

960. PELOTOMACULUM MEDIUM

KH ₂ PO ₄	0.14	g
MgCl ₂ x 6 H ₂ O	0.20	g
CaCl ₂ x 2 H ₂ O	0.15	g
NH ₄ Cl	0.54	g
Trace element solution (see medium 318)	1.00	ml
Na-resazurin solution (0.1% w/v)	0.50	ml
Na ₂ CO ₃	1.50	g
Vitamin solution (see medium 141)	10.00	ml
Na-pyruvate	2.20	g
Yeast extract (OXOID)	0.10	g
L-Cysteine-HCl x H ₂ O	0.30	g
Na ₂ S x 9 H ₂ O	0.30	g
Distilled water	1000.00	ml

Dissolve ingredients (except carbonate, vitamins, pyruvate, yeast extract and reducing agents) and sparge medium with 80% N₂ and 20% CO₂ gas mixture for 30 – 45 min to make it anoxic. Dispense medium under same gas atmosphere into anoxic Hungate-type tubes or serum vials and autoclave. Add vitamins, pyruvate, yeast extract, cysteine and sulfide from sterile anoxic stock solutions prepared under 100% N₂ gas and carbonate from a sterile anoxic stock solution prepared under 80% N₂ and 20% CO₂ gas atmosphere. Stock solutions of vitamins and pyruvate should be sterilized by filtration. The pH of the complete medium should be 7.0.

Note: Use 10% (v/v) as inokulum.

For [DSM 13752](#) and [DSM 21041](#) replace pyruvate with 0.92 ml/l ethanol.

For [DSM 14795](#) replace pyruvate with 0.86 g/l Na-crotonate.

For [DSM 14947](#) replace pyruvate with 0.72 g/l Na-benzoate.

For [DSM 15200](#), [DSM 15578](#) and [DSM 16145](#) replace pyruvate with 2.00 g/l Na-propionate.

For [DSM 16121](#) replace pyruvate with 1.50 g/l Na-2,5-dihydroxybenzoate.

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For [DSM 16494](#) and [DSM 22288](#) replace pyruvate with 2.72 g/l Na-formate and 0.10 g/l Na-acetate. Supplement medium with 0.08 g/l coenzyme M (2-mercaptoethanesulfonic acid).

For [DSM 17711](#) and [DSM 23604](#) replace pyruvate with 0.10 g/l Na-acetate and pressurize serum vials to 1 bar overpressure with sterile 80% H₂ and 20% CO₂ gas mixture.

For [DSM 17771](#) supplement medium with 1.42 g/l Na₂SO₄ and replace pyruvate with 0.41 g/l 4-hydroxybenzoic acid added from a sterile, neutralized and anoxic stock solution. Increase concentration of yeast extract to 0.20 g/l.

For [DSM 18709](#) and [DSM 26646](#) replace pyruvate with 0.86 g/l Na-crotonate and increase concentration of yeast extract to 0.50 g/l.

For [DSM 24196](#) increase amount of yeast extract to 0.20 g/l and replace pyruvate with 0.18 g/l D-glucose added from an anoxic stock solution sterilized by filtration. Use 5% (v/v) as inoculum.

For [DSM 24202](#) omit yeast extract and replace pyruvate with 0.18 g/l D-glucose added from an anoxic stock solution sterilized by filtration. Use 10% (v/v) as inoculum.

For [DSM 102911](#) increase amount of yeast extract to 0.50 g/l and replace pyruvate with 0.50 g/l Na-acetate added from an anoxic sterile stock solution. Use 5% (v/v) as inoculum.