





maintenance_fun constant

keep_ribosome_kcat FALSE keep_transport_kcat FALSE

	tC	FERM	RESP	PREC	ADPS	EAA	ENT	RNAp	DNAp	r
С	1	-0.4	-0.2	-0.5	0	0	0	0	0	0
I	0	0	0	0.5	0	-1	-0.17	0	0	0
AA	0	0	0	0	0	1	-0.17	0	0	-0.2
NT	0	0	0	0	-1	0	0.34	-1	–1	0
ADP	0	-0.6	-0.8	0.5	1	0	0.66	0	0	0.8
ATP	0	0.6	0.8	-0.5	0	0	-0.66	0	0	-0.8
rRNA	0	0	0	0	0	0	0	1	0	0
DNA	0	0	0	0	0	0	0	0	1	0
р	0	0	0	0	0	0	0	0	0	0.2

	tC	FERM	RESP	PREC	ADPS	EAA	ENT	RNAp	DNAp	r
x_C	0.1	0	0	0	0	0	0	0	0	0
x_W	0	10	5	0	0	0	0	0	0	0
С	0	8	4	8	0	0	0	0	0	0
I	0	0	0	0	0	2	2	0	0	0
AA	0	0	0	0	0	0	2	0	0	2
NT	0	0	0	0	1	0	0	1	1	0
ADP	0	1	0.5	0	0	0	0	0	0	0
ATP	0	0	0	3	0	0	3	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	FERM	RESP	PREC	ADPS	EAA	ENT	RNAp	DNAp	r
x_C	0	0	0	0	0	0	0	0	0	0
x_W	0	0	0	0	0	0	0	0	0	0
С	0	0	0	2	0	0	0	0	0	0
I	0	0	0	2	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	20
DNA	0	0	0	0	0	0	0	4	4	0
р	0	0	0	0	0	0	0	0	0	0

kcat

	tC	FERM	RESP	PREC	ADPS	EAA	ENT	RNAp	DNAp	r
kcatf	116.7	512.6	102.5	230.1	29.2	7.9	159.4	6.7	14.6	21.3
kcatb	0	0	0	0	0	0	0	0	0	0

Keq



phi input

[1,]	[,1] 0.035	[,2] 0.035	[,3] 0.035	[,4] 0.03	[,5] 0.003	[,6] 0.248	[, 7] 0.032	[,8] 0.119	[,9] 0.003	[,10] 0.46

average saturation input

minimal phi constraint

[1,]

minimal f constraint

[1,]

[,10] 0