

## 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 H <sub>2</sub> O	0.5	g
D-Glucose	5.0	g
Distilled water	1000.0	ml

Dissolve ingredients (except cysteine and glucose) and sparge medium with 100% N<sub>2</sub> gas for 30 – 45 min to make it anoxic. Add cysteine and adjust pH to 7.0, then dispense medium under 100% N<sub>2</sub> 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% N<sub>2</sub> 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 14760](#), [DSM 14761](#) and [DSM 14762](#) omit glucose and replace it with 8.0 g/l Na<sub>2</sub>-succinate added after autoclaving from an anoxic stock solution sterilized by filtration.

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 Na<sub>2</sub>CO<sub>3</sub> (5% w/v) prepared under 80% N<sub>2</sub> and 20% CO<sub>2</sub> gas atmosphere

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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**.

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 Na<sub>2</sub>CO<sub>3</sub> (5% w/v) prepared under 80% N<sub>2</sub> and 20% CO<sub>2</sub> gas atmosphere.

For DSM 27512 and DSM 28090 adjust pH to **8.5** with a sterile anoxic stock solution of Na<sub>2</sub>CO<sub>3</sub> (5% w/v) prepared under 80% N<sub>2</sub> and 20% CO<sub>2</sub> 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**.