

ATCC medium: 509 *Prosthecomicrobium* and *Ancalomicrobium* medium with nicotinamide

Prepare Medium 289 (see below) as directed with the addition of 5.0 mg of nicotinamide to the Vitamin Solution.

ATCC Medium 289:

Ammonium sulfate.....0.25 g
Glucose.....0.25 g
Vitamin Solution (see below).....10.0 ml
Modified Hutner's Basal Salts (see below).....20.0 ml
Na₂HPO₄0.071 g
Distilled water to.....1.0 L

Vitamin Solution:

Biotin.....2.0 mg
Folic acid.....2.0 mg
Thiamine . HCl.....5.0 mg
Calcium D-(+)-pantothenate...5.0 mg
Vitamin B12.....0.1 mg
Riboflavin.....5.0 mg
Distilled water.....1.0 L

Modified Hutner's Basal Salts:

Nitrilotriacetic acid.....10.0 g
MgSO₄ . 7H₂O29.7 g
CaCl₂ . 2H₂O3.34 g
Ammonium molybdate.....9.25 mg
FeSO₄ . 7H₂O99.0 mg
Metals "44" (see below).....50.0 ml
Distilled water to.....1.0 L

Dissolve and neutralize the nitrilotriacetic acid with KOH (7.3 g); add the other ingredients and adjust the pH to 6.6 - 6.8 before bringing the volume to 1.0 L with distilled water.

Metals "44":

EDTA.....0.25 g
ZnSO₄ . 7H₂O.....1.1 g
FeSO₄ . 7H₂O.....0.5 g
MnSO₄ . 7H₂O.....0.154 g
CuSO₄ . 5H₂O.....0.04 g
Co(NO₃)₂ . 6H₂O.....0.025 g
Na₂B₄O₇ . 10H₂O.....0.018 g
Distilled water.....100.0 ml

Initially add a few drops of H₂SO₄ to the distilled water to retard precipitation.