

1524. PLANCTOMYCETES MEDIUM NH11

Hutner's basal salts (see below)	20.00	ml
Peptone (Bacto)	0.50	g
Glucose	0.25	g
HEPES (10mM)	2.38	g
Artificial seawater (see below)(see medium 600a)	500.00	ml
Agar (Bacto)	15.00	g
Distilled water	965.00	ml

Sterilize 20 min/121°C. After cooling to 60°C add to the medium:

Vitamin sol. (see medium 621) (see below)	5.00	ml
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Adjust pH to 7.5 (the medium is only weakly buffered; one needs approx. 10 drops/l medium of 6 N KOH).

Hutner's basal salts:

Nitilotriacetic acid (NTA)	10.00	g
MgSO ₄ x 7 H ₂ O	29.70	g
CaCl ₂ x 2 H ₂ O	3.34	g
Na ₂ MoO ₄ x 2 H ₂ O	12.67	mg
FeSO ₄ x 7 H ₂ O	99.00	mg
Metall salt sol. "44" (see medium 590)	50.00	ml
Distilled water	900.00	ml

Dissolve NTA first by neutralizing with KOH, then add other salts. Adjust pH to 7.2 with KOH or H₂SO₄. Adjust volume to 1000.0 ml with distilled water.

Artificial sea water:

NaCl	23.47	g
Na ₂ SO ₄	3.92	g
MgCl ₂ x 6 H ₂ O	10.64	g
CaCl ₂	1.10	g
NaHCO ₃	192.0	mg
KCl	664.0	mg
KBr	96.0	mg
H ₃ BO ₃	26.0	mg
SrCl ₂	24.0	mg
NaF	3.0	mg
Distilled water	1000.0	ml

Vitamin solution (double conc.):

Biotin	4.00	mg
Folic acid	4.00	mg
Pyridoxine-HCl	20.00	mg
Riboflavine	10.00	mg
Thiamine-HCl x 2 H ₂ O	10.00	mg
Nicotinamide	10.00	mg
D-Ca-pantothenate	10.00	mg
Vitamin B ₁₂	0.20	mg
p-Aminobenzoic acid	10.00	mg
Distilled water	1000.00	ml

Store in the dark and cold (5°C).