

$$\text{inf_1_out_lb}([I_lb * S_1_lb * \text{beta_1_lb}]) = [0.000314 * I_lb * S_1_lb]$$

$$\text{inf_2_out_lb}([I_lb * S_2_lb * \text{beta_2_lb}]) = [0.000316 * I_lb * S_2_lb]$$

petrinet

$$[0.000316 * I_lb * S_2_ub]$$

0.0

0.0

I_lb

$$\text{rec_out_lb}([I_lb * \text{gamma_lb}]) = [0.1 * I_lb]$$