







maintenance\_fun constant

keep\_ribosome\_kcat FALSE keep\_transport\_kcat FALSE

tC	GLY	RESP	ADPS	EAA	ENT	RNAp	DNAp	r
1	-0.04	0	0	-1	-0.167	Ō	Ō	0
0	0	0	0	1	-0.167	0	0	-0.2
0	0	0	-1	0	0.334	-1	-1	0
0	-0.96	-0.981	1	0	0.666	0	0	8.0
0	0.96	0.981	0	0	-0.666	0	0	-0.8
0	0	0	0	0	0	1	0	0
0	0	0	0	0	0	0	1	0
0	0	0	0	0	0	0	0	0.2
	1 0 0 0 0 0	1 -0.04 0 0 0 0 0 -0.96	1 -0.04 0 0 0 0 0 0 0 0 -0.96 -0.981	1 -0.04 0 0 0 0 0 0 0 0 0 -1 0 -0.96 -0.981 1	1 -0.04 0 0 -1 0 0 0 0 1 0 0 0 -1 0 0 -0.96 -0.981 1 0	1 -0.04 0 0 -1 -0.167   0 0 0 0 1 -0.167   0 0 0 -1 0 0.334   0 -0.96 -0.981 1 0 0.666	1 -0.04 0 0 -1 -0.167 0   0 0 0 0 1 -0.167 0   0 0 0 0 1 -0.167 0   0 0 0 -1 0 0.334 -1   0 -0.96 -0.981 1 0 0.666 0	1 -0.04 0 0 -1 -0.167 0 0   0 0 0 0 1 -0.167 0 0   0 0 0 0 1 -0.167 0 0   0 0 0 -1 0 0.334 -1 -1   0 -0.96 -0.981 1 0 0.666 0 0

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	tC	GLY	RESP	ADPS	EAA	ENT	RNAp	DNAp	r
x_C	0.1	0	0	0	0	0	0	0	0
$x_W$	0	20	0	0	0	0	0	0	0
С	17	6	0	0	6	6	0	0	0
AA	0	0	0	0	11	4	0	0	4
NT	0	0	0	4	0	11	4	4	0
ADP	0	1	1	1	0	1	0	0	0
ATP	0	6	6	0	0	2	0	0	2
RNA	0	0	0	0	0	0	0	0	0
DNA	0	0	0	0	0	0	0	0	0
р	0	0	0	0	0	0	0	0	0

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	tC	GLY	RESP	ADPS	EAA	ENT	RNAp	DNAp	r
x_C	0	0	0	0	0	0	Ō	Ō	0
x_W	0	0	0	0	0	0	0	0	0
С	0	0	0	0	0	0	0	0	0
AA	0	0	0	0	0	0	0	0	0
NT	0	0	0	0	0	0	0	0	0
ADP	0	0	0	0	0	0	0	0	0
ATP	0	0	0	0	0	0	0	0	0
RNA	0	0	0	0	0	0	0	0	40
DNA	0	0	0	0	0	0	4	4	0
р	0	0	0	0	0	0	0	0	0

#### kcat

	tC	GLY	RESP	ADPS	EAA	ENT	RNAp	DNAp	r
kcatf	29	5	210	18	8	153	6	13	19
kcatb	3	1	21	2	1	15	0	0	0

#### Keq

[1,]	<b>[,1]</b> 1643.33333333333	<b>[,3]</b> 60	<b>[,4]</b> 2.25	<b>[,5]</b> 14.666666666667		<b>[,9]</b> Inf

## phi input

				[,4]						
[1,]	0.065	0.035	0.035	0.003	0.248	0.032	0.119	0.003	0.46	

## average saturation input

# minimal phi constraint

[1,]

### minimal f constraint

	[,1]	[,2]	[,3]	[,4]	[,5]	[,6]	[,7]	[,8]	[,9]
[1,]	Ō	Ō	Ō	Ō	Ō	Ō	Ō	Ō	Ō