

km1	13	KI	3.5e-06	<div>MI-Sim Report</div> <div>24-Jan-2017 14:01:08</div> <div>Equations</div> <div> $\frac{dS_1}{dt} = D(S_{1,in} - S_1) - f_1X_1$ $\frac{dX_1}{dt} = -DX_1 + Y_1f_1X_1 - k_{dec,1}X_1$ $\frac{dS_2}{dt} = -DS_2 + \gamma_0(1 - Y_1)f_1X_1$ $\frac{dX_2}{dt} = -DX_2 + Y_3f_3X_2I_2 - k_{dec,3}X_2$ $\frac{dS_3}{dt} = D(S_{3,in} - S_3) - f_3X_2I_2$ </div> <div> $f_1 = \frac{k_{m,1}S_1}{K_{S,1} + S_1}$ $f_3 = \frac{k_{m,3}S_3}{K_{S,3} + S_3}$ $I_2 = \frac{1}{1 + \frac{S_2}{K_{i,2}}}$ </div>
Y1	0.04	KS1	0.3	
kdec,1	0.02	KS2	0	
km2	0	KS3	0.001	
Y2	0	KS3c	0	
kdec,2	0	n1	3	
km3	21	n2	3	
Y3	0.04	n3	3	
kdec,3	0.02			
Y0	0.43			
Y1	0			
Y2	0			
		S2,in	0	
S1,in	5	S3,in	0	
Time	1000	Dilution Rate	0.1	

