

Default experimental parameters

Parameter	Value
Width	100
Height	100
Depth	100
Iterations	1,000
Light intensity	1
Temperature	20
Optimal temperature	20
Functional temperature range	10
Initial cell density	0.01
Initial chemical density	0.8
Maximum initial chemicals per element	255
Initial non-digestible toxin density	0.05
Maximum initial non-digestible toxins per element	150
Maximum cell size	15
Energy threshold for growth	250
Energy cost for growth	150
Minimum cell energy for survival	20
Minimum cell chemicals for survival	1
Maximum cell digestible toxin for survival	254
Maximum cell non-digestible toxin for survival	254
Digestible toxin digestion threshold	200
Cell energy usage rate	15
Cell chemical usage rate	1
Cell chemical acquisition rate	30
Light energy conversion rate	10
CO_2 energy conversion rate	15
Digestible toxin generation rate	1
Digestible toxin digestion rate	1
Digestible toxin digestion energy cost	1
Movement probability	0.1

Table 1: Default Experiment Parameter Values