

maintenance_fun constant

keep_ribosome_kcat FALSE keep_transport_kcat FALSE

	tC	GLY	FERM	RESP	NADS	ADPS	EAA	ENT	RNAp	DNAp	r
С	1	-0.5	0	0	0	0	0	0	Ō	Ō	0
I	0	0.5	-0.5	-0.5	-1	0	-1	-0.17	0	0	0
AA	0	0	0	0	0	0	1	-0.17	0	0	-0.2
NT	0	0	0	0	0	-1	0	0.34	-1	-1	0
NAD	0	-0.25	0.5	0	1	0	0	0	0	0	0
NADH	0	0.25	-0.5	0	0	0	0	0	0	0	0
ADP	0	-0.25	0	-0.5	0	1	0	0.66	0	0	0.8
ATP	0	0.25	0	0.5	0	0	0	-0.66	0	0	-0.8
rRNA	0	0	0	0	0	0	0	0	1	0	0
DNA	0	0	0	0	0	0	0	0	0	1	0
р	0	0	0	0	0	0	0	0	0	0	0.2

	tC	GLY	FERM	RESP	NADS	ADPS	EAA	ENT	RNAp	DNAp	r
x_C	0.1	0	0	0	0	0	0	0	Ō	Ō	0
x_W	0	0	10	2	0	0	0	0	0	0	0
С	0	2	0	0	0	0	0	0	0	0	0
I	0	0	2	0.4	2	0	2	2	0	0	0
AA	0	0	0	0	0	0	0	2	0	0	2
NT	0	0	0	0	0	1	0	0	1	1	0
NAD	0	1	0	0	0	0	0	0	0	0	0
NADH	0	0	6	1.2	0	0	0	0	0	0	0
ADP	0	1	0	0	0	0	0	0	0	0	0
ATP	0	0	0	0	0	0	0	3	0	0	3
rRNA	0	0	0	0	0	0	0	0	0	0	0
DNA	0	0	0	0	0	0	0	0	0	0	0
р	0	0	0	0	0	0	0	0	0	0	0

	tC	GLY	FERM	RESP	NADS	ADPS	EAA	ENT	RNAp	DNAp	r
x_C	0	0	0	0	0	0	0	0	Ō	Ō	0
x_W	0	0	0	0	0	0	0	0	0	0	0
С	0	0	0	0	0	0	0	0	0	0	0
I	0	0	0	0	0	0	0	0	0	0	0
AA	0	0	0	0	0	0	0	0	0	0	0
NT	0	0	0	0	0	0	0	0	0	0	0
NAD	0	0	0	0	0	0	0	0	0	0	0
NADH	0	0	0	0	0	0	0	0	0	0	0
ADP	0	0	0	0	0	0	0	0	0	0	0
ATP	0	0	0	0	0	0	0	0	0	0	0
rRNA	0	0	0	0	0	0	0	0	0	0	35
DNA	0	0	0	0	0	0	0	0	4	4	0
р	0	0	0	0	0	0	0	0	0	0	0

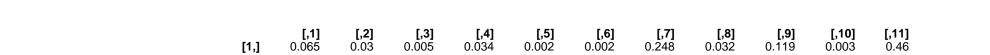
kcat

	tC	GLY	FERM	RESP	NADS	ADPS	EAA	ENT	RNAp	DNAp	r
kcatf	114.4	1169.7	2283.8	456.8	85	41	7.4	149.1	6.3	13.7	20
kcatb	0	0	0	0	0	0	0	0	0	0	0

Keq



phi input



average saturation input

minimal phi constraint

[,5] 0

[,6] 0

[,1] [,2] 0 0

[1,]

[,**3]** [,**4]** 0

[8,] 0 **[,9]** 0 **[,11]** 0

[,7] 0

minimal f constraint

[,1] [,2] [,3] [,4] 0 0 0 0

[1,]

[,7] 0 **[,9]** 0

[,8] 0

[,11] 0

[,**5]** [,**6]** 0