

ATCC medium: 1770 *Clostridium halophilum* medium

Solution 1:

NaCl.....	60.0 g
MgSO ₄ . 7H ₂ O	5.0 g
NH ₄ Cl	1.0 g
CaCl ₂ . 2H ₂ O	25.0 mg
Trace Elements Solution SL-10 (see below)	1.0 ml
Wolfe's Vitamin Solution (see below)	10.0 ml
Na ₂ SeO ₃ . 5H ₂ O.....	15.0 mcg
Resazurin.....	1.0 mg
Betaine.....	5.86 g
Yeast extract.....	1.0 g
L-Alanine.....	2.2 g
Distilled water.....	900.0 ml

Solution 2:

NaHCO ₃	5.0 g
Distilled water.....	80.0 ml

Bubble under N₂ for 20 minutes; add to Solution 1.

Solution 3:

K ₂ HPO ₄	358.0 mg
KH ₂ PO ₄	223.0 mg
Distilled water.....	10.0 ml

Autoclave under N₂.

Solution 4:

Na ₂ S . 9H ₂ O	300.0 mg
Distilled water.....	10.0 ml

Autoclave under N₂.

Boil and cool Solution 1 under 80% N₂, 20% CO₂. Add Solution 2. Adjust to pH 8.3 +/- 0.1, tube and autoclave under 80% N₂, 20% CO₂ gas phase. Add Solutions 3 and 4 aseptically to cooled, sterile medium.

Trace Elements Solution SL-10:

HCl (25%)	.....	10.0 ml
FeCl ₂ . 4H ₂ O	.....	1.5 g
ZnCl ₂	.....	70.0 mg
MnCl ₂ . 4H ₂ O	.....	100.0 mg
H ₃ BO ₃	.....	6.0 mg
CoCl ₂ . 6H ₂ O	.....	190.0 mg
CuCl ₂ . 2H ₂ O	.....	2.0 mg
NiCl ₂ . 6H ₂ O	.....	24.0 mg
Na ₂ MoO ₄ . 2H ₂ O	.....	36.0 mg
Distilled water	.....	990.0 ml

Dissolve FeCl₂ in the HCl, dilute with water, add and dissolve the other salts; adjust pH to 6.0 with NaOH, and fill to 1.0 L with distilled water.

Wolfe's Vitamin Solution:

Available from ATCC as a sterile ready-to-use liquid (Vitamin Supplement, catalog no. MD-VS).

Biotin	.....	2.0 mg
Folic acid	.....	2.0 mg
Pyridoxine hydrochloride	.....	10.0 mg
Thiamine . HCl	.....	5.0 mg
Riboflavin	.....	5.0 mg
Nicotinic acid	.....	5.0 mg
Calcium D-(+)-pantothenate	.....	5.0 mg
Vitamin B12	.....	0.1 mg
p-Aminobenzoic acid	.....	5.0 mg
Thioctic acid	.....	5.0 mg
Distilled water	.....	1.0 L