





maintenance\_fun constant

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

	tC	tC2	ATPS	ATPS2	EAA	ENT	RNAp	DNAp	r
С	1	0	-1	0	0	0	0	Ō	0
C2	0	1	0	-1	0	0	0	0	0
I	0	0	0.7	0.6	-1	-0.45	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	0.3	0.4	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

K

	tC	tC2	ATPS	ATPS2	EAA	ENT	RNAp	DNAp	r
x_C	0.1	0	0	0	0	0	0	0	0
x_C2	0	1	0	0	0	0	0	0	0
С	0	0	6	0	0	0	0	0	0
C2	0	0	0	1	0	0	0	0	0
I	0	0	0	0	1	1	0	0	0
AA	0	0	0	0	0	1	0	0	1
NT	0	0	0	0	0	0	1	1	0
ATP	0	0	0	0	0	14	0	0	14
RNA	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

KA

	tC	tC2	<b>ATPS</b>	ATPS2	EAA	ENT	RNAp	DNAp	r
x_C	0	0	0	0	0	0	0	0	0
x_C2	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
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
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	ATPS	ATPS2	EAA	ENT	RNAp	DNAp	r
kcatf	33.6	10.5	41	10.5	6.3	41	6.3	8.4	4.2
kcatb	0	0	0	0	0	0	0	0	0

#### Keq



## phi input

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

### average saturation input

# minimal phi constraint

[1,]

#### minimal f constraint

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