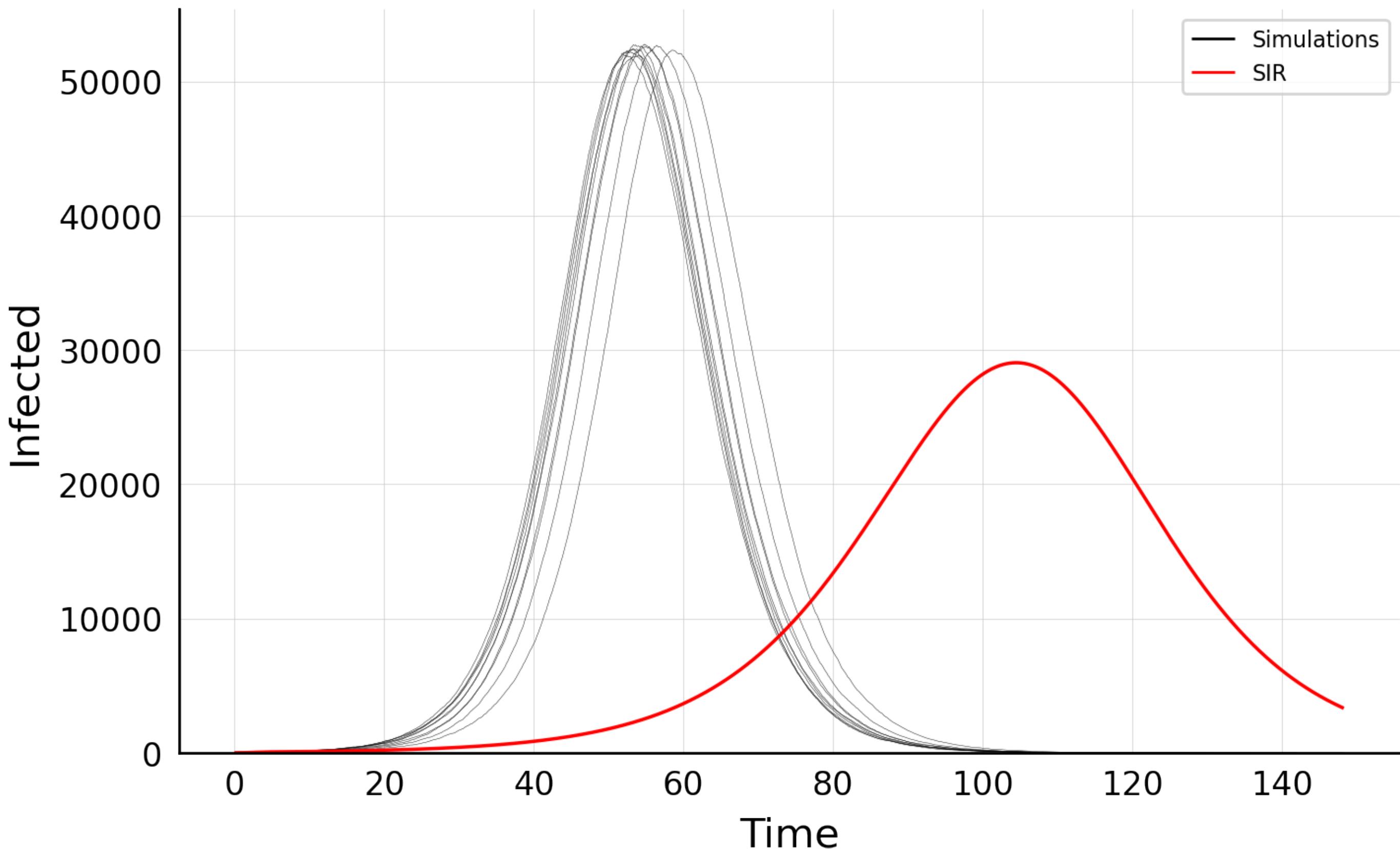
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.75$ ,  $\rho = 100.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



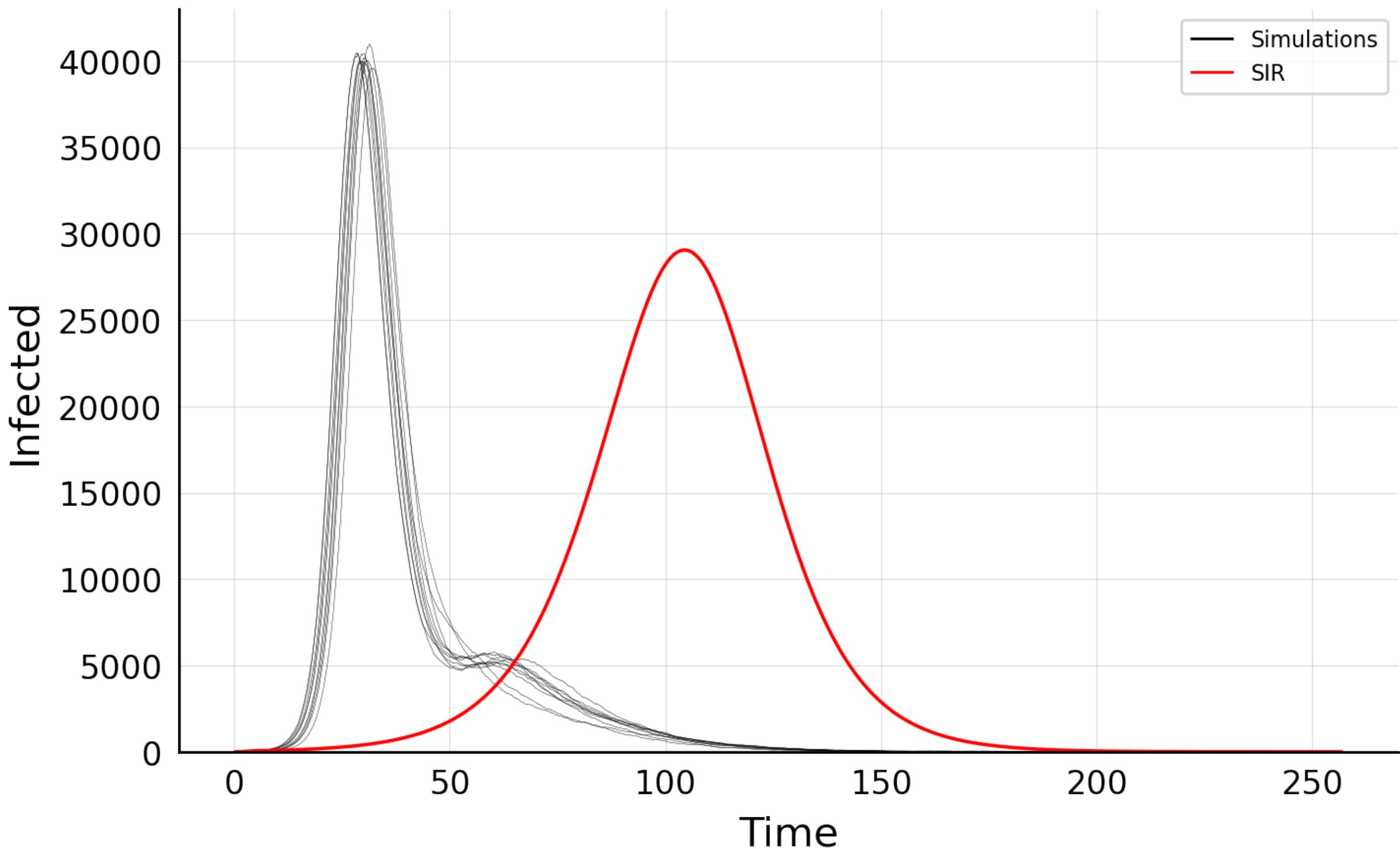
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 1.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 1$ ,  $\#10$



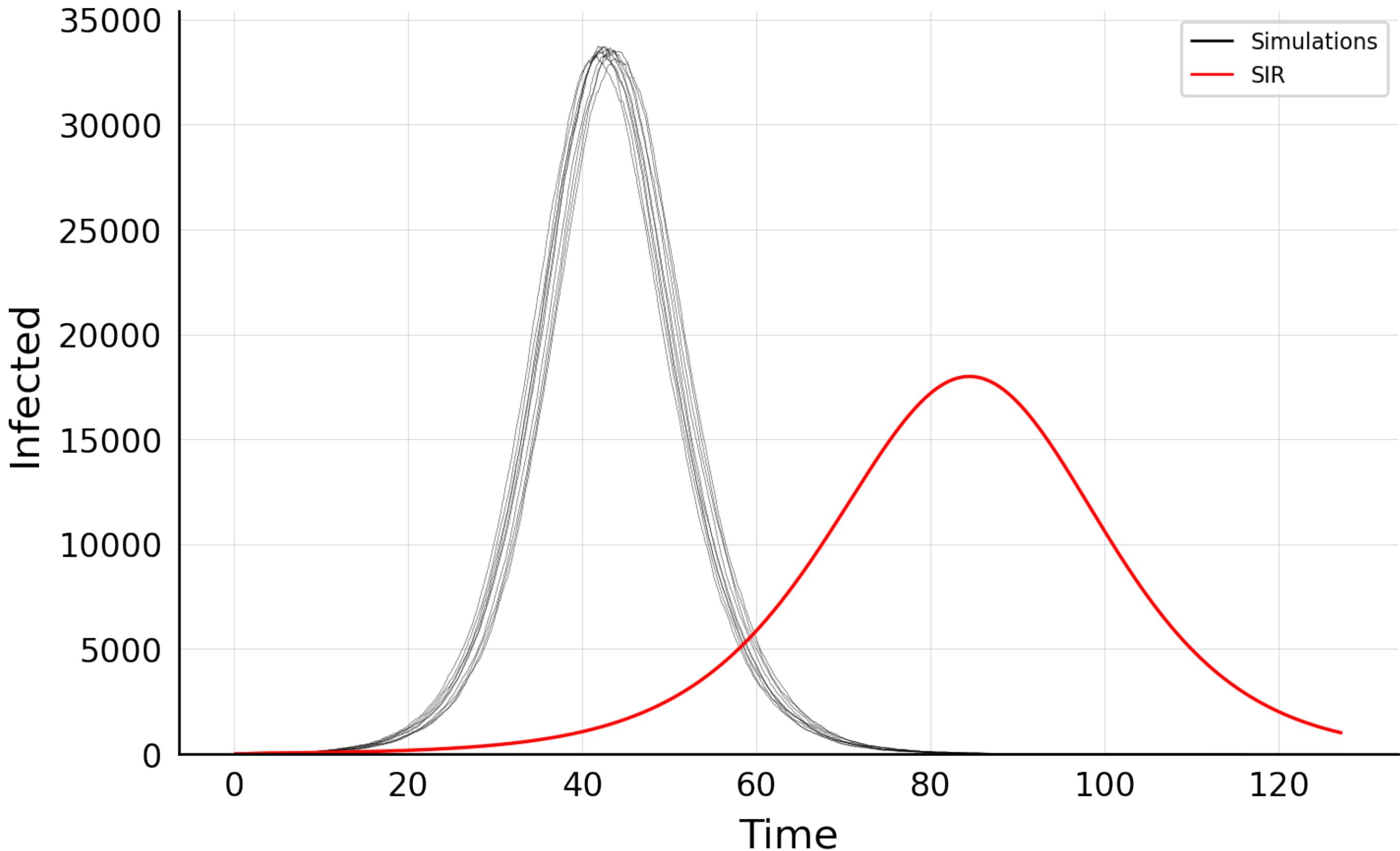
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 1.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ ,  $\#10$



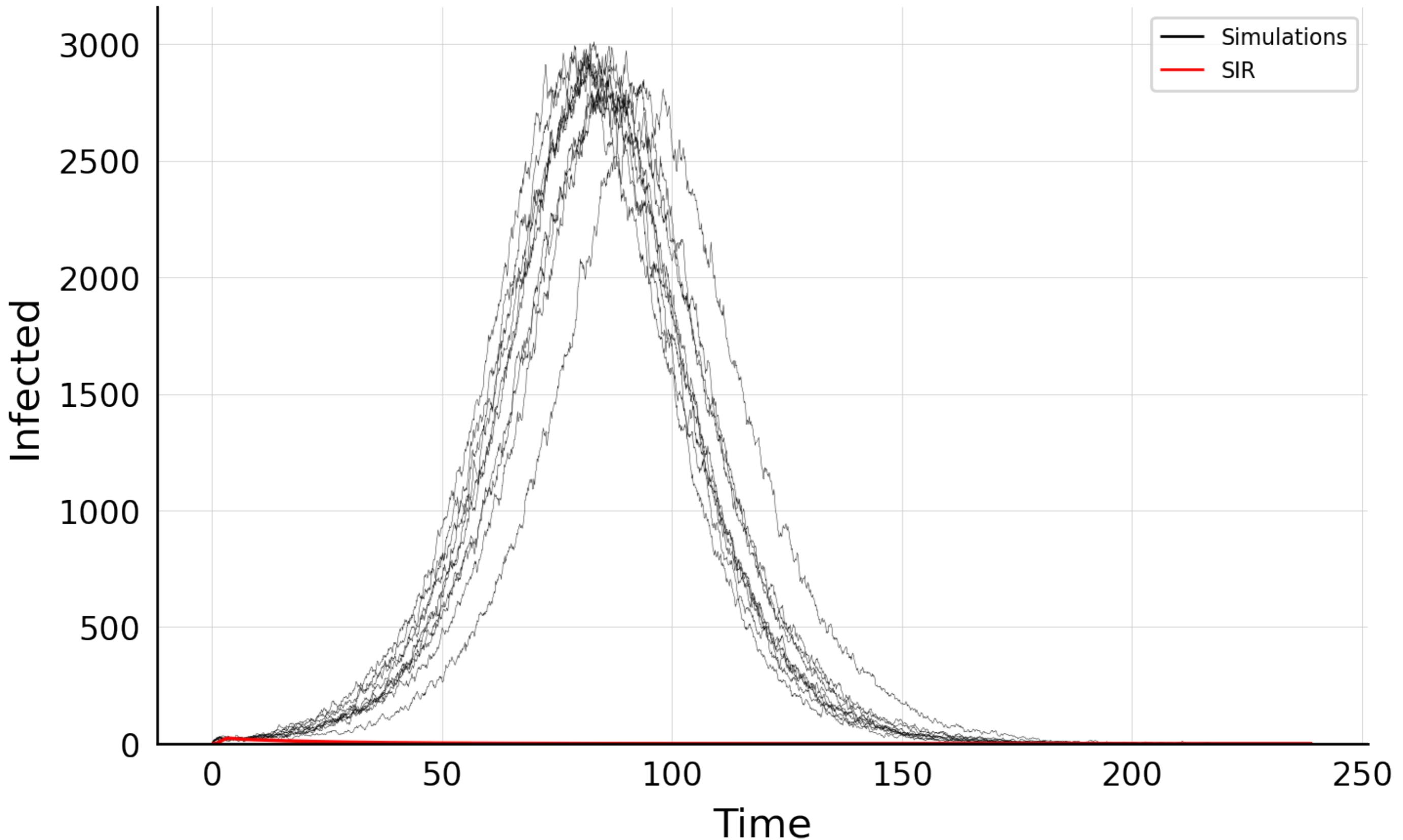
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 1.0$ ,  $\rho = 100.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



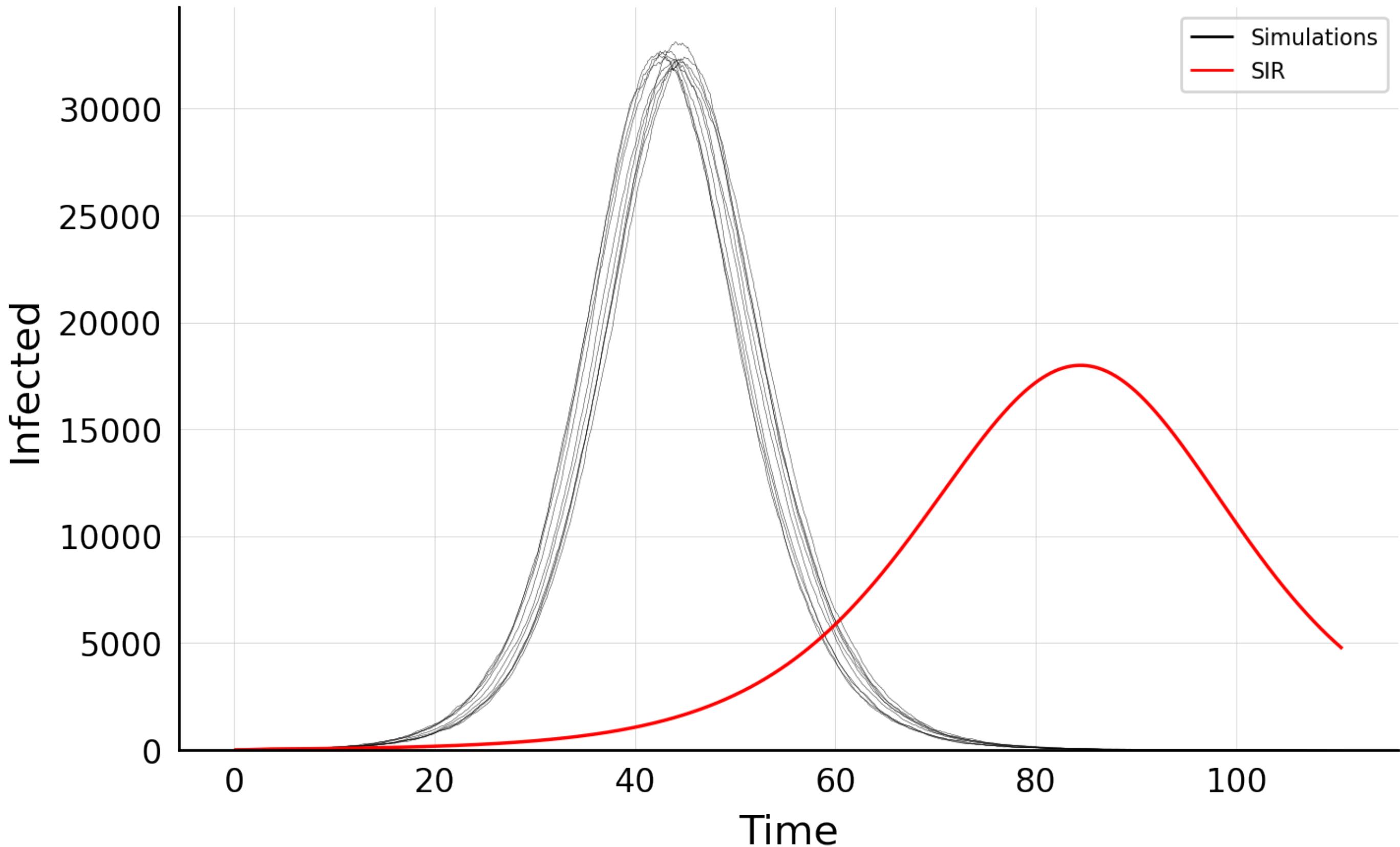
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.02$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 2.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ ,  $\#10$



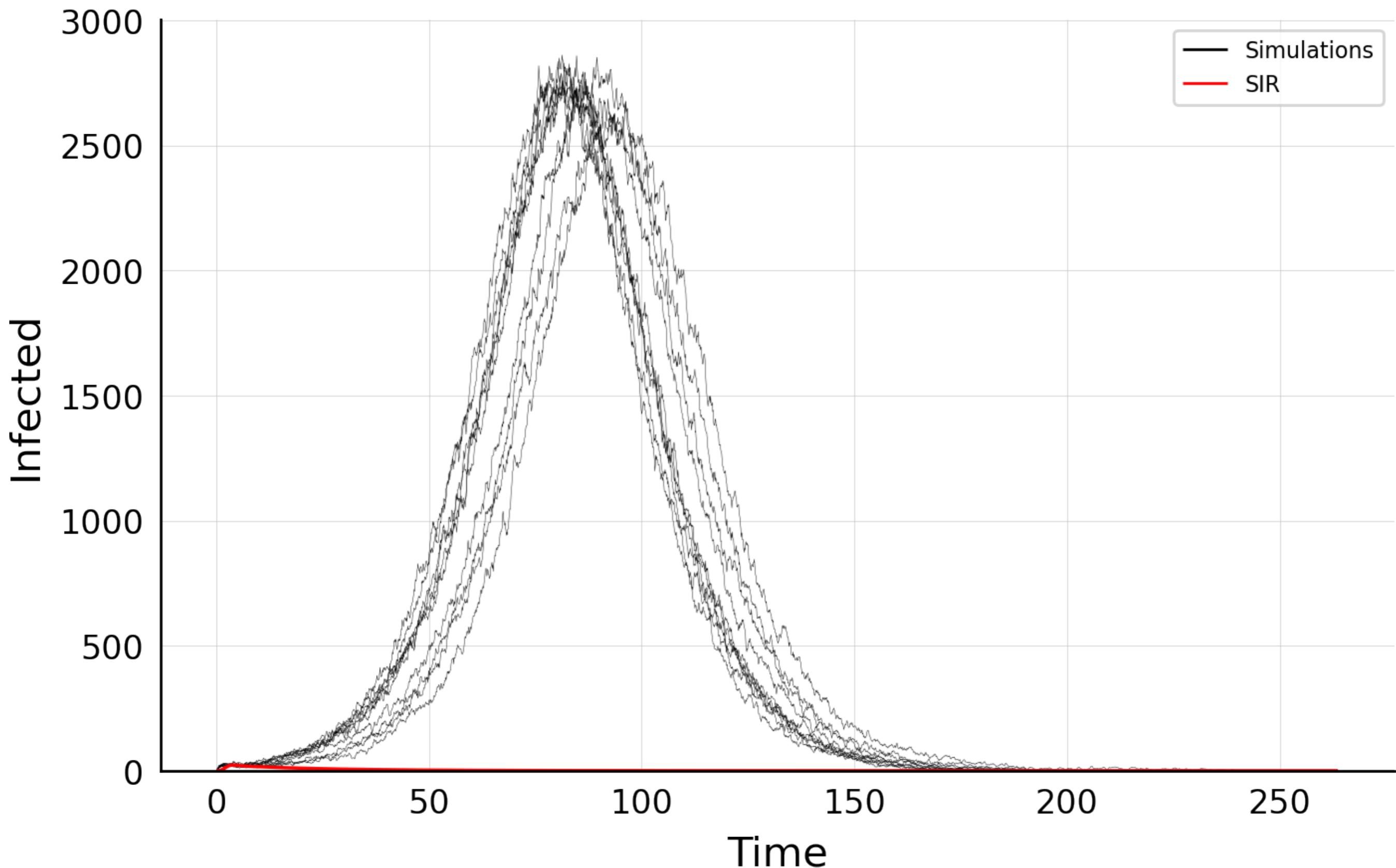
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.02$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 4.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ ,  $\#10$



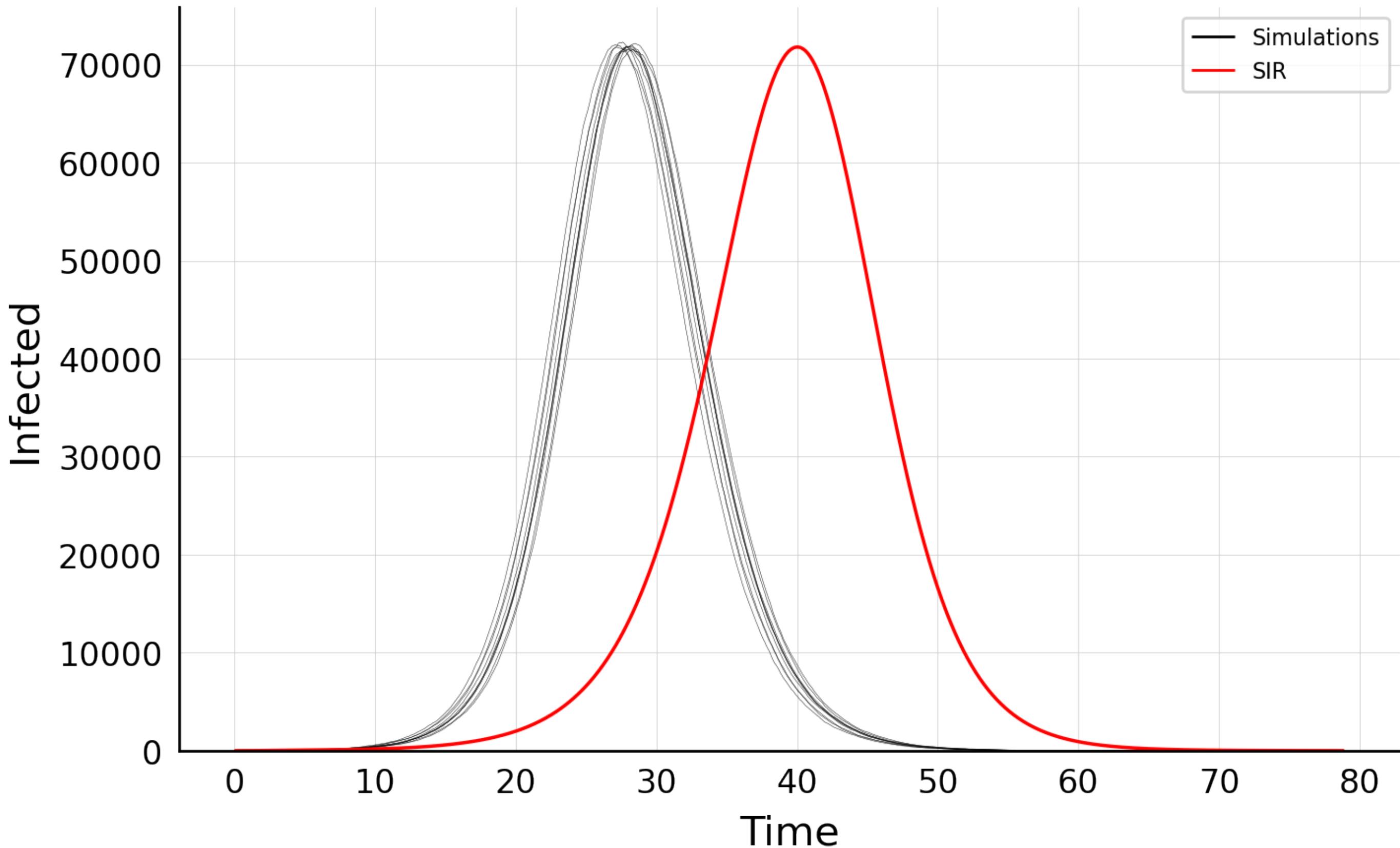
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.02$ ,  $\sigma_\beta = 1.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 2.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ ,  $\#10$



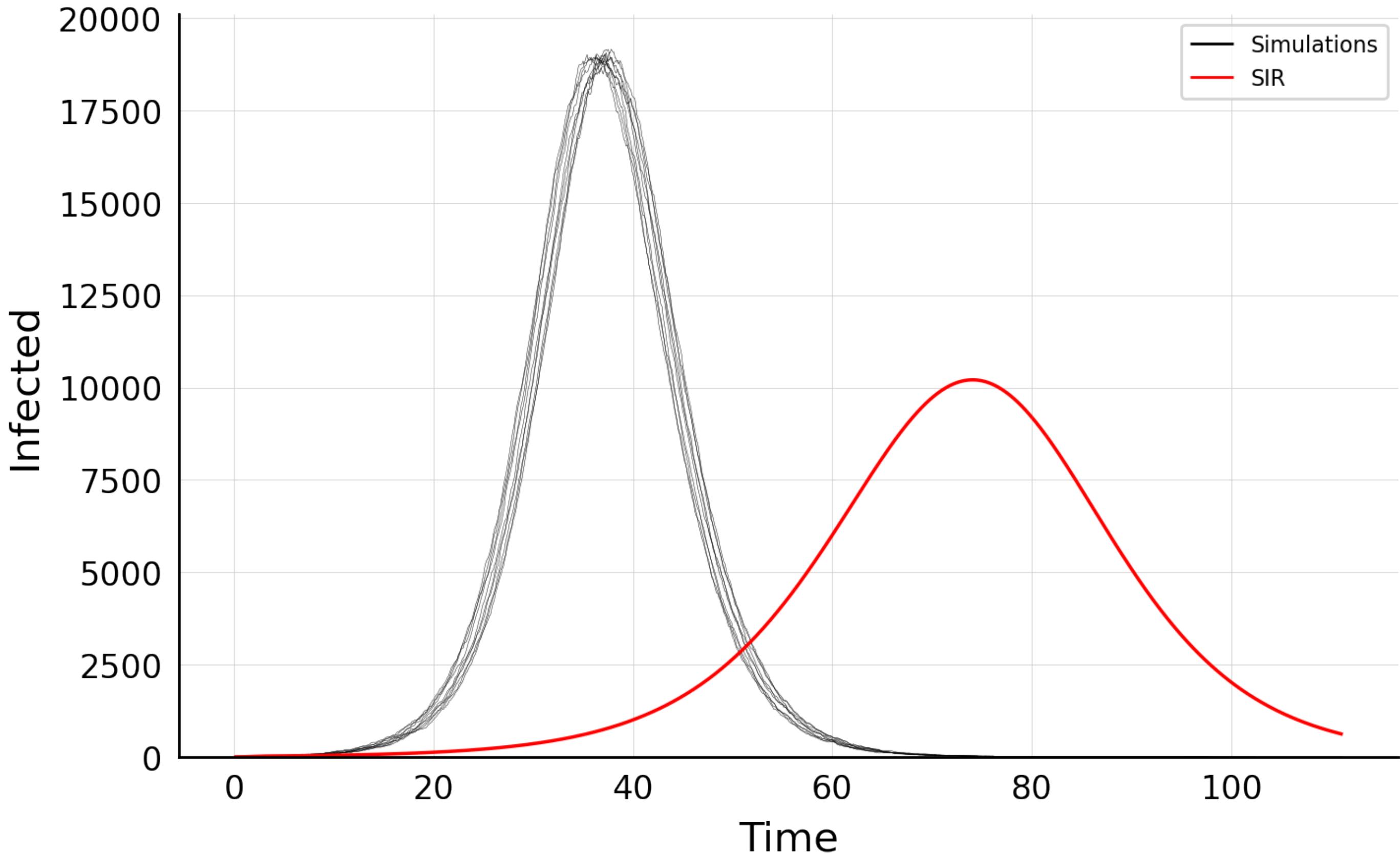
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.02$ ,  $\sigma_\beta = 1.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 4.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



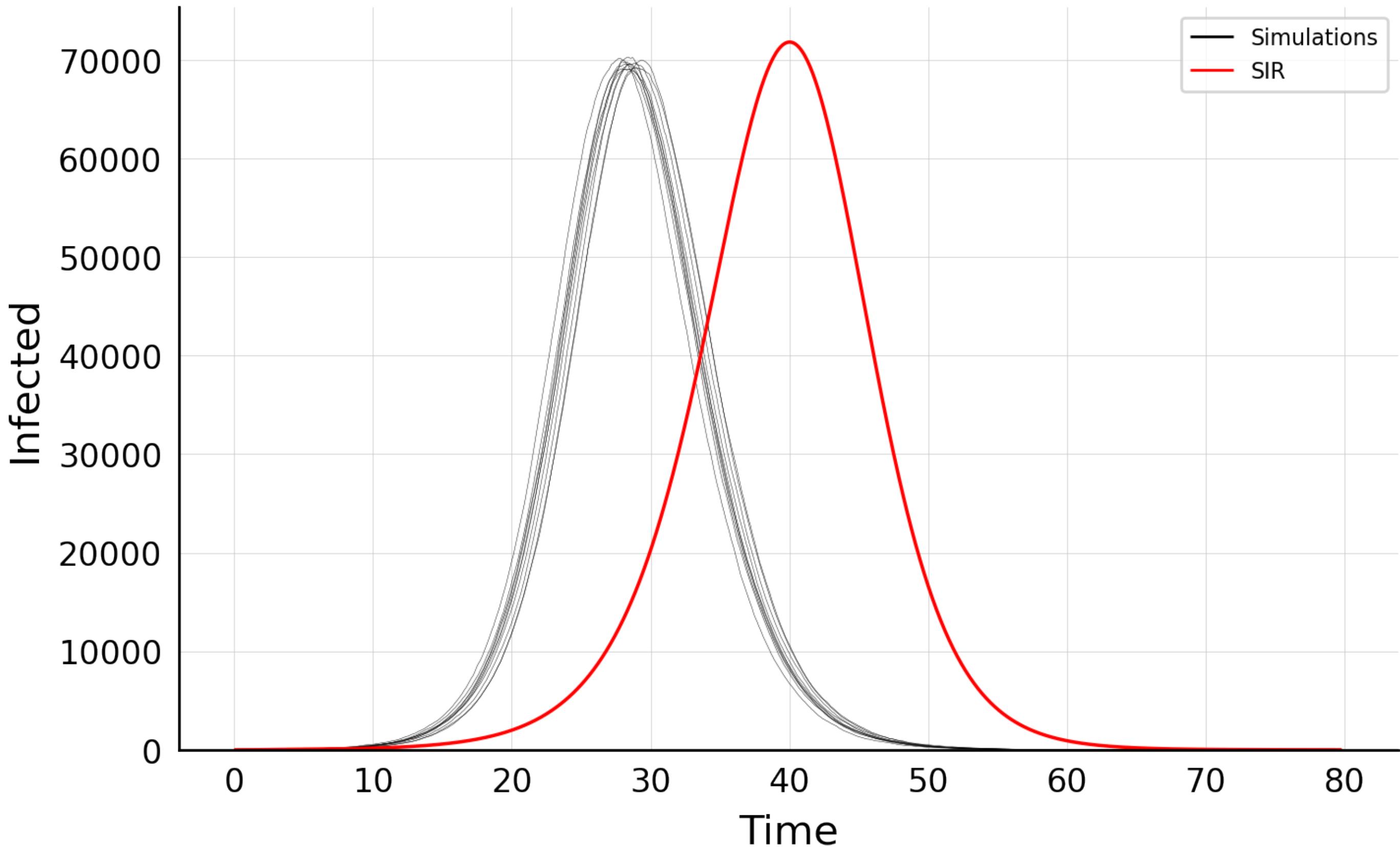
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.04$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 2.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ ,  $\#10$



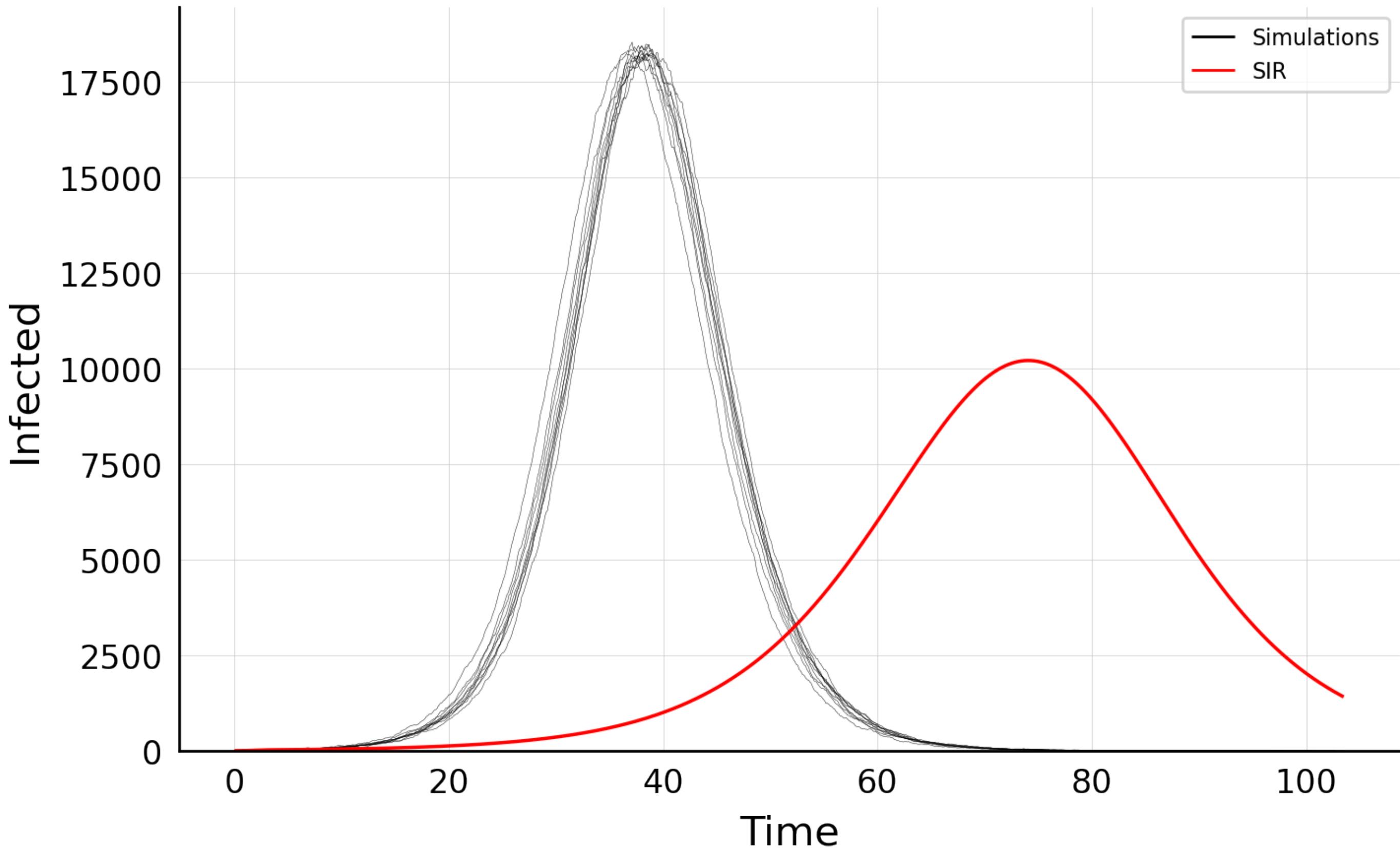
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.04$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 4.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ ,  $\#10$



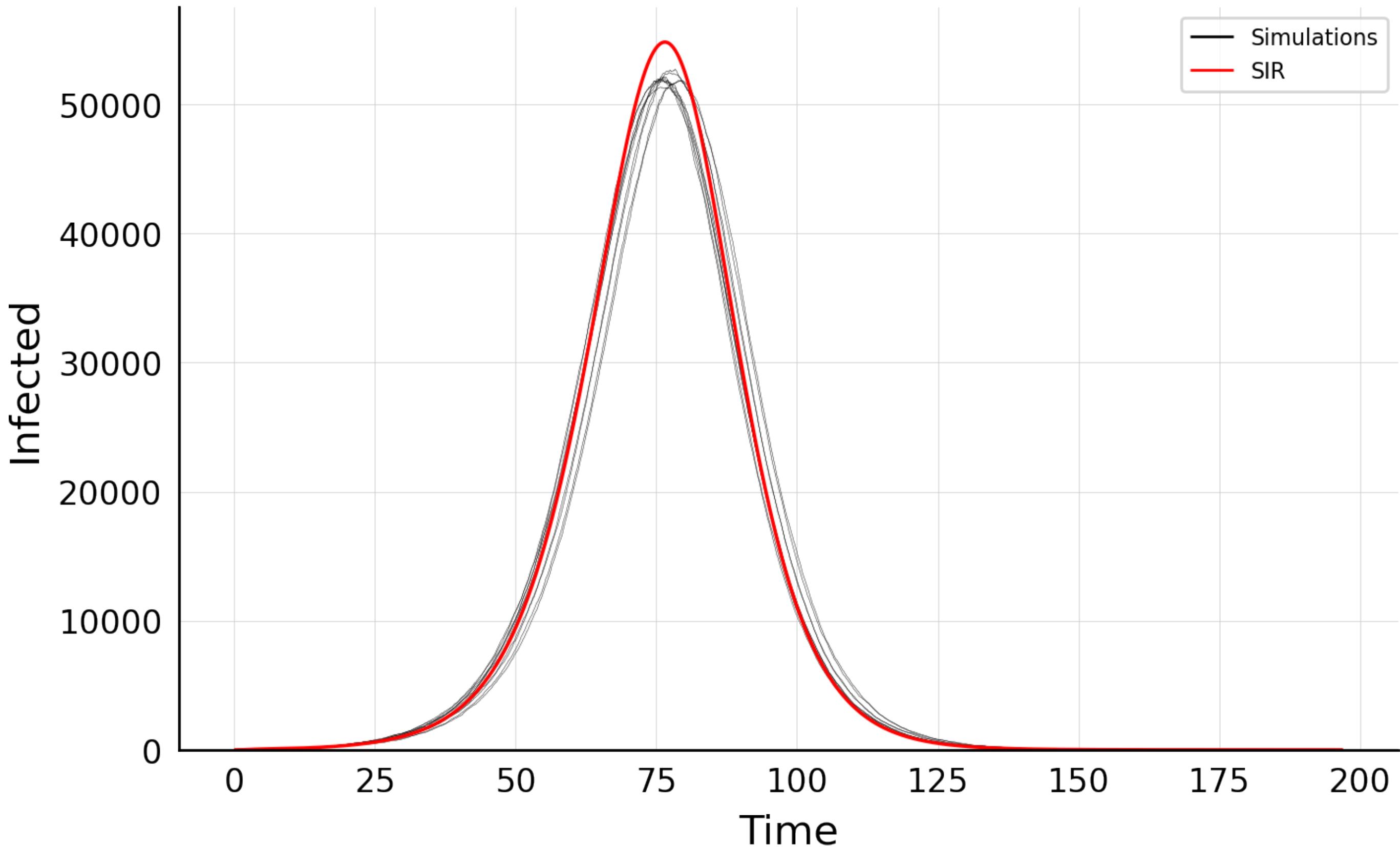
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.04$ ,  $\sigma_\beta = 1.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 2.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ ,  $\#10$



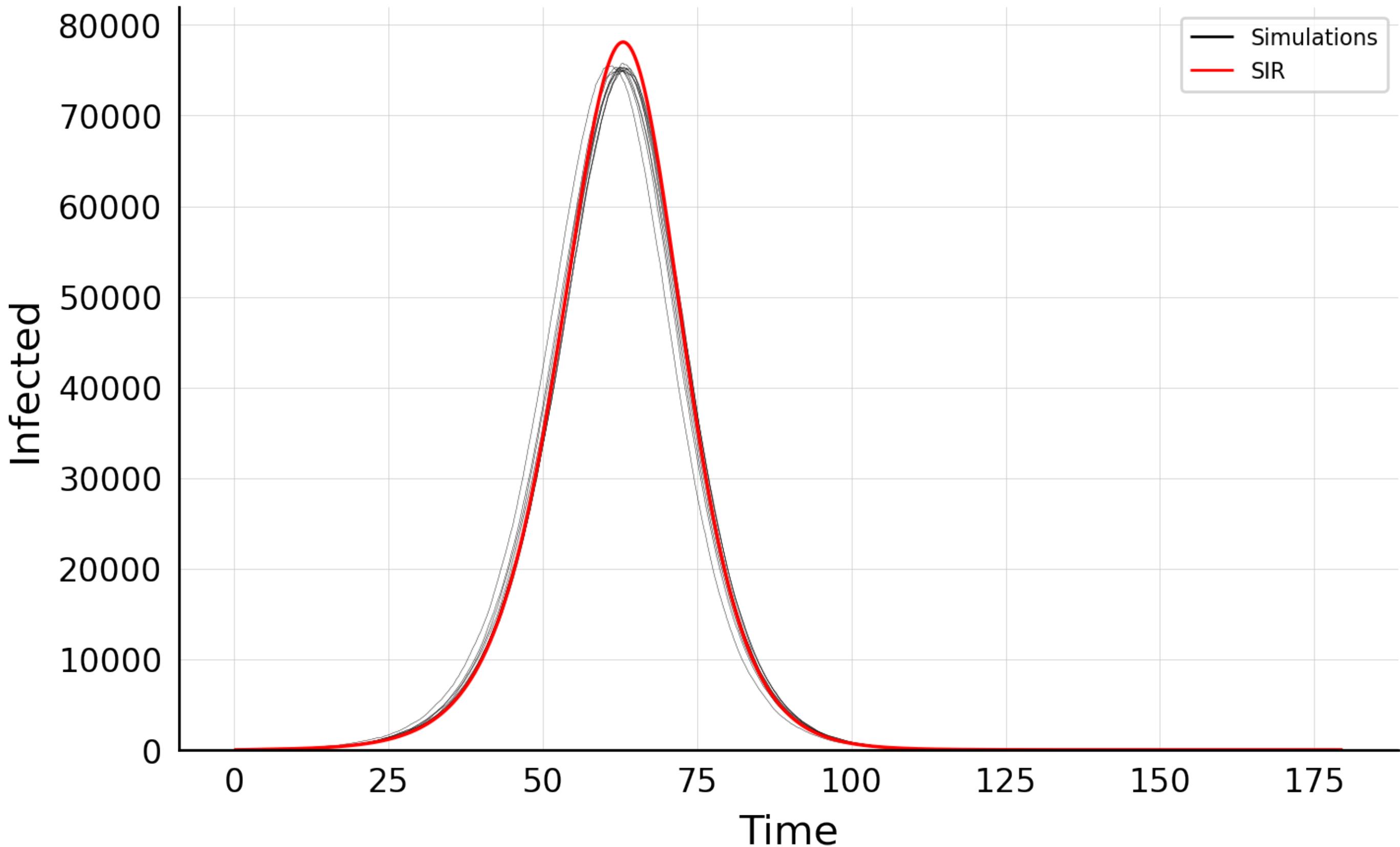
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.04$ ,  $\sigma_\beta = 1.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 4.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



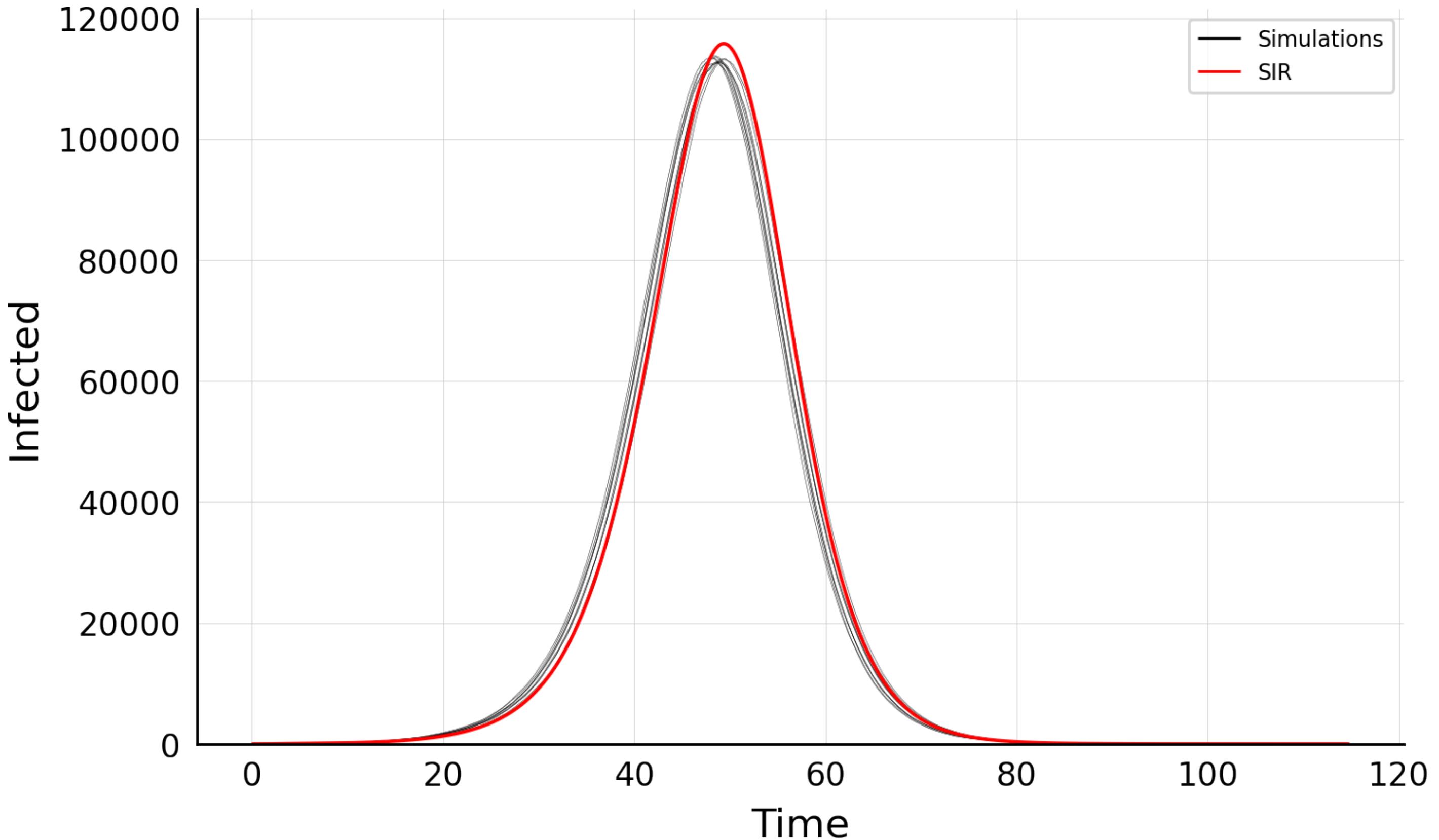
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 50.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ ,  $\#10$



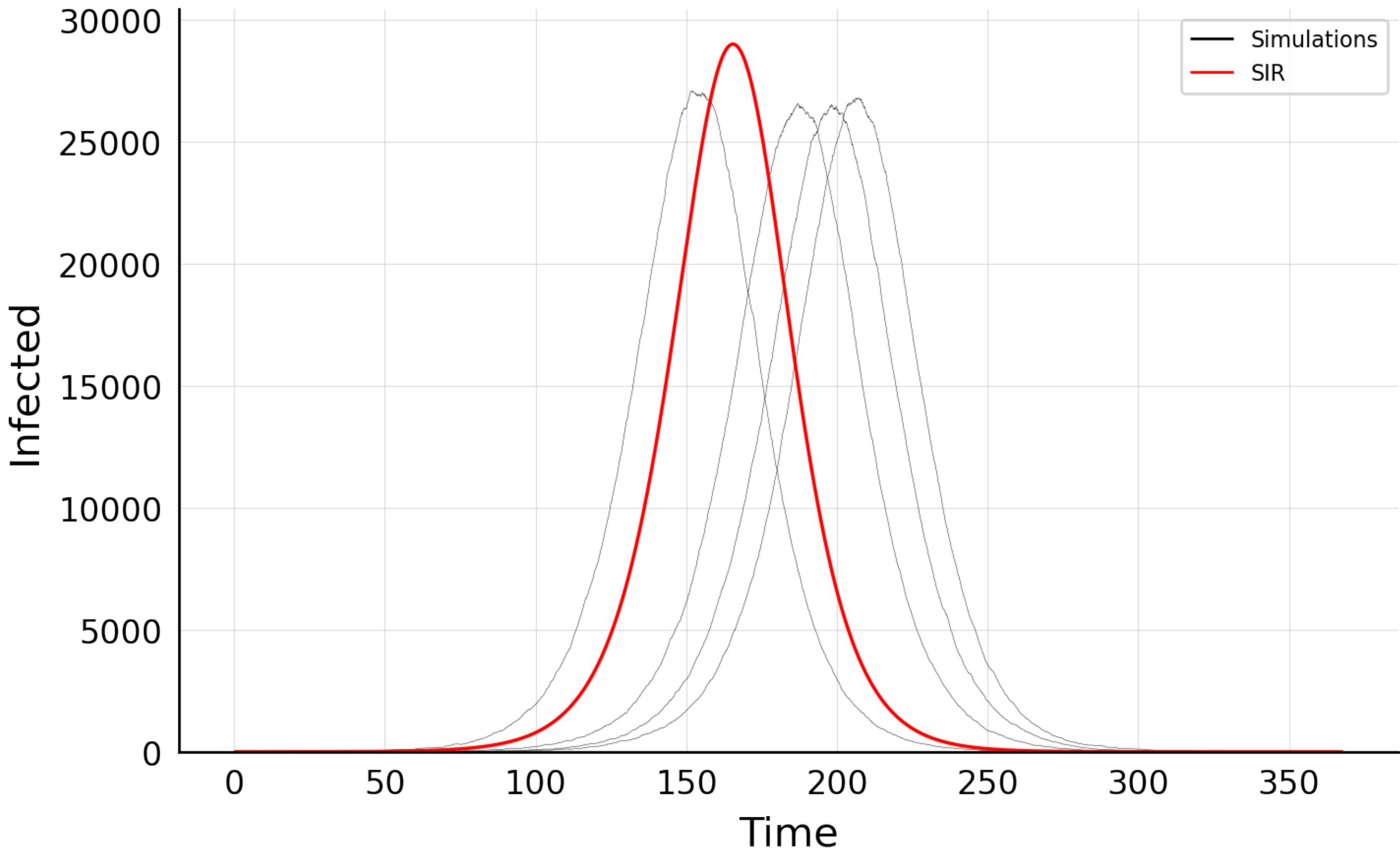
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 60.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



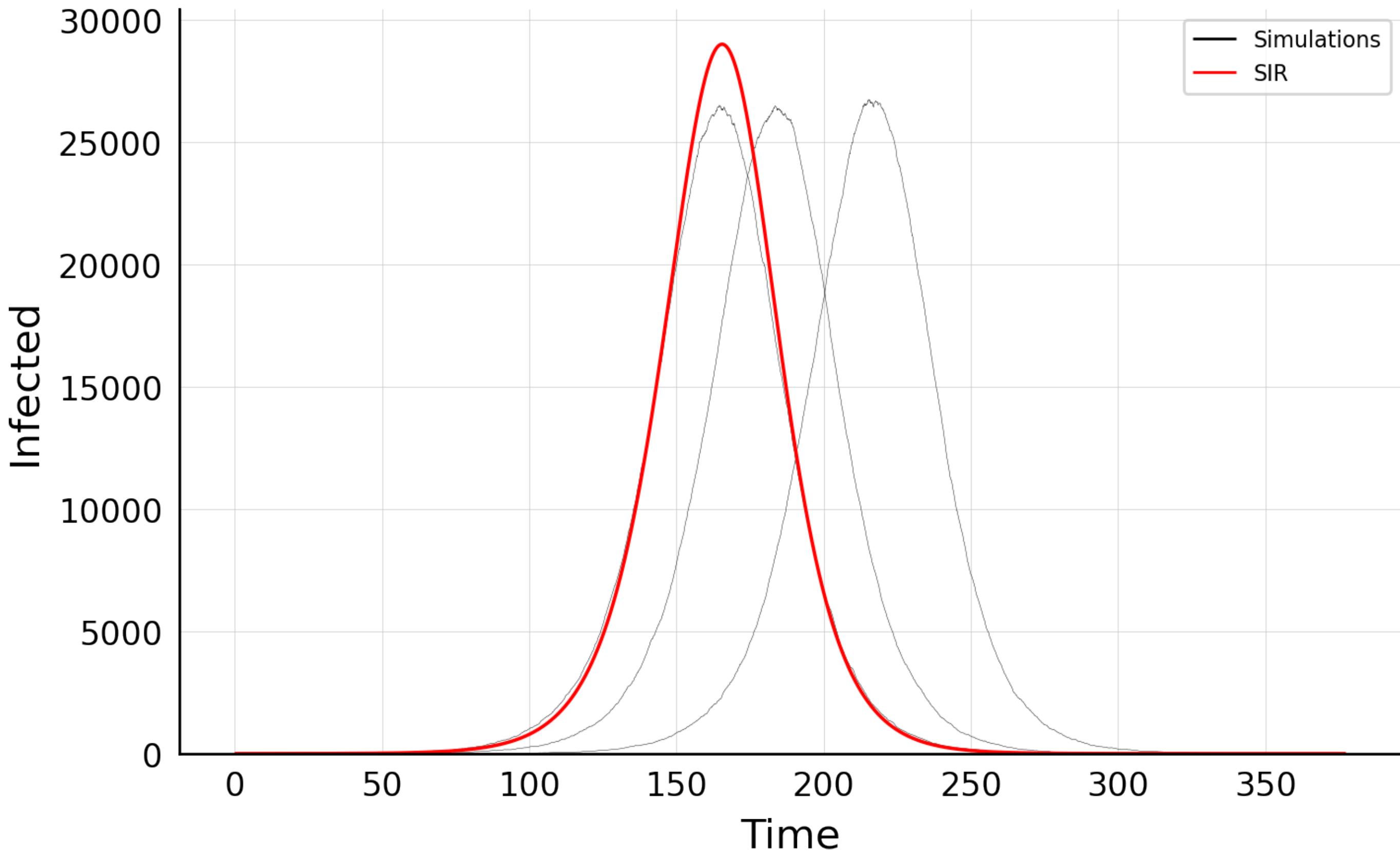
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 80.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ ,  $\#10$



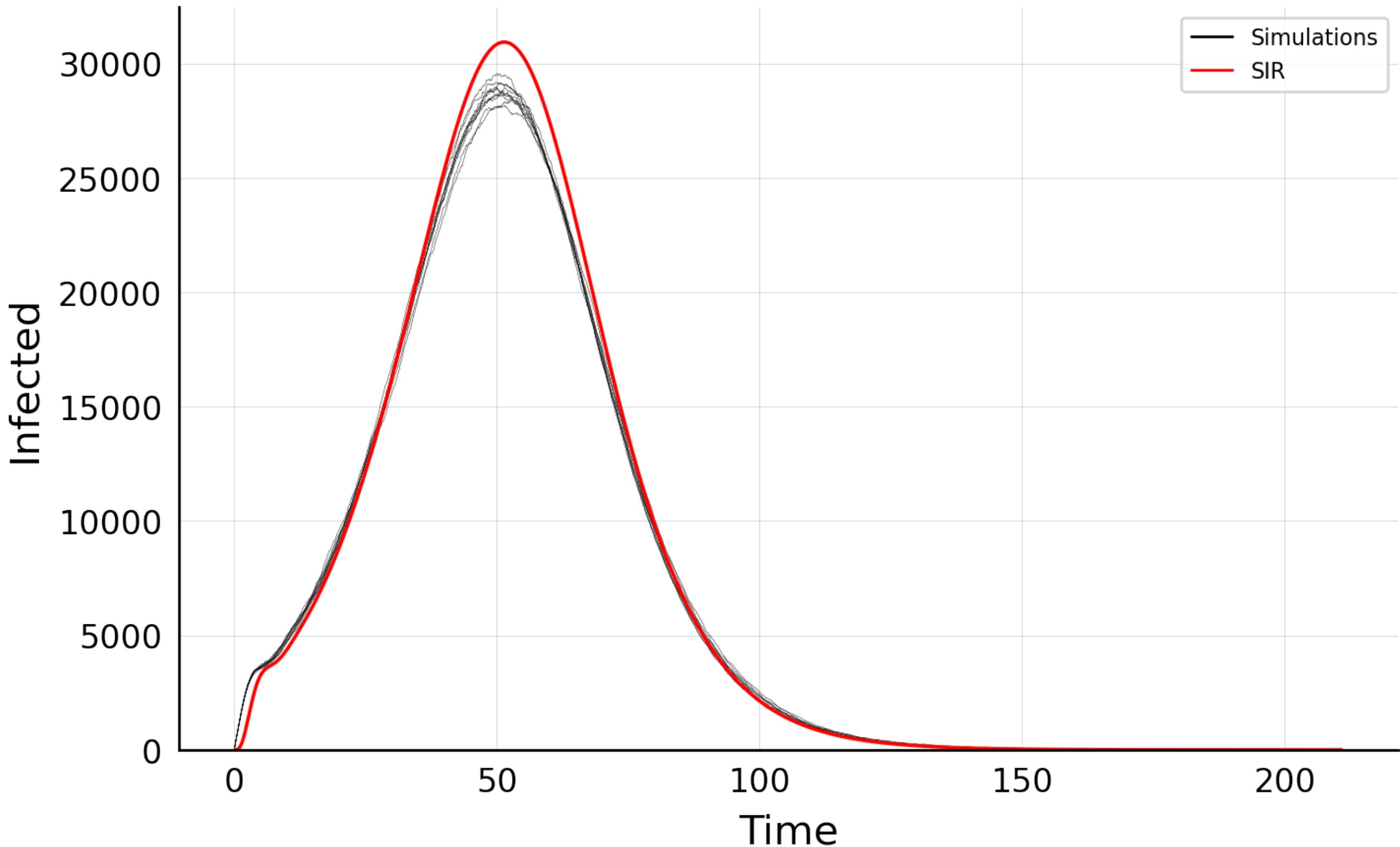
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 1$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 1$ ,  $\#10$



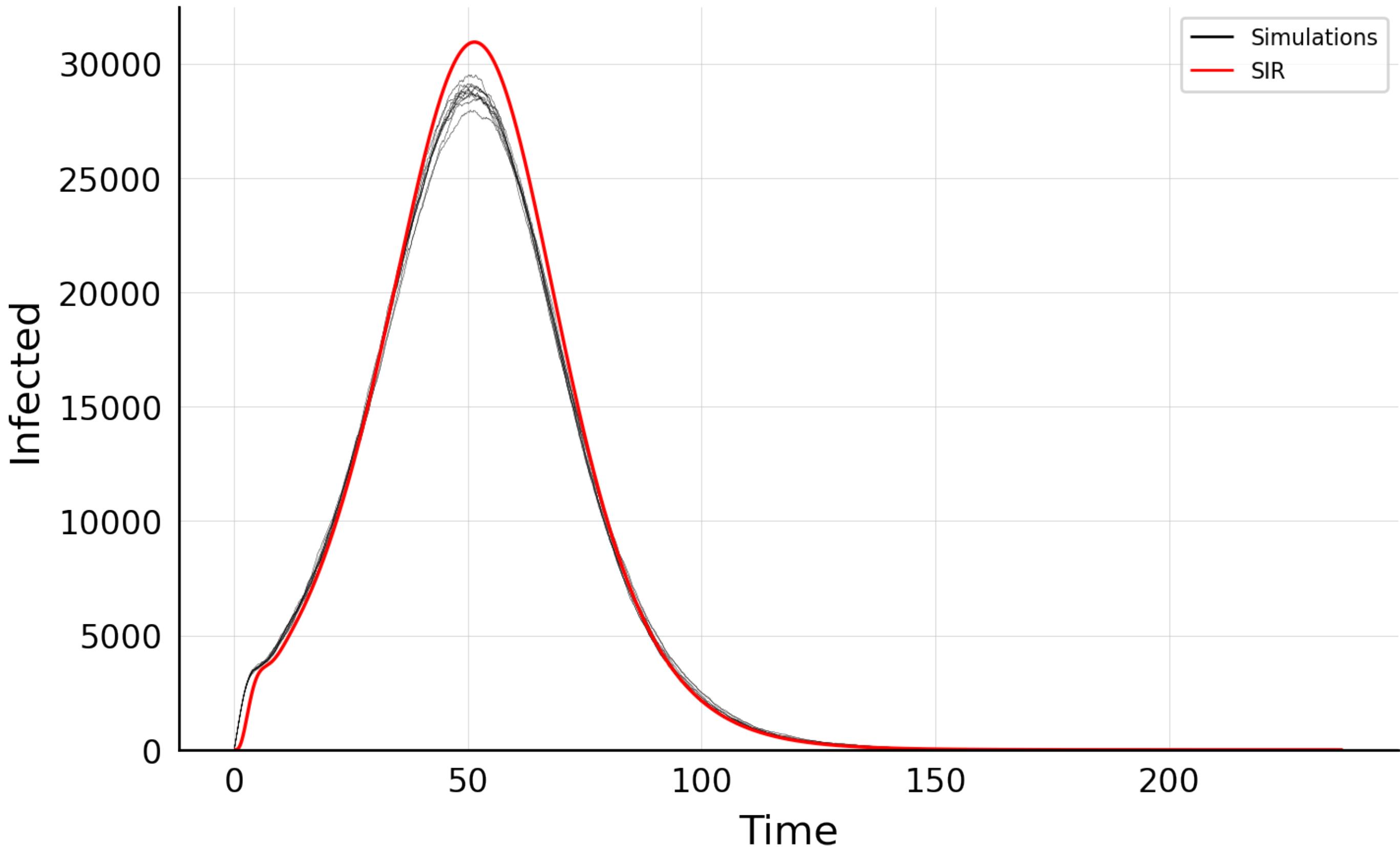
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 1$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



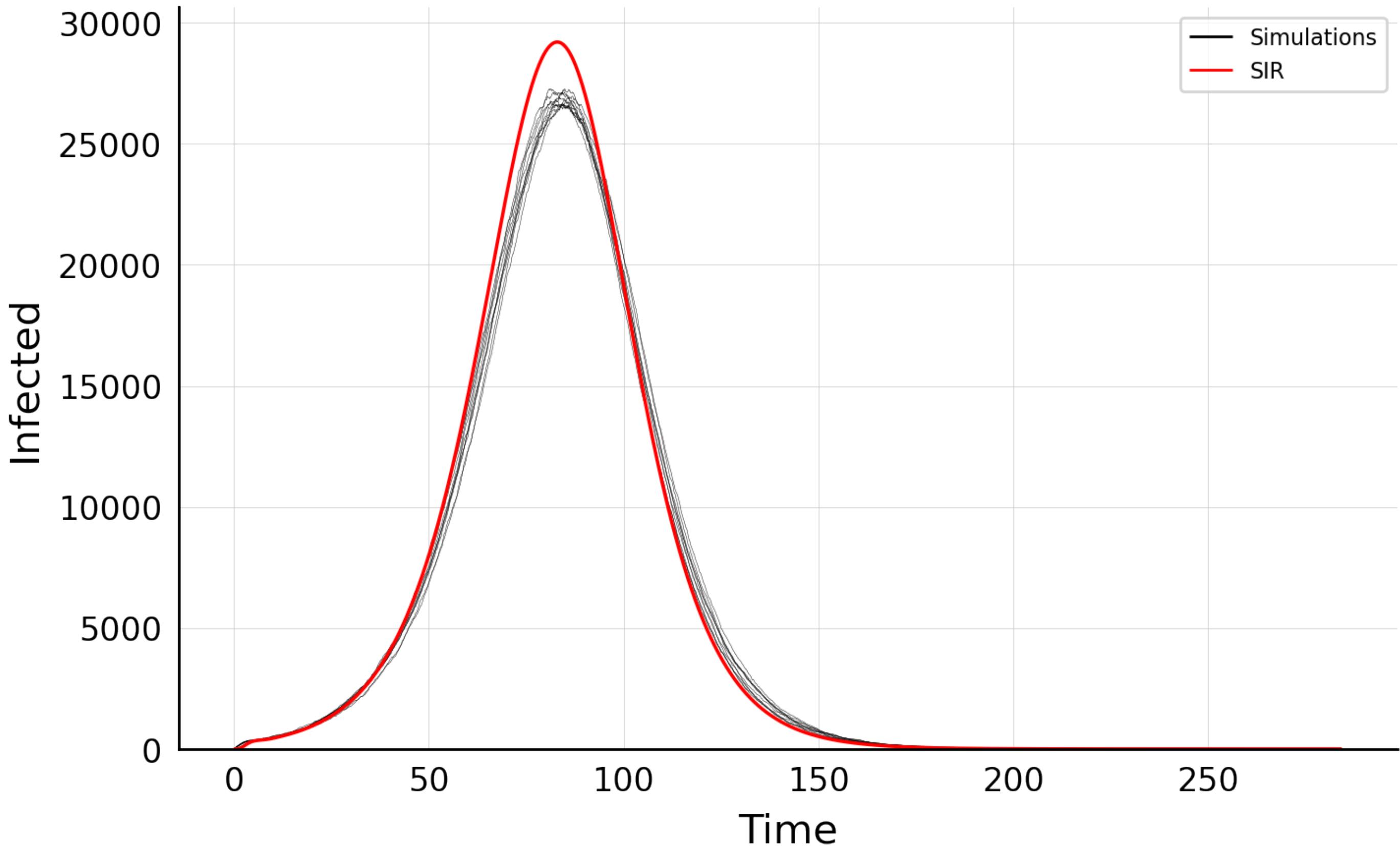
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 5K$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 1$ ,  $\#10$



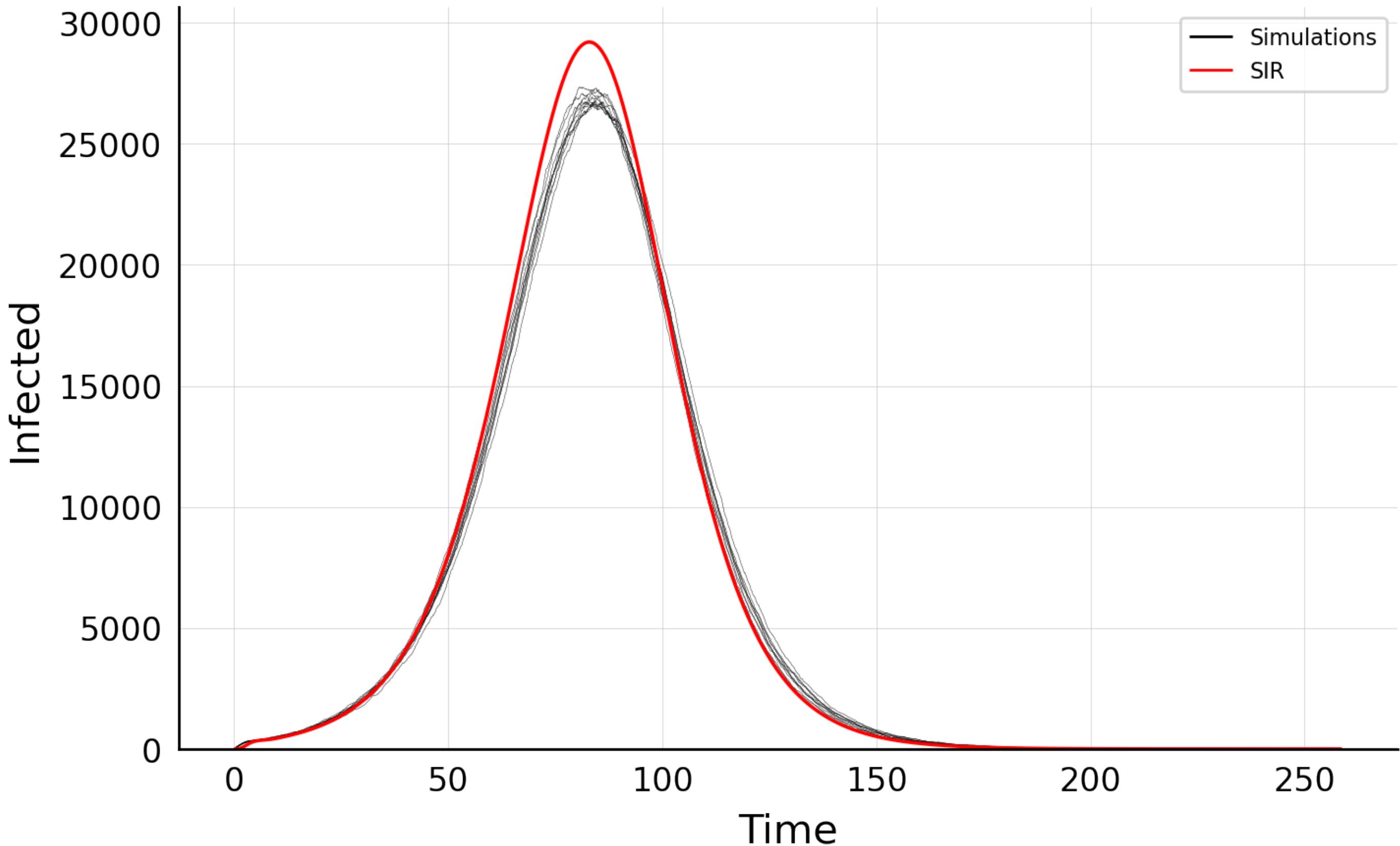
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 5K$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ ,  $\#10$



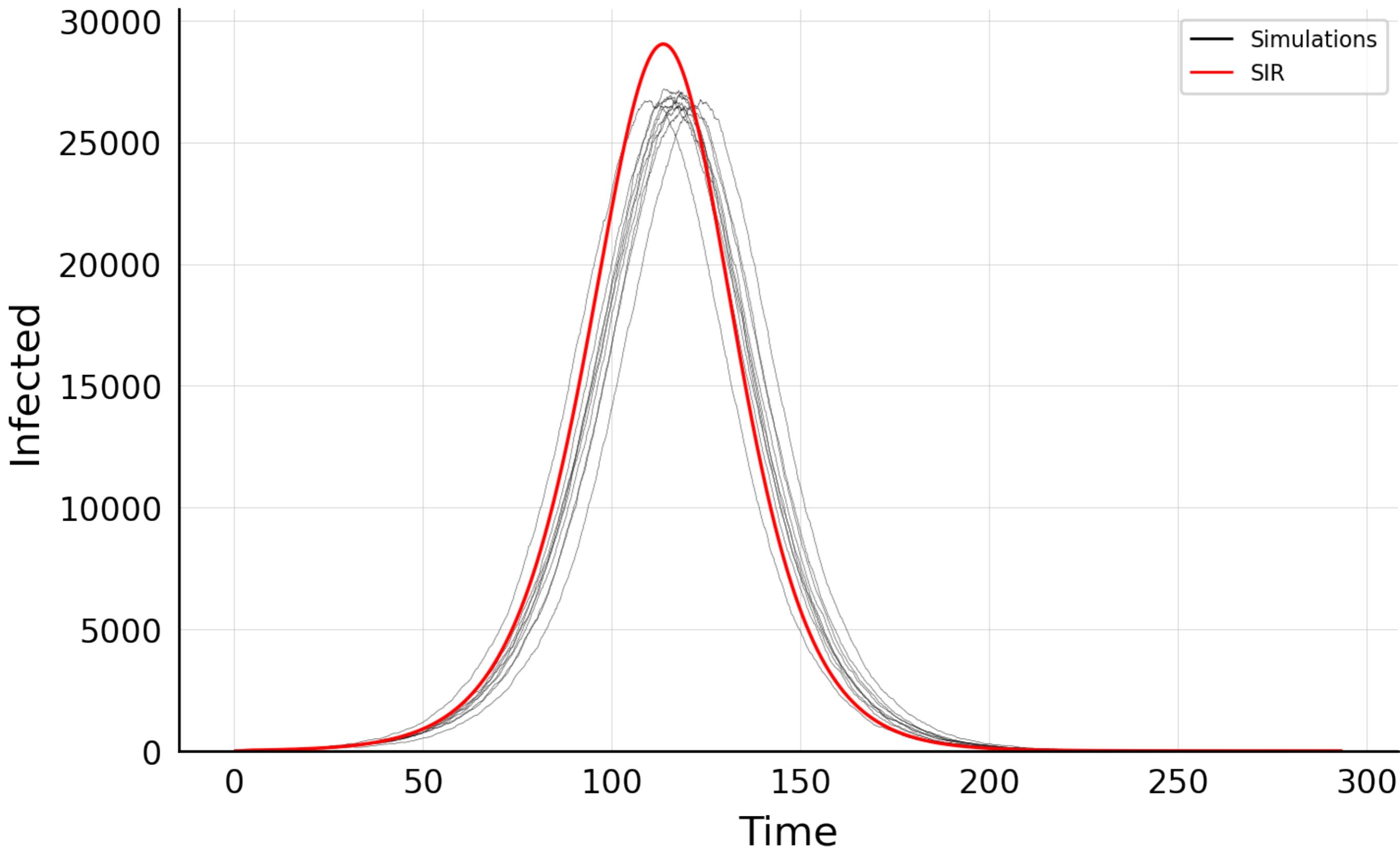
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 500$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 1$ ,  $\#10$



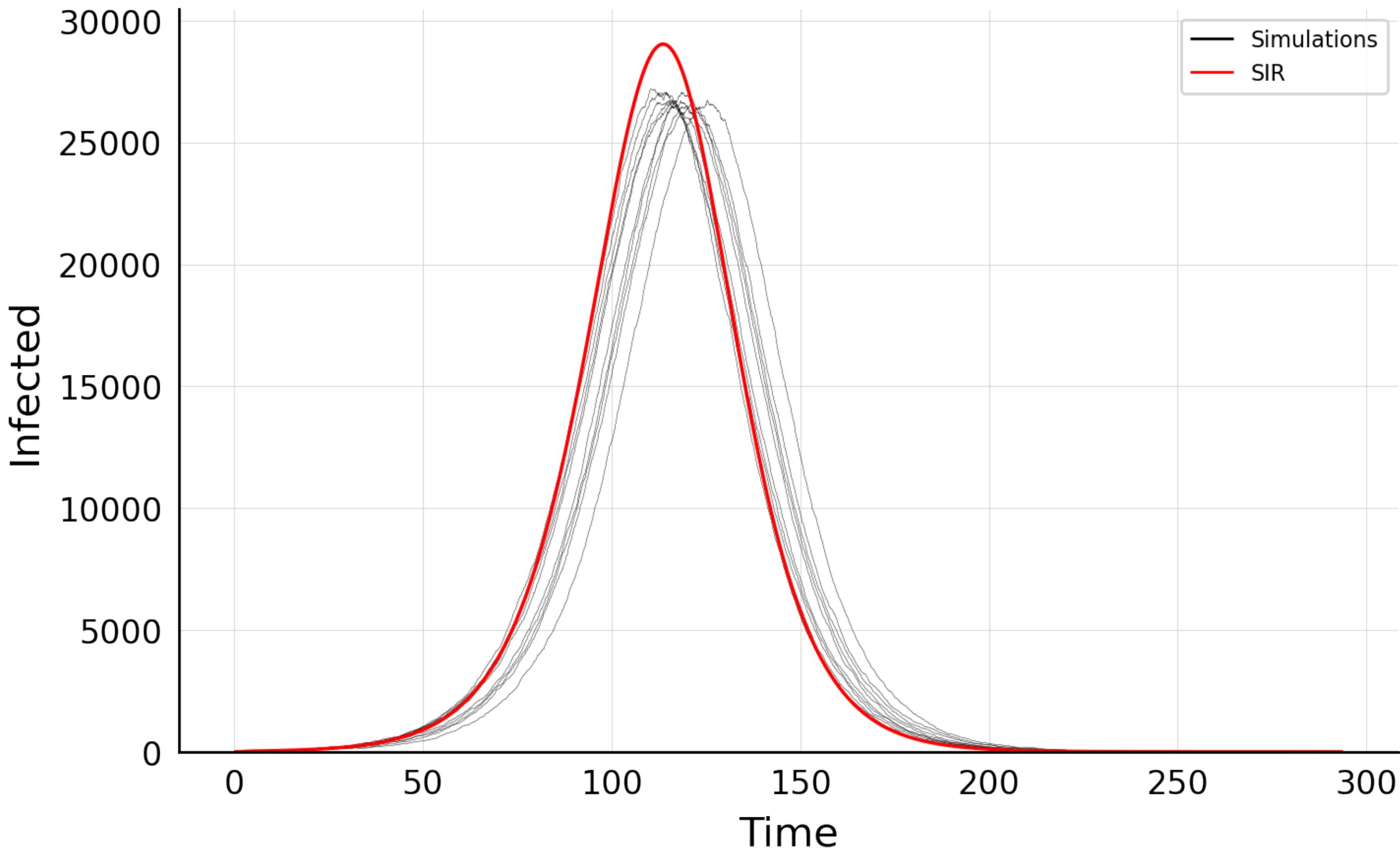
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 500$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ ,  $\#10$



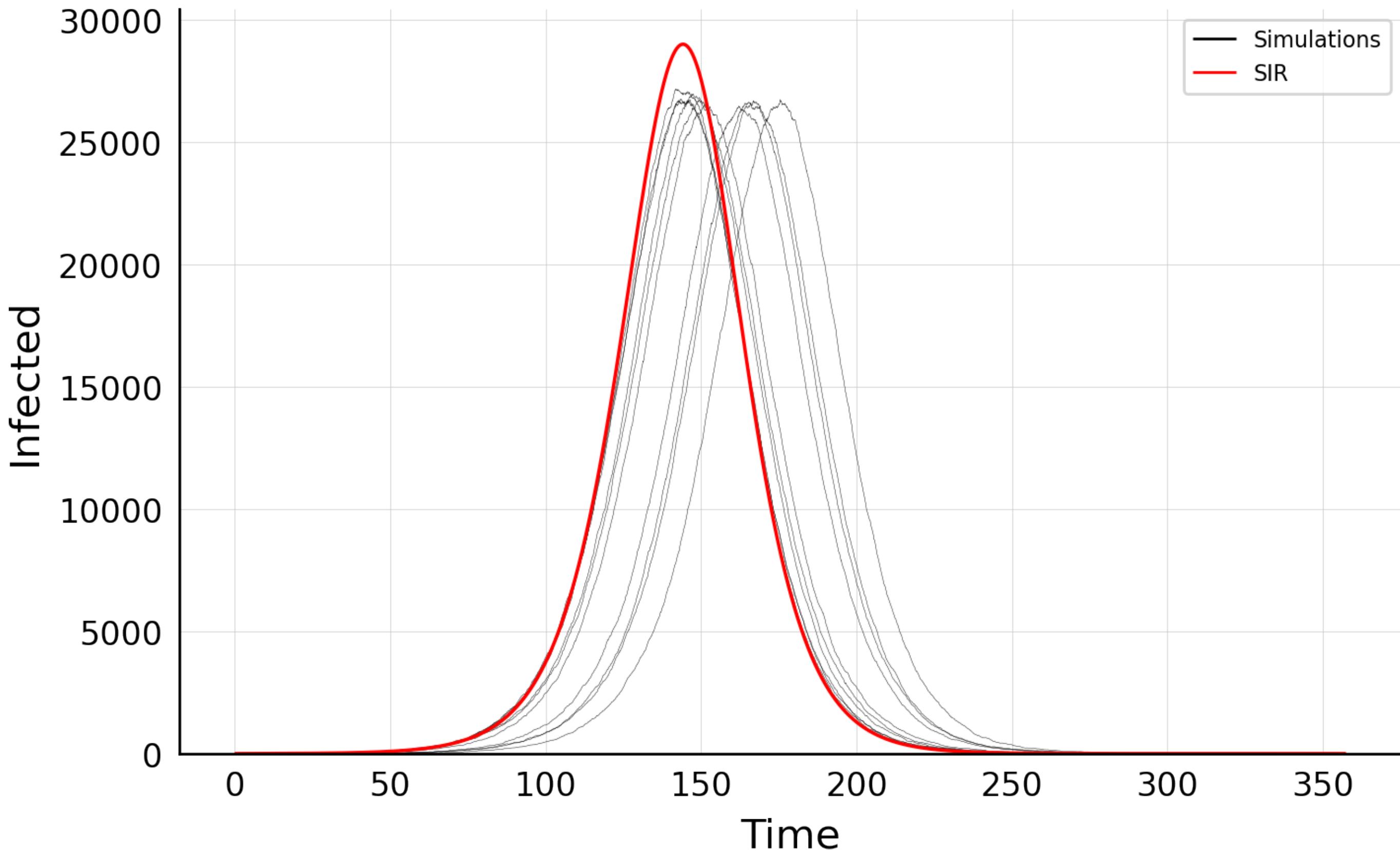
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 50$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 1$ ,  $\#10$



$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 50$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 5$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 1$ ,  $\#10$



$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 5$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10

