

1668: MDM (modified dehority medium)

This recipe contains strain-specific modifications for *Fibrobacter intestinalis* DSM 104697 *

Final pH: 6.8

Final volume: 500 ml

Yeast extract	0.50	g
Tryptone	0.50	g
Stock A: Salt solution 2x (50 ml stock per 100 ml medium)	250.00	ml
Stock B: Salt solution 200x (0,5 ml stock per 100 ml medium)	250.00	ml
Distilled water	250.00	ml
L-Cysteine HCl	1.00	g/l

To make medium anoxic boil it, cool under N₂CO₂ gas atmosphere, add 1 g/l L-cysteine hydrochloride and adjust pH to 6.8. Finally gas over with N₂. Dispense under N₂CO₂ into suitable vessels for anaerobic growth (serum bottles or Hungate tubes sealed with rubber stoppers) and sterilize by autoclaving.

* For 10 ml in hungate tube, add: Vitamin solution 5-10 µl, Rumen fluid 500 µl, Cellobiose (10%) 200 µl, CM-Mix 500 µl and Vitamin K₁ solution 5-10 µl

Vitamin solution

Biotin	2.00	mg
Folic acid	2.00	mg
Pyridoxine hydrochloride	10.00	mg
Thiamine-HCl x 2 H ₂ O	5.00	mg
Riboflavin	5.00	mg
Nicotinic acid	5.00	mg
D-Calcium pantothenate	5.00	mg
Vitamin B ₁₂	0.10	mg
p-Aminobenzoic acid	5.00	mg
Lipoic acid	5.00	mg
Distilled water	1000.00	ml

Filter sterilize and make anoxic with N₂.

Cellobiose (10%)

Distilled water	100.00	ml
Cellobiose	10.00	g

Mix 10 g cellobiose with 100 ml distilled water and filter sterilize, make anoxic with N₂.

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CM-Mix (only for DSM 104697)

D-Glucose	4.00	g
Cellobiose	1.00	g
Maltose	1.00	g
Starch (soluble)	1.00	g
Distilled water	1000.00	ml

Make anoxic with N₂.

Vitamin K₁ solution (only for DSM 104697)

Ethanol (95 %)	20.00	ml
Vitamin K ₁	0.10	ml

Dissolve 0.1 ml of vitamin K₁ in 20 ml 95% ethanol and filter sterilize. Make anoxic with N₂. Store refrigerated in a brown bottle.

Stock A: Salt solution 2x (50 ml stock per 100 ml medium)

K ₂ HPO ₄	6804.00	mg
NaHCO ₃	6721.00	mg
NaCl	4675.00	mg
NH ₄ Cl	1605.00	mg
CaCl ₂	89.00	mg
MgCl ₂	95.00	mg
FeSO ₄ x 7 H ₂ O	28.00	mg
Distilled water	1000.00	ml

Stock B: Salt solution 200x (0,5 ml stock per 100 ml medium)

MgCl ₂ x 2 H ₂ O	971.00	mg
ZnCl ₂	273.00	mg
CoCl ₂	104.00	mg
Na ₂ MoO ₄ x 2 H ₂ O	48.00	mg
Na ₂ SeO ₃	35.00	mg
NiCl ₂ x 6 H ₂ O	237.00	mg
Na ₂ WO ₄ x 2 H ₂ O	66.00	mg
Distilled water	1000.00	ml