104b. PY + X MEDIUM

Trypticase peptone (BD BBL) 5.0 g
Peptone from meat (pepsin-digested) 5.0 g
Yeast extract 10.0 g
Salt solution (see medium 104) 40.0 ml
Na-resazurin solution (0.1% w/v) 0.5 ml
L-Cysteine-HCl x H2O 0.5 g
D-Glucose 5.0 g
Distilled water 1000.0 ml

Dissolve ingredients (except cysteine and glucose) and sparge medium with 100% N₂ gas for 30 – 45 min to make it anoxic. Add cysteine and adjust pH to 7.0, then dispense medium under 100% N₂ gas atmosphere into anoxic Hungate-type tubes or serum vials and autoclave. After autoclaving add glucose or any other substrate from sterile anoxic stock solutions prepared under 100% N₂ gas atmosphere. Adjust pH of complete medium to 6.8 - 7.0, if necessary.

For DSM 1736 replace glucose with 5.0 g/l D-fructose.

For DSM 6555 replace glucose with 5.0 g/l xylan.

For DSM 12857, DSM 13479 and DSM 13480 omit glucose.

For DSM 13181 reduce amount of glucose to 2.0 g/l.

For DSM 19022 replace glucose with 2.0 g/l Na-pyruvate added after autoclaving from an anoxic stock solution sterilized by filtration.

For DSM 19023 and DSM 100431 replace glucose with 5.0 g/l cellobiose added to the autoclaved medium from an anoxic stock solution sterilized by filtration. Adjust pH to 7.4 using a sterile anoxic stock solution of Na₂CO₃ (5% w/v) prepared under 80% N₂ and 20% CO₂ gas atmosphere.

For DSM 21120 replace glucose with 5.0 g/l Na-L-glutamate and supplement medium after autoclaving with 1.0 ml/l of a sterile anoxic stock solution of vitamins (see medium 503).

For DSM 21650 omit glucose and adjust pH to 8.5.

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For DSM 21761 replace glucose with 5.0 g/l D-fructose and adjust pH to \(7.5 - 8.0\).

For DSM 24749 supplement medium with 10.0 g/l NaCl and replace glucose with 5.0 g/l D-fructose. Adjust pH to \(7.3 - 7.5\).

For DSM 26752 adjust pH to \(8.0\) with a sterile anoxic stock solution of \(\text{Na}_2\text{CO}_3\) (5% w/v) prepared under 80% \(\text{N}_2\) and 20% \(\text{CO}_2\) gas atmosphere.

For DSM 27512 and DSM 28090 adjust pH to \(8.5\) with a sterile anoxic stock solution of \(\text{Na}_2\text{CO}_3\) (5% w/v) prepared under 80% \(\text{N}_2\) and 20% \(\text{CO}_2\) gas atmosphere.

For DSM 28571 replace glucose with 1.0 g/l cellobiose added to the autoclaved medium from an anoxic stock solution sterilized by filtration. Adjust pH to \(6.5\).

For DSM 103526 adjust pH of complete medium to \(7.5\).