

	tC	ATPS	ADPS	EAA	ENT	LIPS	Maint	RNAp	DNAp	r
С	1	-0.02	0	-1	-0.167	-0.18	0	Ō	Ō	0
AA	0	0	0	1	-0.167	0	0	0	0	-0.2
NT	0	0	-1	0	0.334	0	0	-1	-1	0
ADP	0	-0.98	1	0	0.666	0.82	1	0	0	0.8
ATP	0	0.98	0	0	-0.666	-0.82	-1	0	0	-0.8
LIP	0	0	0	0	0	0.18	0	0	0	0
RNA	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

K

	tC	ATPS	ADPS	EAA	ENT	LIPS	Maint	RNAp	DNAp	r
x_C	0.1	0	0	0	0	0	0	0	0	0
x_W	0	20	0	0	0	0	0	0	0	0
С	26	9	0	9	9	9	0	0	0	0
AA	0	0	0	7	3	0	0	0	0	3
NT	0	0	3	0	7	0	0	3	3	0
ADP	0	1	1	0	1	1	0	0	0	0
ATP	0	7	0	0	3	3	3	0	0	3
LIP	0	0	0	0	0	35	0	0	0	0
RNA	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

x_C 0 0 0 0 0 0.05 0 <th></th> <th>tC</th> <th>ATPS</th> <th>ADPS</th> <th>EAA</th> <th>ENT</th> <th>LIPS</th> <th>Maint</th> <th>RNAp</th> <th>DNAp</th> <th>r</th>		tC	ATPS	ADPS	EAA	ENT	LIPS	Maint	RNAp	DNAp	r
x_W 0	x_C	0	0	0	0	0	0	0.05	Ō	Ō	0
C 0		0	0	0	0	0	0	0	0	0	0
NT 0	С	0	0	0	0	0	0	0	0	0	0
ADP 0 0 0 0 0 0 0 0 0 ATP 0 </th <th>AA</th> <th>0</th>	AA	0	0	0	0	0	0	0	0	0	0
ATP 0 70	NT	0	0	0	0	0	0	0	0	0	0
LIP 30 0 0 0 0 0 0 0 0 0 0 0 0 RNA 0 0 0 0 0 0 0 0 0 70	ADP	0	0	0	0	0	0	0	0	0	0
RNA 0 0 0 0 0 0 0 0 0 70		0	0	0	0	0	0	0	0	0	0
		30	0	0	0	0	0	0	0	0	0
DNA 0 0 0 0 0 0 0 5 5 0 p 0 0 0 0 0 0 0 0 0		0	0	0	0	0	0	0	0	0	70
p 0 0 0 0 0 0 0 0 0 0	DNA	0	0	0	0	0	0	0	5	5	0
	р	0	0	0	0	0	0	0	0	0	0

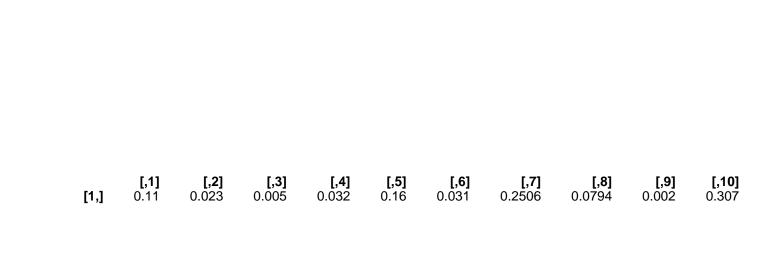
kcat

	tC	ATPS	ADPS	EAA	ENT	LIPS	Maint	RNAp	DNAp	r
kcatf	20	903	11	53	20	58	77	6	15	29
kcatb	2	90	1	5	2	6	0	0	0	0

Keq

[1,]	[,1]	[,2]	[,3]	[,4]	[,5]	[,6]	[,7]	[,8]	[,9]	[,10]
	2600	156.074074074074	3.66666666666667	8.24444444444444	0.864197530864197	12.5308641975309	Inf	Inf	Inf	Inf

phi input



average saturation input

minimal phi constraint

[1,]

minimal f constraint

[1,]

[,10] 0