

640. CALDICELLULOSIRUPTOR MEDIUM

NH ₄ Cl	0.90	g
NaCl	0.90	g
MgCl ₂ x 6 H ₂ O	0.40	g
KH ₂ PO ₄	0.75	g
K ₂ HPO ₄	1.50	g
Trypticase peptone (BD BBL)	2.00	g
Yeast extract (OXOID)	1.00	g
Trace element solution SL-10 (see medium 320)	1.00	ml
FeCl ₃ x 6 H ₂ O solution (0.1% w/v in 0.2 N HCl)	2.50	ml
Na-resazurin solution (0.1% w/v)	0.50	ml
L-Cysteine-HCl x H ₂ O	0.75	g
Cellobiose	1.00	g
Distilled water	1000.00	ml

Dissolve ingredients except cysteine and cellobiose. Sparge medium with 100% N₂ gas for 30 – 45 min to make it anoxic, then add cysteine and adjust pH to 7.2. Distribute medium under same gas atmosphere into anoxic Hungate-type tubes or serum vials and autoclave. Add cellobiose after autoclaving from an anoxic stock solution prepared under 100% N₂ gas atmosphere and sterilized by filtration. Adjust pH of the complete medium to 7.2, if necessary.

For [DSM 8685](#), [DSM 8691](#), [DSM 8692](#) and [DSM 10170](#) replace cellobiose with 5.00 g/l D-xylose added to the autoclaved medium from an anoxic stock solution sterilized by filtration. Adjust pH of the complete medium to **5.2 - 5.4!**

For [DSM 10319](#), [DSM 11055](#), [DSM 11056](#), [DSM 11057](#), [DSM 11426](#), [DSM 22141](#) and [DSM 101588](#) replace cellobiose with 5.00 g/l D-glucose added to the autoclaved medium from a sterile anoxic stock solution.

For [DSM 13528](#) replace cellobiose with 5.00 g/l D-fructose added to the autoclaved medium from a sterile anoxic stock solution. Adjust pH of the complete medium to **6.0!**

For [DSM 16488](#) and [DSM 24455](#) replace cellobiose with 2.00 g/l D-glucose added to the autoclaved medium from a sterile anoxic stock solution.

For [DSM 22658](#) replace cellobiose with 5.00 g/l D-fructose added to the autoclaved medium from a sterile anoxic stock solution.

Continued next page

For DSM 24750 replace cellobiose with 2.00 g/l Na-pyruvate added to the autoclaved medium from an anoxic stock solution sterilized by filtration.