

Sheet1

Biophysical Constants	Original Value	Plus 20%	Minus 20%	Change (Orig and +20%)
transcription_saturation_constant	0.24	0.288	0.192	0.048
translation_saturation_constant	454.64	545.568	363.712	90.928
characteristic_initiation_time_transcription	42	50.4	33.6	8.4
characteristic_initiation_time_translation	15	18	12	3
cell_doubling_time	0.66	0.792	0.528	0.132
mass_of_single_cell	2.80E-13	3.36E-13	2.24E-13	5.6E-14
fraction_of_water_per_cell	0.7	0.84	0.56	0.14
copies_of_rnapII_per_cell	1150	1380	920	230
copies_of_ribosome_per_cell	45000	54000	36000	9000
translation_elongation_rate	16.5	19.8	13.2	3.3
transcription_elongation_rate	60	72	48	12
characteristic_transcript_length	1000	1200	800	200
characteristic_protein_length	330	396	264	66