

1170. METHYLONATRUM MEDIUM

K ₂ HPO ₄	1.00	g
KNO ₃	1.00	g
Na ₂ CO ₃	11.00	g
Methanol	2.00	ml
NaCl	18.00	g
NH ₄ Cl	0.16	g
MgSO ₄ x 7 H ₂ O	0.24	g
NaS ₂ O ₃ x 5 H ₂ O	24.00	mg
Trace elements (SL6, medium 27)	1.00	ml
Vitamin B ₁₂	100.00	mg
Distilled water	1000.00	ml

pH 10.0

Prepare the medium without methanol, vitamin B₁₂, MgSO₄ x 7 H₂O and NaS₂O₃ x 5 H₂O in closed vessels with a medium to headspace ratio of 1:5 to 1:10. Add the methanol, MgSO₄ x 7 H₂O and NaS₂O₃ x 5 H₂O from autoclaved stock solutions after sterilisation of the medium. Vitamin B₁₂ is added from a filter sterilised stock solution to the sterile medium. Incubate the strains with shaking at 150 rpm. Growth is faster in the presence of 20 mM sodium acetate instead of methanol.