

915. BLAUTIA MEDIUM

K ₂ HPO ₄	0.30	g
KH ₂ PO ₄	0.30	g
(NH ₄) ₂ SO ₄	0.30	g
NH ₄ Cl	1.00	g
NaCl	0.61	g
MgSO ₄ x 7 H ₂ O	0.12	g
CaCl ₂ x 2 H ₂ O	0.08	g
Trace element solution (see medium 141)	10.00	ml
Rumen fluid, clarified (see medium 1310)	100.00	ml
Yeast extract	2.00	g
Na-resazurin solution (0.1% w/v)	0.50	ml
NaHCO ₃	7.50	g
D-Glucose	5.00	g
Vitamin solution (see medium 141)	20.00	ml
L-Cysteine-HCl x H ₂ O	0.45	g
Na ₂ S x 9 H ₂ O	0.45	g
Distilled water	900.00	ml

Dissolve ingredients (except bicarbonate, glucose, vitamins and reducing agents), then sparge medium with 100% CO₂ gas for 30 – 45 min to make it anoxic. Add solid bicarbonate, adjust pH to 6.8 - 7.0 and dispense medium under 100% CO₂ gas atmosphere into anoxic Hungate-type tubes or serum vials and autoclave. Add glucose, vitamins (sterilized by filtration), cysteine and sulfide from sterile anoxic stock solutions prepared under 100% N₂ gas. The final pH of the medium should be 7.0.

For [DSM 14465](#) and [DSM 14466](#) supplement medium with 0.50 g/l sodium formate.

For [DSM 14469](#) omit yeast extract from the medium and add 2.00 g/l Trypticase peptone (BD BBL), 2.50 g/l sodium acetate and 2.50 g/l sodium formate.