

**S3 Table. C-free medium composition**

Compound	Concentration
Na <sub>2</sub> HPO <sub>4</sub>	28.61mM
KH <sub>2</sub> PO <sub>4</sub>	11.39mM
(NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub>	7.568mM
Nitrilotriacetic acid	1.046mM
MgSO <sub>4</sub>	2.401mM
CaCl <sub>2</sub>	0.4537mM
(NH <sub>4</sub> ) <sub>6</sub> Mo <sub>7</sub> O <sub>2</sub>	0.1497μM
FeSO <sub>4</sub>	7.122μM
Na <sub>2</sub> ·EDTA	8.554μM
ZnSO <sub>4</sub>	38.25μM
FeSO <sub>4</sub>	17.98μM
MnSO <sub>4</sub> ·H <sub>2</sub> O	9.111μM
CuSO <sub>4</sub>	1.574μM
CoCl <sub>2</sub>	0.8490μM
Na <sub>2</sub> B <sub>4</sub> O <sub>7</sub>	0.4641μM
Yeast Extract	0.05g/L