

Media for freezing homogenised faecal samples for re-cultivation / FMT

Burz SD, Abraham AL, Fonseca F, David O, Chapron A, Béguet-Crespel F, Cénard S, Le Roux K, Patrascu O, Levenez F, Schwintner C, Blottière HM, Béra-Maillet C, Lepage P, Doré J, Juste C. A Guide for Ex Vivo Handling and Storage of Stool Samples Intended for Fecal Microbiota Transplantation. *Sci Rep.* 2019 Jun 20;9(1):8897. doi: 10.1038/s41598-019-45173-4. PMID: 31222022; PMCID: PMC6586871.

Ingredients:

Maltodextrin
Trehalose
L-Cystein
Ascorbic acid
NaCl
Water (MQ/DEPC)

1. Make normal saline: 9.0 g/L NaCl
2. Dissolve Maltodextrin and Trehalose in normal saline at 40 °C, to respective final concentrations of 18.75% and 6.25% (w/v; 1% = 1 g/100 mL). Add 0.5% (w/v) Ascorbic acid and 0.05% L-Cystein (w/v).

For 100 mL:

18.75 g	Maltodextrin
6.25 g	Trehalose
0.5 g	Ascorbic acid
0.05 g	L-Cystein

3. Filter sterilize (PES Membrane, 0.22 µm)
 4. Import into Anabox (2 days before use; keep lid ajar to allow for gas exchange)
 5. Put robber stopper and close with screw cap; export from Anabox
- ➔ take out needed amount of medium for sample preparation (see separate protocol “Biobank of human stool samples - sample processing.docx”) with syringe
 - ➔ Ratio: 4 mL of media + 1 g of stool sample