104b: PY + X MEDIUM

Trypticase peptone (BD BBL) | 5.00 g
Meat peptone (pepsin-digested) | 5.00 g
Yeast extract | 10.00 g
**Salt solution** | 40.00 ml
Sodium resazurin (0.1% w/v) | 0.50 ml
L-Cysteine HCl x H2O | 0.50 g
D-Glucose | 5.00 g
Distilled water | 960.00 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 added after autoclaving from an anoxic stock solution.

For **DSM 6555**: Replace glucose with 5.0 g/l xylan.

For **DSM 12857, DSM 13479, DSM 13480**: Omit glucose.

For **DSM 13181**: Reduce amount of D-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, DSM 100431, DSM 109966**: 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 seven vitamins solution (see medium 503).

For **DSM 21761**: Replace glucose with 5.0 g/l D-fructose added after autoclaving from an anoxic stock solution 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 added after autoclaving from an anoxic stock solution. Adjust pH to 7.3 - 7.5.

For **DSM 26752**: Adjust pH to 8.0 with a sterile anoxic stock solution of Na2CO3 (5% w/v) prepared under 80% N2 and 20% CO2 gas atmosphere.

For **DSM 27512, DSM 28090**: Adjust pH to 8.5 with a sterile anoxic stock solution of Na2CO3 (5% w/v) prepared under 80% N2 and 20% CO2 gas atmosphere.
For DSM 28287: Plus 30 mM Lysine, and vitamin mixture as indicated in medium 141; anaerobic

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.

For DSM 106750: Replace glucose by fructose (5g/L); strictly anaerobic

For DSM 107697, DSM 107698: Replace glucose with 8.0 g/l Na₂-succinate added after autoclaving from an anoxic stock solution sterilized by filtration.

**Salt solution** (from medium 104)

<table>
<thead>
<tr>
<th>Compounds</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>CaCl₂ x 2 H₂O</td>
<td>0.25 g</td>
</tr>
<tr>
<td>MgSO₄ x 7 H₂O</td>
<td>0.50 g</td>
</tr>
<tr>
<td>K₂HPO₄</td>
<td>1.00 g</td>
</tr>
<tr>
<td>KH₂PO₄</td>
<td>1.00 g</td>
</tr>
<tr>
<td>NaHCO₃</td>
<td>10.00 g</td>
</tr>
<tr>
<td>NaCl</td>
<td>2.00 g</td>
</tr>
<tr>
<td>Distilled water</td>
<td>1000.00 ml</td>
</tr>
</tbody>
</table>