

704. BUTYRIVIBRIO SP. MEDIUM

Mineral solution (see medium 330)	75.00	ml
Rumen fluid, clarified (see medium 1310)	150.00	ml
K ₂ HPO ₄	0.30	g
Trypticase peptone (BD BBL)	2.00	g
Yeast extract (OXOID)	2.00	g
Volatile fatty acid mixture (see medium 330)	3.10	ml
Haemin solution (0.05% w/v, see medium 104)	2.00	ml
Glycerol	0.50	g
Na-resazurin solution (0.1% w/v)	0.50	ml
Na ₂ CO ₃	4.00	g
D-Glucose	1.00	g
Maltose	1.00	g
Cellobiose	1.00	g
Starch, soluble	1.00	g
L-Cysteine-HCl x H ₂ O	0.25	g
Na ₂ S x 9 H ₂ O	0.25	g
Distilled water	770.00	ml

Dissolve ingredients (except carbonate, carbohydrates, cysteine and sulfide) and sparge medium with 100% CO₂ gas for 30 – 45 min to make it anoxic. Add the carbonate and equilibrate the medium with the CO₂ gas to pH 6.8. Distribute under 100% CO₂ gas atmosphere into anoxic Hungate-type tubes or serum vials and autoclave. Thereafter, add glucose, maltose, cellobiose, starch, cysteine and sulfide from sterile anoxic stock solutions prepared under 100% N₂ gas. Cellobiose should be sterilized by filtration. Adjust pH of complete medium to 6.7 - 6.8, if necessary.