

924a. METHANOFOLLIS MB MEDIUM (5 g/l NaCl)

NaCl	5.00	g
MgCl ₂ x 6 H ₂ O	1.00	g
KCl	0.50	g
CaCl ₂ x 2 H ₂ O	0.40	g
K ₂ HPO ₄	0.40	g
NH ₄ Cl	1.00	g
Trace element solution (see medium 141)	10.00	ml
Yeast extract (OXOID)	2.00	g
Trypticase peptone (BD BBL)	2.00	g
Na-resazurin solution (0.1% w/v)	0.50	ml
NaHCO ₃	4.00	g
Vitamin solution (see medium 141)	10.00	ml
Na-formate	6.80	g
L-Cysteine-HCl x H ₂ O	0.25	g
Na ₂ S x 9 H ₂ O	0.25	g
Distilled water	1000.00	ml

Dissolve ingredients (except bicarbonate, vitamins, formate and reducing agents), then sparge medium with 80% N₂ and 20% CO₂ gas mixture for 30 – 45 min to make it anoxic. Add solid bicarbonate, adjust pH to 6.8 - 7.0, dispense medium under 80% N₂ and 20% CO₂ gas atmosphere into anoxic Hungate-type tubes or serum vials and autoclave. Add vitamins (sterilized by filtration), formate, cysteine and sulfide from sterile anoxic stock solutions prepared under 100% N₂ gas. The pH of the complete medium should be 6.5 – 6.8.

For [DSM 14663](#), [DSM 15483](#), [DSM 29354](#) and [DSM 104444](#) supplement medium with 1.60 g/l Na-acetate.

For [DSM 19953](#) omit formate and supplement medium with 1.50 ml/l methanol added from a sterile anoxic stock solution. Adjust pH of complete medium to 7.0.