

**Supplement Table S2:** Nutrient media N (Appenroth, K.J. et al., 1996, DOI10.1007/BF02879642) and Hutner's medium (Hutner S.H., 1953: Comparative physiology of heterotrophic growth. In: LOOMIS W.E. (ed.), Growth and differentiation in plants. Iowa State, College Press, 417-446)

	N medium			Half-strength Hutner	
Salt	Formula	Molar concentration	Mass Concentration (mg L <sup>-1</sup> )	Molar concentration	Mass Concentration (mg L <sup>-1</sup> )
Ammonium nitrate	NH <sub>4</sub> NO <sub>3</sub>	-	-	1 mM	80
Boric acid	H <sub>3</sub> BO <sub>3</sub>	5 µM	0.309	0.121 mM	7.5
Calcium nitrate	Ca(NO <sub>3</sub> ) <sub>2</sub> *7H <sub>2</sub> O	1 mM	236	0.345 mM	100
Cobalt chloride	CoCl <sub>2</sub> *6H <sub>2</sub> O	-	-	2.1 µM	0.5
Copper sulphate	CuSO <sub>4</sub> *5H <sub>2</sub> O	-	-	8 µM	2
EDTA Iron sodium	FeNaEDTA	25 µM	9.2	-	-
EDTA Sodium	Na <sub>2</sub> EDTA*2H <sub>2</sub> O	-	-	0.672 mM	250
Iron sulphate	FeSO <sub>4</sub> *7H <sub>2</sub> O	-	-	50 µM	13.9
Magnesium sulphate	MgSO <sub>4</sub> *7H <sub>2</sub> O	1 mM	246	1.02 mM	250

Manganese chloride	$\text{MnCl}_2 \cdot 4\text{H}_2\text{O}$	13 $\mu\text{M}$	2.57	55 $\mu\text{M}$	10.9
Potassium dihydrogen phosphate	$\text{KH}_2\text{PO}_4$	150 $\mu\text{M}$	20.4	-	-
Di-Potassium hydrogen phosphate	$\text{K}_2\text{HPO}_4$	-	-	1.15 mM	200
Potassium nitrate	$\text{KNO}_3$	8 mM	809	-	-
Sodium molybdate	$\text{Na}_2\text{MoO}_4 \cdot 2\text{H}_2\text{O}$	0.4 $\mu\text{M}$	0.097	57 $\mu\text{M}$	12.5
Zinc sulphate	$\text{ZnSO}_4 \cdot 7\text{H}_2\text{O}$	-	-	113 $\mu\text{M}$	32.5