

ATCC medium: 1842 *Sulfurospirillum* medium

Solution A:

KH ₂ PO ₄	1.36 g
MgSO ₄ . 7H ₂ O	0.37 g
CaCl ₂ . 2H ₂ O	0.10 g
NH ₄ Cl	0.27 g
Distilled water.....	953.0 ml

Solution B:

NaHCO ₃	2.0 g
Trace Elements Solution SL-10 (see below).....	2.0 ml
Sodium fumarate.....	4.0 g
Distilled water.....	40.0 ml

Filter-sterilize.

Solution C:

L-Cysteine . HCl.....	0.063 g
Distilled water.....	5.0 ml

Prepare fresh and filter-sterilize. Autoclave Solution A at 121C for 15 minutes. Cool under an atmosphere of 90% N₂, 10% CO₂. Aseptically add Solutions B and C. Adjust medium, if necessary, to pH 7.2 with sterile solutions of 2 M Na₂CO₃ or 2 N HCl.

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 up to 1.0 L.