





maintenance\_fun constant

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

	tC	FERM	RESP	ADPS	EAA	ENT	RNAp	DNAp	r
С	1	-0.4	-0.3	0	0	0	Ō	Ō	0
I	0	0.2	0.2	0	-1	-0.17	0	0	0
AA	0	0	0	0	1	-0.17	0	0	-0.2
NT	0	0	0	-1	0	0.34	-1	-1	0
ADP	0	-0.6	-0.7	1	0	0.66	0	0	0.8
ATP	0	0.6	0.7	0	0	-0.66	0	0	-0.8
rRNA	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

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	tC	FERM	RESP	ADPS	EAA	ENT	RNAp	DNAp	r
x_C	0.1	0	0	0	0	0	Ō	Ō	0
$x_W$	0	10	2	0	0	0	0	0	0
С	0	8	1.6	0	0	0	0	0	0
ı	0	0	0	0	2	2	0	0	0
AA	0	0	0	0	0	2	0	0	2
NT	0	0	0	1	0	0	1	1	0
ADP	0	1	0.2	0	0	0	0	0	0
ATP	0	0	0	0	0	0	0	0	3
rRNA	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
x_W	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
rRNA	0	0	0	0	0	0	0	0	20
DNA	0	0	0	0	0	0	4	4	0
р	0	0	0	0	0	0	0	0	0

kcat

	[,1]	[,∠]	[,3]	[,4]	[,၁]	[,6]	[,/]	[,8]	[,9]
kcatf	59.8	412.9	82.6	29.3	7.9	160.3	6.8	14.7	21.4
kcatb	0	0	0	0	0	0	0	0	0

## Keq



## minimal phi constraint

[1,]

## minimal f constraint

	[,1]	[,2]	[,3]	[,4]	[,5]	[,6]	[,7]	[,8]	[,9]
[1,]	Ō	Ō	Ō	Ō	Ō	Ō	Ō	<b>[8,]</b> 0	Ō