

#	Process	Equation
	Heterotrophs	
0	Aerobic growth	$\mu_{Hmax} \cdot \frac{S_O}{K_{OH} + S_O} \cdot \frac{S_C}{K_C + S_C} \cdot X_H$
1	Aerobic endogenous respiration	$b_H \cdot \frac{S_O}{K_{OH} + S_O} \cdot X_H$
	AOB	
2	Aerobic growth	$\mu_{Amax} \cdot \frac{S_O}{K_{O_A} + S_O} \cdot \frac{S_A}{K_A + S_A} \cdot X_A$
3	Aerobic endogenous respiration	$b_A \cdot \frac{S_O}{K_{O_A} + S_O} \cdot X_A$
	NOB	
4	Aerobic growth on NO ₂ ⁻	$\mu_{Nmax} \cdot \frac{S_O}{K_{ON} + S_O} \cdot \frac{S_N}{K_N + S_N} \cdot X_N$
5	Aerobic endogenous respiration	$b_N \cdot \frac{S_O}{K_{ON} + S_O} \cdot X_N$