## Supplementary Table 1: Effect of pH changes and different anions on cyanobacterial sAC (CyaC) activity in solution and on CyaC crystals.

Compound added	CyaC activation	Effect on CyaC crystals
Reference	-	
(no compound added, pH 7.5)		
Ammonium nitrate (100 mM)	-	no effect
Sodium phosphate (100 mM)	-	no effect
Sodium acetate (100 mM)	-	no effect
bicarbonate (100 mM), pH 7.5	+	crystals dissolve
bicarbonate (50 mM), pH 7.5	+	crystals dissolve
pH 7.5 (100 mM Tris/HCl)	-	no effect
bicarbonate (100 mM), pH 6.5	+	crystals dissolve
pH 6.6 (100 mM Cacodylate)	-	no effect