

	Base model (37 °C)	MAP model (4 °C)	PAGGGM model (4 °C)
Enzymatic activities	100%	24%	25%
Purine metabolism activities	100%	34%	30%
Sodium/potassium pump activity	100%	6.0%	1.0%
Extracellular glucose	5 mM (fixed)	40 mM	47.5 mM
Extracellular adenine	0.015 mM (fixed)	1.04 mM	1.44 mM
Extracellular inorganic phosphate	1.1 mM (fixed)	6 mM	16 mM
Extracellular sodium ion	135 mM (fixed)	106 mM	64 mM
Extracellular guanosine	-	-	1.44 mM
Guanosine phosphorylation	-	-	First-order kinetics
pH setting	pH = 7.2 (fixed)	Initial pH = 6.95, pH(t) = $at + 6.95$ $a = -8.66 \times 10^{-8}$	Initial pH = 7.62, pH(t) = $at^2 + bt + 7.62$ $a = 8.79 \times 10^{-14}$ $b = -6.01 \times 10^{-7}$
State of hemoglobin	Transition between T- and R-state in response to various parameters; pO ₂ , pCO ₂ , pH, temperature and 2,3-BPG	R-state	R-state