

ATCC medium: 1057 *Methylococcus* medium

Sodium-Potassium Phosphate Buffer, pH 7.10 (see below).. 6.5 ml
Sodium nitrate solution (20%)..... 10.0 ml
L-F Salts Solution (see below)..... 10.0 ml
Distilled water..... 973.5 ml

Cultivate in an atmosphere of 50% methane, 50% air.

Sodium-Potassium Phosphate Buffer:

KH₂PO₄136.0 g
NaOH.....28.8 g
Distilled water.....1.0 L

L-F Salts Solution:

10% (w/v) MgSO₄ . 7H₂O solution200.0 ml
10% (w/v) CaCl₂ . 2H₂O solution20.0 ml
1% (w/v) ZnSO₄ . 7H₂O solution4.9 ml
1% (w/v) CuSO₄ . 5H₂O solution0.2 ml
1% (w/v) H₃BO₃ solution0.6 ml
1% (w/v) MnSO₄ . H₂O solution0.27 ml
10% (w/v) FeSO₄ solution.....10.0 ml
Distilled water to.....1.0 L

The FeSO₄ solution is either filter-sterilized or acidified with 2% (v/v) HCl prior to autoclaving. For solid medium, add 8.5 g/L of Agar, Noble (BD 214230). For basal medium, grow culture in an atmosphere of 50% methane, 50% air.