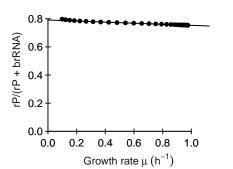
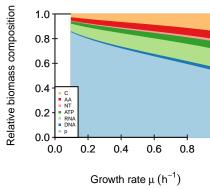
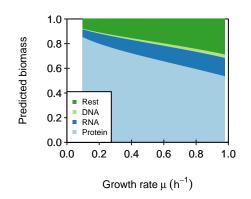
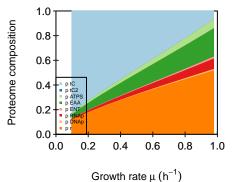


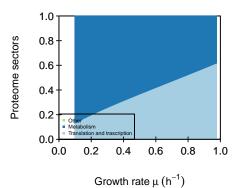
Protein mass fraction in ribosome











maintenance_fun constant

keep_ribosome_kcat FALSE keep_transport_kcat FALSE

	tC	tC2	ATPS	EAA	ENT	RNAp	DNAp	r
С	1	1	-1	-1	-0.45	0	0	0
AA	0	0	0	1	-0.45	0	0	-0.8
NT	0	0	0	0	1	-1	-1	0
ATP	0	0	0.5	0	-0.1	0	0	-0.2
RNA	0	0	0	0	0	1	0	0
DNA	0	0	0	0	0	0	1	0
р	0	0	0	0	0	0	0	1

K

	tC	tC2	ATPS	EAA	ENT	RNAp	DNAp	r
x_C	0.1	0.1	0	0	0	Ō	Ō	0
x_C2	0	0	0	0	0	0	0	0
С	0	0	11	11	11	0	0	0
AA	0	0	0	0	2	0	0	2
NT	0	0	0	0	0	1	1	0
ATP	0	0	0	0	2	0	0	2
RNA	0	0	0	0	0	0	0	0
DNA	0	0	0	0	0	0	0	0
р	0	0	0	0	0	0	0	0

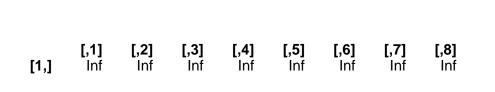
KA

	tC	tC2	AIPS	EAA	ENI	KNAP	DNAP	r
x_C	0	0	0	0	0	Ō	Ō	0
x_C2	0	0	0	0	0	0	0	0
С	0	0	0	0	0	0	0	0
AA	0	0	0	0	0	0	0	0
NT	0	0	0	0	0	0	0	0
ATP	0	0	0	0	0	0	0	0
RNA	0	0	0	0	0	0	0	25
DNA	0	0	0	0	0	4	4	0
р	0	0	0	0	0	0	0	0

kcat

	[,1]	[,2]	[,3]	[,4]	[,5]	[,6]	[,7]	[,8]
kcatf	34	10	12	6	39	6	8	4
kcatb	0	0	0	0	0	0	0	0

Keq



minimal phi constraint

minimal f constraint