

133: CARBON MONOXIDE OXIDIZER MEDIUM

Na ₂ HPO ₄ x 12 H ₂ O	4.50	g
KH ₂ PO ₄	0.75	g
NH ₄ Cl	1.50	g
MgSO ₄ x 7 H ₂ O	0.20	g
CaCl ₂ x 2 H ₂ O	0.03	g
Ferric ammonium citrate	18.00	mg
Trace element solution SL-6	1.00	ml
Na-acetate (optional)	3.00	g
Agar, for solid medium (optional)	12.00	g
Distilled water	1000.00	ml

1. Dissolve ingredients, adjust pH to 7.0 and autoclave.
2. For chemoautotrophic growth incubate under a gas atmosphere of a) 20 - 80% carbon monoxide + 10% O₂ + 70 - 10% N₂ or b) 70% H₂ + 20% O₂ + 10% CO₂ adding 2.50 g NaHCO₃ per liter of medium.
3. For chemoorganotrophic growth add 3.00 g sodium acetate and incubate under air atmosphere.

For DSM 1083: The medium has to be supplemented with 10.00 ml/l of the vitamin solution of medium 141, sterilized by filtration. For chemoorganotrophic growth with acetate under air add also 10.00 ml/l of a 5% w/v NaHCO₃ solution, sterilized by filtration.

For DSM 1085: The medium has to be supplemented with 20.00 µg/l vitamin B₁₂. For chemoorganotrophic growth with acetate under air add also 20.00 ml/l of a 5% w/v NaHCO₃ solution, sterilized by filtration.

For DSM 13294: The medium has to be supplemented with 50.00 µg/l para-aminobenzoic acid. For chemoorganotrophic growth under air add also 2.00 g/l Na-pyruvate and 1.00 g/l yeast extract.

Trace element solution SL-6 (from medium 27)

ZnSO ₄ x 7 H ₂ O	0.10	g
MnCl ₂ x 4 H ₂ O	0.03	g
H ₃ BO ₃	0.30	g
CoCl ₂ x 6 H ₂ O	0.20	g
CuCl ₂ x 2 H ₂ O	0.01	g
NiCl ₂ x 6 H ₂ O	0.02	g
Na ₂ MoO ₄ x 2 H ₂ O	0.03	g
Distilled water	1000.00	ml