

997. HNW MEDIUM

NaNO ₃	1.000	g
NaHCO ₃	1.000	g
Na ₂ WO ₄ x 2 H ₂ O	0.100	mg
Na ₂ S	0.500	g
Trace vitamin solution (see medium 141)	10.000	ml
DMJ synthetic seawater (see below)	1000.000	ml

To prepare the medium, all compounds of DMJ seawater were dissolved in 1 liter of distilled deionized water, and the pH was adjusted to around 7.0 with NaOH at room temperature prior to autoclaving. After autoclaving, filter-sterilized NaNO₃ solution (100 g/l), NaHCO₃ solution (100 g/l), Na₂S solution (100 g/l); pH 7.5) and trace vitamin solution were added. Then the tubes were tightly sealed with butyl rubber stoppers under a gas phase of 80% H₂ + 20% CO₂ (300 kPa).

Synthetic seawater:

NaCl	30.000	g
K ₂ HPO ₄	0.140	g
CaCl ₂ x 2 H ₂ O	0.140	g
NH ₄ Cl	0.250	g
MgSO ₄ x 7 H ₂ O	3.400	g
MgCl ₂ x 6 H ₂ O	4.180	g
KCl	0.330	g
NiCl ₂ x 6 H ₂ O	0.500	mg
Na ₂ SeO ₃ x 5 H ₂ O	0.500	mg
Fe(NH ₄) ₂ (SO ₄) ₂ x 6 H ₂ O	0.010	g
Trace mineral solution (see below)	10.000	ml

Trace mineral solution:

C ₆ H ₉ NO ₆	1.500	g
MgSO ₄ x 7 H ₂ O	3.000	g
MnSO ₄ x 2 H ₂ O	0.500	g
NaCl	1.000	g
FeSO ₄ x 7 H ₂ O	0.100	g
CoSO ₄ x 7 H ₂ O	0.180	g
CaCl ₂ x 2 H ₂ O	0.100	g
ZnSO ₄ x 7 H ₂ O	0.180	g
CuSO ₄ x 5 H ₂ O	0.010	g
KAl(SO ₄) ₂ x 12 H ₂ O	0.020	g
H ₃ BO ₃	0.010	g
Na ₂ MoO ₄ x 2 H ₂ O	0.010	g
NiCl ₂ x 6 H ₂ O	0.025	g
Na ₂ SeO ₃ x 5 H ₂ O	0.300	mg