

1845: Nitrososphaera gargensis medium

Final pH: 8.5

Final volume: 1000 ml

Basal salt stock solution (20x)	50.00	ml
Trace element solution (Nitrososphaera)	1.00	ml
FeNaEDTA solution (7.5 mM)	1.00	ml
Selenite-tungstate solution	1.00	ml
NH₄Cl (1 M)	0.50	ml

1. Add 50 mL of 20x Basal salt stock solution and 4 g CaCO₃ to 950 mL sterile double distilled water and mix all just before use.
2. Autoclave at 121 °C for 20 min.
3. Cool down to room temperature.
4. Add aseptic per liter of 1x basalt salt solution: 1 mL FeNaEDTA (7.5 mM), 1 mL trace elements solution, 1 mL Selenite-tungstate solution, 0.5 mL NH₄Cl solution.
5. Adjust pH to 8.5 with NaOH.

Basal salt stock solution (20x)

KH ₂ PO ₄	1.00	g
KCl	1.50	g
Mg(SO ₄) x 7 H ₂ O	7.00	g
NaCl	11.68	g

1. Prepare with double distilled water.
2. Autoclave at 121 °C for 20 min.
3. Cool down to room temperature.
4. Store in the dark at 4 °C.

Trace element solution (Nitrososphaera) (from medium 1630c)

HCl (12.5M)	8.00	ml
H ₃ BO ₃	30.00	mg
MnCl ₂ x 4 H ₂ O	100.00	mg
CoCl ₂ x 6 H ₂ O	190.00	mg
NiCl ₂ x 6 H ₂ O	24.00	mg
CuCl ₂ x 2 H ₂ O	2.00	mg
ZnSO ₄ x 7 H ₂ O	144.00	mg
Na ₂ MoO ₄ x 2 H ₂ O	36.00	mg

1845: Nitrososphaera gargensis medium

Double distilled water	1000.00	ml
------------------------	---------	----

This solution contains no iron! Sterilise by autoclaving or filtration (0.2 μm) and store in the dark at 4 °C.

FeNaEDTA solution (7.5 mM) (from medium 1630c)

FeNa-EDTA	2753.00	mg
Double distilled water	1000.00	ml

Sterilise by filtration (0.2 μm) and store in the dark at 4 °C.

Selenite-tungstate solution (from medium 385)

NaOH	0.50	g
Na ₂ SeO ₃ x 5 H ₂ O	3.00	mg
Na ₂ WO ₄ x 2 H ₂ O	4.00	mg
Distilled water	1000.00	ml

NH₄Cl (1 M) (from medium 1630c)

NH ₄ Cl	2.67	g
Double distilled water	50.00	ml

1. Dissolve 2.67 g ammonium chloride in 50 mL Double distilled water.
2. Filtrate (0.2 μm).