298: PELOBACTER PROPIONICUS MEDIUM (FRESHWATER)

KH_2PO_4	0.20	g
NH_4Cl	0.25	g
NaCl	1.00	g
$MgCl_2$ x 6 H_2O	0.40	g
KCl	0.50	g
$CaCl_2$ x 2 H_2O	0.15	g
Trace element solution SL-10	1.00	ml
Sodium resazurin (0.1% w/v)	0.50	ml
Na_2CO_3	1.50	g
2,3-butanediol	0.90	g
Na_2S x 9 H_2O	0.36	g
Distilled water	1000.00	ml

1. Dissolve ingredients except carbonate, 2,3-butanediol and sulfide, then sparge medium with 80% N_2 and 20% CO_2 gas mixture for 30 - 45 min to make it anoxic. Dispense medium in anoxic Hungate-type tubes or serum vials under the same gas atmosphere and autoclave. Add 2,3-butanediol and sulfide from sterile anoxic stock solutions prepared under 100% N_2 gas and carbonate from a sterile anoxic stock solution prepared under 80% N_2 and 20% CO_2 gas mixture. Prior to use adjust pH of complete medium to 7.2 - 7.5.

2. Note: Addition of 10 - 20 mg sodium dithionite per liter (e.g. from 5% (w/v) solution freshly prepared under N_2 and filter-sterilized) may stimulate growth of some strains at the beginning.

For DSM 2395: Replace 2,3-butanediol with 1.00 g/l of polyethylene glycol (molecular weight 106 - 20000).

For DSM 3246: Replace 2,3-butanediol with 1.00 g/l acetoin.

For DSM 6652: Replace 2,3-butanediol with 2.60 g/l Na-glutarate and add 20.00 ml/l rumen fluid, clarified (see medium 1310) to the autoclaved medium.

For DSM 6832: Supplement medium with 10.00 ml/l of a Wolin's vitamin solution (see medium 141) and replace 2,3-butanediol by 1.00 g/l of quinic acid added from a neutralized anoxic stock solution.

For DSM 8385: Supplement medium with 1.00 g/l yeast extract and replace 2,3-butanediol by 2.00 g/l D-galactose added from an anoxic stock solution sterilized by filtration.

For DSM 8909: Supplement medium with 1.00 ml/l of seven vitamins solution (see medium 503) and replace 2,3-butanediol by 1.40 g/l triethanolamine hydrochloride added from a 1 M stock solution prepared and autoclaved under 100% N_2 gas).

For DSM 11264: Supplement medium with 0.20 g/l yeast extract and 10.00 ml/l of a Wolin's vitamin solution (see medium 141). Replace 2,3-butanediol by 1.24 g/l ethylene glycol added from a separately sterilized stock solution.

For DSM 17541: Supplement medium with 10.00 ml/l of a Wolin's vitamin solution (see medium 141) and 1.00 ml/l of selenite-tungstate solution (see medium 385).

For DSM 29698: Replace 2,3-butanediol with 2.20 g/l Na-gluconate.

For DSM 102354: Supplement medium with 1.00 ml/l of seven vitamins solution (see medium 503) and replace 2,3-butanediol by 0.86 g/l crotonic acid added after autoclaving from an anoxic sterile stock solution neutralized with NaOH.

For DSM 102355: Supplement medium with 1.00 ml/l of seven vitamins solution (see medium 503) and replace 2,3-butanediol by 1.25 g/l sodium pyruvate added after autoclaving from an anoxic stock solution sterilized by filtration.

Trace element solution SL-10 (from medium 320)

HCl (25%)	10.00	ml
$FeCl_2 \times 4\ H_2O$	1.50	g
$ZnCl_2$	70.00	mg
$MnCl_2 \times 4\ H_2O$	100.00	mg
H_3BO_3	6.00	mg
$CoCl_2 \times 6\ H_2O$	190.00	mg
$CuCl_2 \times 2\ H_2O$	2.00	mg
$NiCl_2 \times 6\ H_2O$	24.00	mg
$Na_2MoO_4 \times 2\ H_2O$	36.00	mg
Distilled water	990.00	ml

First dissolve $FeCl_2$ in the HCl, then dilute in water, add and dissolve the other salts. Finally make up to 1000.00 ml.