

Appendix A Formulation of nutrient solution

Treatment	Formula
LN	0.1 mM NH <sub>4</sub> NO <sub>3</sub> , 0.3 mM NaH <sub>2</sub> PO <sub>4</sub> , 0.5 mM K <sub>2</sub> SO <sub>4</sub> , 1.0 mM CaCl <sub>2</sub> , 1.6 mM MgSO <sub>4</sub> , 0.17 mM Na <sub>2</sub> SiO <sub>3</sub> , 50 μM Fe-EDTA, 0.06 μM (NH <sub>4</sub> ) <sub>6</sub> Mo <sub>7</sub> O <sub>24</sub> , 15 μM H <sub>3</sub> BO <sub>3</sub> , 8 μM MnCl <sub>2</sub> , 0.12 μM CuSO <sub>4</sub> , 0.12 μM ZnSO <sub>4</sub> , 29 μM FeCl <sub>3</sub> , 40.5 μM citric acid (pH 5.5)
NN	1.44 mM NH <sub>4</sub> NO <sub>3</sub> , 0.3 mM NaH <sub>2</sub> PO <sub>4</sub> , 0.5 mM K <sub>2</sub> SO <sub>4</sub> , 1.0 mM CaCl <sub>2</sub> , 1.6 mM MgSO <sub>4</sub> , 0.17 mM Na <sub>2</sub> SiO <sub>3</sub> , 50 μM Fe-EDTA, 0.06 μM (NH <sub>4</sub> ) <sub>6</sub> Mo <sub>7</sub> O <sub>24</sub> , 15 μM H <sub>3</sub> BO <sub>3</sub> , 8 μM MnCl <sub>2</sub> , 0.12 μM CuSO <sub>4</sub> , 0.12 μM ZnSO <sub>4</sub> , 29 μM FeCl <sub>3</sub> , 40.5 μM citric acid (pH 5.5)

Appendix B The primer sequences of qRT-PCR

Primer name	Sequence (5'-3')	Used for
CsGS1-F	AGCCATCCTGATGTTGTTGC	qRT-PCR
CsGS1-R	TTTGTCAACACCGACACCAC	qRT-PCR
qEF1a-F	CCAAGGCAAGGTACGATGAAA	qRT-PCR
qEF1a-R	AGAGATGGGAACGAAGGGGAT	qRT-PCR

Appendix C The primer sequences

Primer name	Sequence (5'-3')	Used for
PCXSCN1250-F	CGGCAACAGGATTCAATCTTA	PCR detection
PCXSCN1250-R	CAAGCATTCTACTTCTATTGCAGC	PCR detection