

## 1137. RUBRITALEA MEDIUM

Peptone	1.5	g
Yeast extract	1.5	g
Glucose	1.5	g
Tris-HCl (1M, pH 7.5)	5.0	ml
Hutners basal salts (see below)	20.0	ml
Artificial sea water (see below)	975.0	ml

Adjust to pH 7.5

### *Hutners basal salts:*

Nitritotriacetic acid (NTA)	10.000	g
MgSO <sub>4</sub> x 7 H <sub>2</sub> O	29.700	g
CaCl <sub>2</sub> x 2 H <sub>2</sub> O	3.335	g
(NH <sub>4</sub> ) <sub>6</sub> MoO <sub>7</sub> O <sub>24</sub> x 4 H <sub>2</sub> O	9.250	mg
FeSO <sub>4</sub> x 7 H <sub>2</sub> O	99.000	mg
"Metals 44" (see below)	50.000	ml
Distilled water	950.000	ml

Dissolve the nitritotriacetic acid, adjust the pH to 7.0 with KOH (about 7.3 g). Dissolve other salts separately, combine and adjust the pH to 6.8 with NaOH or H<sub>2</sub>SO<sub>4</sub>.

### *"Metals 44":*

Na-EDTA	250.0	mg
ZnSO <sub>4</sub> x 7 H <sub>2</sub> O	1095.0	mg
FeSO <sub>4</sub> x 7 H <sub>2</sub> O	500.0	mg
MnSO <sub>4</sub> x H <sub>2</sub> O	154.0	mg
CuSO <sub>4</sub> x 5 H <sub>2</sub> O	39.2	mg
Co(NO <sub>3</sub> ) <sub>2</sub> x 6 H <sub>2</sub> O	24.8	mg
Na <sub>2</sub> B <sub>4</sub> O <sub>7</sub> x 10 H <sub>2</sub> O	17.7	mg
Distilled water	1000.0	ml

Dissolve the EDTA and add a few drops of concentrated H<sub>2</sub>SO<sub>4</sub> to retard precipitation of the heavy metal ions.

### *Artificial sea water, 3 times concentrated:*

NaCl	70.43	g
Na <sub>2</sub> SO <sub>4</sub>	11.75	g
NaHCO <sub>3</sub>	2.88	g
KCl	1.99	g
KBr	0.29	g
MgCl <sub>2</sub> x 6 H <sub>2</sub> O	31.86	g
CaCl <sub>2</sub> x 2 H <sub>2</sub> O	4.35	g
H <sub>3</sub> BO <sub>3</sub>	0.08	g
Distilled water	1000.00	ml

Add NaHCO<sub>3</sub> from a filter-sterilized stock solution when the medium has cooled.