

339. WILKINS-CHALGREN ANAEROBE BROTH

Dissolve 33.0 g/l dehydrated Wilkins-Chalgren medium (Oxoid CM0643) in distilled water and add 0.5 ml/l Na-resazurin solution (0.1% w/v), bring to the boil and cool to room temperature while sparging with 100% N₂ gas. Add L-cysteine-HCL x H₂O (0.3 g/l), dispense the medium under same gas atmosphere into anoxic Hungate-type tubes or serum vials and autoclave. After autoclaving check pH and adjust to pH 6.8 – 7.0, if necessary.

Note: In case resazurin is not colourless addition of 10 - 20 mg sodium dithionite per liter (e.g. from 5% (w/v) solution, freshly prepared under N₂ and filter-sterilized) can be used to completely reduce the medium.

For [DSM 5676](#) supplement medium after autoclaving with 10.0 g/l D-glucose added from a sterile stock solution.

For [DSM 12679](#) and [DSM 12858](#) use medium at half-strength (16.5 g/l).

For [DSM 14204](#) supplement medium after autoclaving with 5.0 g/l D-glucose and 2.0 g/l NaHCO₃ added from sterile stock solutions prepared under 100% N₂ or 80% N₂ and 20% CO₂ gas atmosphere, respectively. Adjust pH to 7.0 - 7.2, if necessary.

For [DSM 23669](#) supplement medium after autoclaving with 0.2 g/l dithiothreitol (DTT) added from a filter-sterilized anoxic stock solution and adjust pH of complete medium to 7.4.

For [DSM 100423](#) adjust pH of complete medium to 7.4.