

## 500. CLOSTRIDIUM (GV) MEDIUM

|   |         |    |
|---|---------|----|
| K <sub>2</sub> HPO <sub>4</sub>   | 0.35    | g  |
| KH <sub>2</sub> PO <sub>4</sub>   | 0.23    | g  |
| NH <sub>4</sub> Cl  | 0.50    | g  |
| NaCl  | 2.25    | g  |
| FeSO <sub>4</sub> x 7 H <sub>2</sub> O solution (0.1% w/v in 0.1 N H <sub>2</sub> SO <sub>4</sub> ) | 2.00    | ml |
| Trace element solution SL-10 (see medium 320)   | 1.00    | ml |
| Selenite-tungstate solution (see medium 385)  | 1.00    | ml |
| Yeast extract   | 1.00    | g  |
| Na-resazurin solution (0.1% w/v)  | 0.50    | ml |
| NaHCO <sub>3</sub>  | 3.00    | g  |
| MgSO <sub>4</sub> x 7 H <sub>2</sub> O  | 0.50    | g  |
| CaCl <sub>2</sub> x 2 H <sub>2</sub> O  | 0.25    | g  |
| D-Glucose   | 5.00    | g  |
| Vitamin solution (see medium 141)   | 10.00   | ml |
| L-Cysteine-HCl x H <sub>2</sub> O   | 0.30    | g  |
| Na <sub>2</sub> S x 9 H <sub>2</sub> O  | 0.30    | g  |
| Distilled water   | 1000.00 | ml |

Dissolve ingredients (except bicarbonate, magnesium sulfate, calcium chloride, glucose, vitamins, cysteine and sulfide), then sparge medium with 80% N<sub>2</sub> and 20% CO<sub>2</sub> gas mixture for 30 – 45 min to make it anoxic. Add and dissolve bicarbonate, adjust pH to 7.0, dispense under 80% N<sub>2</sub> and 20% CO<sub>2</sub> gas atmosphere into anoxic Hungate-type tubes or serum vials and autoclave. After sterilization add magnesium sulfate, calcium chloride, glucose, cysteine and sulfide from sterile anoxic stock solutions autoclaved under 100% N<sub>2</sub> gas. Vitamins are prepared under 100% N<sub>2</sub> gas atmosphere and sterilized by filtration. Adjust pH of the complete medium to 7.0 - 7.2, if necessary.

For [DSM 5704](#) replace glucose with 2.00 g/l of sodium crotonate.

For [DSM 6222](#) replace glucose with 6.00 g/l of trisodium citrate.

For [DSM 6268](#) replace glucose with 5.00 g/l of disodium L(+)-tartrate.

For [DSM 9179](#) adjust pH of complete medium to 6.5 – 6.7.

For [DSM 9187](#) and [DSM 10612](#) reduce amount of glucose to 2.00 g/l.