







maintenance\_fun constant

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

	tC	FERM	RESP	ADPS	EAA	ENT	RNAp	DNAp	r
С	1	0	-0.04	0	-0.8	-0.167	Ō	Ō	0
ı	0	-0.2	0.04	0	-0.2	0	0	0	0
AA	0	0	0	0	1	-0.167	0	0	-0.2
NT	0	0	0	-1	0	0.334	-1	-1	0
ADP	0	-0.8	-0.96	1	0	0.666	0	0	0.8
ATP	0	0.8	0.96	0	0	-0.666	0	0	-0.8
RNA	0	0	0	0	0	0	1	0	0
DNA	0	0	0	0	0	0	0	1	0
р	0	0	0	0	0	0	0	0	0.2

	tC	FERM	RESP	ADPS	EAA	ENT	RNAp	DNAp	r
x_C	0.1	0	0	0	0	0	0	0	0
$x_W$	0	10	50	0	0	0	0	0	0
С	12	0	0	0	4	4	0	0	0
ı	0	1	5	0	1	0	0	0	0
AA	0	0	0	0	3	1	0	0	1
NT	0	0	0	1	0	1	1	1	0
ADP	0	1	5	1	0	1	0	0	0
ATP	0	176	880	0	0	59	0	0	59
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	ENI	RNAp	DNAp	r
x_C	0	0	0	0	0	0	Ō	Ō	0
xW	0	0	0	0	0	0	0	0	0
С	0	0	0	0	0	0	0	0	0
I	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	FERM	RESP	ADPS	EAA	ENT	RNAp	DNAp	r
kcatf	100	9870	987	2000	26	1130	6	13	19
kcatb	10	987	99	200	3	113	0	0	0

### Keq

[1,]	<b>[,1]</b> 1200	<b>[,2]</b> 17600	<b>[,3]</b> 8773.33333333333	<b>[,4]</b> 10	<b>[,5]</b> 6.5	<b>[,6]</b> 0.0423728813559322	<b>[,7]</b> Inf	<b>[,8]</b> Inf	<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