

500. CLOSTRIDIUM (GV) MEDIUM

K ₂ HPO ₄	0.35	g
KH ₂ PO ₄	0.23	g
NH ₄ Cl	0.50	g
NaCl	2.25	g
FeSO ₄ x 7 H ₂ O solution (0.1% w/v in 0.1 N H ₂ SO ₄)	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 ₃	3.00	g
MgSO ₄ x 7 H ₂ O	0.50	g
CaCl ₂ x 2 H ₂ O	0.25	g
D-Glucose	5.00	g
Vitamin solution (see medium 141)	10.00	ml
L-Cysteine-HCl x H ₂ O	0.30	g
Na ₂ S x 9 H ₂ 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% N₂ and 20% CO₂ gas mixture for 30 – 45 min to make it anoxic. Add and dissolve bicarbonate, adjust pH to 7.0, dispense under 80% N₂ and 20% CO₂ 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% N₂ gas. Vitamins are prepared under 100% N₂ 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.