





maintenance_fun constant

keep_ribosome_kcat FALSE keep_transport_kcat FALSE

	tC	tC2	BGAL	ATPS	EAA	ENT	RNAp	DNAp	r
С	1	0	1	-1	-1	-0.45	Ö	0	0
C2	0	1	-1	0	0	0	0	0	0
AA	0	0	0	0	1	-0.45	0	0	-0.8
NT	0	0	0	0	0	1	-1	-1	0
ATP	0	0	0	0.5	0	-0.1	0	0	-0.2
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	1

tC	tC2	BGAL	ATPS	EAA	ENT	RNAp	DNAp	r
0.1	0	0	0	0	0	Ō	Ō	0
0	0.2	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	11	11	11	0	0	0
0	0	1	0	0	0	0	0	0
0	0	0	0	0	2	0	0	2
0	0	0	0	0	0	1	1	0
0	0	0	0	0	2	0	0	2
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
		0.1 0	0.1 0 0	0.1 0 0 0	0.1 0 0 0 0	0.1 0 0 0 0 0	0.1 0 0 0 0 0	0.1 0 0 0 0 0 0

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	tC	tC2	BGAL	AIPS	EAA	ENI	RNAp	DNAp	r
x_C	0	0	0	0	0	0	Ō	Ō	0
x_C2	0	0	0	0	0	0	0	0	0
x_W	0	0	0	0	0	0	0	0	0
С	0	0	0	0	0	0	0	0	0
C2	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
ATP	0	0	0	0	0	0	0	0	0
RNA	0	0	0	0	0	0	0	0	25
DNA	0	0	0	0	0	0	4	4	0
р	0	0	0	0	0	0	0	0	0

kcat

	tC	tC2	BGAL	ATPS	EAA	ENI	RNAp	DNAp	r
kcatf	34	10	10	12	6	39	6	8	4
kcatb	0	0	0	0	0	0	0	0	0

Keq



phi input

[1,]	[,1] 0.065	[,2] 0.001	[,3] 0.001	[,4] 0.067	[,5] 0.248	[,6] 0.035	[,7] 0.119	[,8] 0.003	[,9] 0.461	

average saturation input

minimal phi constraint

[1,]

minimal f constraint

	[,1]	[,2]	[,3]	[,4]	[,5]	[,6]	[,7]	[,8]	[,9]
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