

1149. OCEANITHERMUS MEDIUM

K ₂ HPO ₄	0.78	g
KH ₂ PO ₄	0.75	g
Trace element solution (see below)(see medium 318)	10.00	ml
Vitamin solution (see below)	10.00	ml
MgCl ₂ x 6 H ₂ O	0.36	g
CaCl ₂ x 2 H ₂ O	0.10	g
NH ₄ Cl ₂	0.53	g
Na ₂ SO ₄	0.14	g
NaCl	20.00	g
Yeast extract	2.00	g
NaNO ₃	1.70	g
Distilled water	1000.00	ml

Prepare the medium without vitamins, boil and cool under a nitrogen:carbon dioxide (80:20 v/v) atmosphere. Vitamins (filter sterilized and stored under nitrogen) and 100 ml 0.6 M NaHCO₃ solution (sterilized and stored under nitrogen) are added from stock solutions.

The pH should be pH 6.5.

Trace element solution:

Nitrilotriacetic acid (NTA)	12.800	g
FeCl ₃ x 6 H ₂ O	1.350	g
MnCl ₂ x 4 H ₂ O	0.100	g
CoCl ₂ x 6 H ₂ O	0.024	g
CaCl ₂ x 2 H ₂ O	0.100	g
ZnCl ₂	0.100	g
CuCl ₂ x 2 H ₂ O	0.025	g
H ₃ BO ₃	0.010	g
Na ₂ MoO ₄ x 2 H ₂ O	0.024	g
NaCl	1.000	g
NiCl ₂ x 6 H ₂ O	0.120	g
Na ₂ SeO ₃ x 5 H ₂ O	0.026	g
Distilled water	1000.000	ml

Vitamin solution:

Biotin	2.000	mg
Folic acid	2.000	mg
Pyridoxine-HCl	10.000	mg

Thiamine-HCl x 2H ₂ O	5.000	mg
Riboflavin	5.000	mg
Nicotinic acid	5.000	mg
D-Ca-pantothenate	5.000	mg
Vitamin B ₁₂	0.100	mg
p-Aminobenzoic acid	5.000	mg
Lipoic acid	5.000	mg
Distilled water	1000.000	ml