133. CARBON MONOXIDE OXIDIZER MEDIUM

Na_2HPO_4 x 12 H_2O	4.50	g
KH_2PO_4	0.75	g
NH_4Cl	1.50	g
$MgSO_4$ x 7 H_2O	0.20	g
$CaCl_2$ x 2 H_2O	0.03	g
Ferric ammonium citrate	18.00	mg
Trace element solution SL-6 (see medium 27)	1.00	ml
Agar (for solid medium)	12.00	g
Distilled water	1000.00	ml

Dissolve ingredients, adjust pH to 7.0 and autoclave.

For *chemoautotrophic growth* incubate under a gas atmosphere of a) 20 - 80% **carbon monoxide** + 10% O_2 + 70 - 10% N_2 or b) 70% H_2 + 20% O_2 + 10% CO_2 adding 2.50 g $NaHCO_3$ per liter of medium.
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 $NaHCO_3$ solution, sterilized by filtration.

For DSM 1085 the medium has to be supplemented with 20.00 µg/l vitamin B_{12}. For chemoorganotrophic growth with acetate under air add also 20.00 ml/l of a 5% w/v $NaHCO_3$ solution, sterilized by filtration.

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