Microorganisms



1534. MARINIFILUM MEDIUM

NaCl 13.00	g
MgCl ₂ x 6H2O 2.80	g
KCI 0.36	g
NH ₄ Cl 0.25	g
KH_2PO_4 0.20	g
CaCl ₂ x2H ₂ O 0.70	g
Na ₂ SO ₄ 1.42	g
Glucose 2.00	g
Resazurin (0.1%) 1.00	ml
Trace mineral element solution (SL10 medium 320)(see below) 1.00	ml
Selenite-tungstate solution (see below) 1.00	ml
NaHCO ₃ 2.52	g
$Na_2S \times 9 H_2O$ 0.50	g
Vitamin solution V7 (Pfennig et al.1981) (see below) 1.00	ml
Distilled water 1000.00	ml

pH 7.0- 7.2

Prepare the medium without NaHCO $_3$, Na $_2$ S x 9 H $_2$ O, vitamin solution, Selenite-tungstate solution and glucose. Boil the medium in a water bath and cool under a stream of N2/CO2 (80/20). Add the NaHCO $_3$ to the cooled medium (the pH should be 7.0-7.2) and dispense the medium into Hungate tubes or serum bottles under a stream of N2/CO2 (80/20). Seal the tubes under N2/CO2 (80/20) and autoclave. To the cooled medium at the appropriate amounts of Na $_2$ S x 9 H $_2$ O, vitamin solution, Selenite-tungstate solution and glucose from sterile, anaerobic stock solutions.

Selenite-tungstate solution:

Na ₂ SeO ₃ x5H ₂ O	3.0	mg
Na ₂ WO ₄ x 2H ₂ O	4.0	mg
NaOH	0.5	g
Distilled water	1000	ml
Trace element solution SL-10: HCI (25%; 7.7 M) $FeCl_2 \times 4 H_2O$ $ZnCl_2$ $MnCl_2 \times 4 H_2O$ H_3BO_3 $CoCl_2 \times 6 H_2O$ $CuCl_2 \times 2 H_2O$ $NiCl_2 \times 6 H_2O$	10.0 1.5 70.0 100.0 6.0 190.0 2.0 24.0 36.0 990.0	ml g mg mg mg mg mg mg

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First dissolve FeCl_2 in the HCl, then dilute in water, add and dissolve the other salts. Finally make up to 1000.0 ml. Adjust pH to 6.0.

Vitamin solution V7:

Biotin	20.0	mg
p-Aminobenzoic acid	50.0	mg
Vitamin B ₁₂	50.0	mg
Thiamine-dichlorid	50.0	mg
Nicotinic acid	100.0	mg
Ca-D-(+)-Panthothenic acid	25.0	mg
Pyridoxymine-Dihydrochloride	250.0	mg
Distilled water	1000.0	ml