





maintenance_fun constant

keep_ribosome_kcat FALSE keep_transport_kcat FALSE

	tC	FERM	RESP	ADPS	EAA	ENT	RNAp	DNAp	INH	r
С	1	-0.4	-0.3	0	0	0	Ō	Ō	0	0
- 1	0	0.2	0.2	0	-1	-0.17	0	0	0	0
AA	0	0	0	0	1	-0.17	0	0	0	-0.2
NT	0	0	0	-1	0	0.34	-1	-1	0	0
ADP	0	-0.6	-0.7	1	0	0.66	0	0	0	8.0
ATP	0	0.6	0.7	0	0	-0.66	0	0	0	-0.8
rRNA	0	0	0	0	0	0	1	0	0	0
DNA	0	0	0	0	0	0	0	1	0	0
р	0	0	0	0	0	0	0	0	0	0.2

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

	tC	GLY	RESP	ADPS	EAA	ENT	RNAp	DNAp	INH	r
x_C	0	0	0	0	0	0	0	0	0	0
xW	0	0	0	0	0	0	0	0	0	0
С	0	0	0	0	0	0	0	0	0	0
I	0	0	0	0	0	0	0	0	0	0
AA	0	0	0	0	0	0	0	0	0	0
NT	0	0	0	0	0	0	0	0	0	0
ADP	0	0	0	0	0	0	0	0	0	0
ATP	0	0	0	0	0	0	0	0	0	0
rRNA	0	0	0	0	0	0	0	0	0	40
DNA	0	0	0	0	0	0	4	4	0	0
р	0	0	0	0	0	0	0	0	0	0

kcat

	tC	FERM	RESP	ADPS	EAA	ENT	RNAp	DNAp	INH	r
kcatf	58.5	403.3	80.6	28.7	7.8	156.6	6.6	14.4	11	21
kcatb	0	0	0	0	0	0	0	0	0	0

Keq



phi input

[1,]	[,1] 0.065	[,2] 0.035	[,3] 0.035	[,4] 0.003	[,5] 0.248	[,6] 0.032	[,7] 0.119	[,8] 0.003	[,9] O	[,10] 0.46	

average saturation input

minimal phi constraint

[1,]

minimal f constraint

[1,]

[,10] 0