

## 1798: Artificial Seawater Medium

NaCl	27.00	g/l
MgSO <sub>4</sub> x 7 H <sub>2</sub> O	6.60	g/l
MgCl <sub>2</sub> x 6 H <sub>2</sub> O	5.60	g/l
CaCl <sub>2</sub> x 2 H <sub>2</sub> O	1.50	g/l
KNO <sub>3</sub>	1.00	g/l
KH <sub>2</sub> PO <sub>4</sub>	0.07	g/l
NaHCO <sub>3</sub>	0.04	g/l
Tris-HCl (1M, pH 7.6)	20.00	ml
<b>chelated iron solution</b>	1.00	ml
<b>trace metal solution</b>	1.00	ml
Agar (optional)	15.00	g/l
Galactose (used for liquid medium only) (optional)	9.00	g/l
Distilled water	1000.00	ml

### chelated iron solution

EDTA	14.60	g
Demineralized water	90.00	ml

1. Dissolve the EDTA in 90 mL demineralized water
2. Adjust pH to 7.6.

FeCl <sub>3</sub> x 6 H <sub>2</sub> O	0.24	g
Demineralized water	10.00	ml

3. dissolve FeCl<sub>3</sub> x 6 H<sub>2</sub>O in EDTA-solution and fill up to a final volume of 100 mL with demineralized water.

### trace metal solution

H <sub>3</sub> BO <sub>3</sub>	0.600	g/l
MnCl <sub>2</sub> x 4 H <sub>2</sub> O	0.400	g/l
(NH <sub>4</sub> ) <sub>6</sub> Mo <sub>7</sub> O <sub>24</sub> x 4 H <sub>2</sub> O	0.370	g/l
CuCl <sub>2</sub> x 2 H <sub>2</sub> O	0.040	g/l
ZnCl <sub>2</sub>	0.040	g/l
CoCl <sub>2</sub> x 6 H <sub>2</sub> O	0.015	g/l
Distilled water	1000.000	ml