

ATCC medium: 1927 *Desulfuromonas acetoxidans* medium (DSM 148)

KH₂PO₄1.0 g
NH₄Cl0.5 g
MgSO₄ . 7H₂O0.4 g
CaCl₂ . 2H₂O0.1 g
Trace Element Solution SL-4 (see below).....10.0 ml
Sodium acetate.....0.5 g
Fumaric acid.....1.5 g
Resazurin.....0.5 mg
Distilled water.....950.0 ml

Adjust basal medium to pH 5.0 and autoclave at 121C for 15 minutes. Cool to room temperature and aseptically add the following solutions:

5% NaHCO₃ (freshly autoclaved)40.0 ml
5% Na₂S . 9H₂O (autoclaved under N₂ gas).....6.0 ml
Vitamin Solution (see below).....5.0 ml

Adjust completed medium to pH 7.5 with sterile 2 M Na₂CO₃ or 2 N H₂SO₄ and immediately distribute aseptically into screw cap containers. Fill completely, leaving only a small gas bubble.

Vitamin Solution:

Biotin.....2.5 mg
Nicotinic acid.....25.0 mg
Thiamine . HCl.....12.5 mg
p-Aminobenzoic acid.....12.5 mg
Calcium D-(+)-pantothenate.....6.5 mg
Pyridoxine hydrochloride.....62.5 mg
Distilled water.....1.0 L

Filter-sterilize vitamin solution.

Trace Element Solution SL-4:

EDTA.....0.5 g
FeSO₄ . 7H₂O0.2 g
Trace Elements Solution SL-6 (see below).....100.0 ml
Distilled water.....900.0 ml

Trace Elements Solution SL-6:

ZnSO₄ · 7H₂O0.10 g
MnCl₂ · 4H₂O0.03 g
H₃BO₃0.3 g
CoCl₂ · 6H₂O0.2 g
CuCl₂ · 2H₂O0.01 g
NiCl₂ · 6H₂O0.02 g
Na₂MoO₄ · 2H₂O.....0.03 g
Distilled water.....1.0 L

Adjust final pH of Trace Elements Solution SL-6 to 3.4.