

1000. MJANHOX-NO3 MEDIUM WITH SUPPLEMENT

NaCl	3.000	g
K ₂ HPO ₄	0.014	g
CaCl ₂ x 2 H ₂ O	0.014	g
NH ₄ Cl	0.040	g
MgSO ₄ x 7 H ₂ O	0.340	g
MgCl ₂ x 6 H ₂ O	0.418	g
KCl	0.033	g
Fe ₂ (SO ₄) ₃ x X H ₂ O	0.005	g
NiCl ₂ x 6 H ₂ O	0.005	mg
Na ₂ SeO ₃ x 5 H ₂ O	0.005	mg
Na ₂ SiO ₃ x 9 H ₂ O	0.500	g
Trace mineral solution (see below)	1.000	ml
Distilled water	1000.000	ml

Before autoclaving, the pH of the Medium is adjusted with NaOH to 7.5-8.0. After autoclaving, the filter-sterilized vitamin solution (0.1% volume), and each of the separately autoclaved, concentrated solutions are added to the medium at a final concentration described below. Then a mix gas (80% H₂, 20% CO₂) is purged for 5 min. Finally, the mix gas is compressed into gas phase (> 80% volume of the tube or bottle) at 3 atm.

Na ₂ S ₂ O ₃ x 5 H ₂ O	10	mM
NaHCO ₃	0.20	%
NaNO ₃	0.05	%

Trace mineral solution:

nitrilotriacetic acid	1.500	g
MnSO ₄ x 2 H ₂ O	0.500	g
CoSO ₄ x 7 H ₂ O	0.500	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