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Making Freezing Solution

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1 Works for me

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ABSTRACT

The freezing solution can be made in advance and stored in sterile containers at room temperature till needed.

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Steps

- 1 Book the autoclave beforehand
- Make $0.05M K_2HPO_4$ by dissolving 8.71g of K_2HPO_4 in 1L of DIW
- 3 Make 0.05M KH_2PO_4 by dissolving 6.80g of KH_2PO_4 in 1L of DIW
- Make S Buffer solution by adding the following:
 129 ml 0.05 M K₂HPO₄
 871 ml 0.05 M KH₂PO₄
 5.85 q NaCl
- $5 \qquad \text{Make the freezing solution by adding the S buffer to 30\% glycerol (v/v):} \\$

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Just add 700ml of S buffer to 300ml of glycerol to get the desired concentration

- 6 Autoclave the mixture. (Aliquoting first is not advised due to handling issues upon adding glycerol)
- 7 After autoclaving, aliquot into sterile 200ml bottles labelled with the name and date of the solution prepared.

Notes

- 8 Before using the freezing solution always check the bottle for any growth/contaminants
- 9 Discard the bottle if you see any contaminants and open a new one
- 10 Aliquot into falcon tubes from 200ml bottles to reduce contamination. Discard the tube after freezing do not put the contents back to the 200ml bottle!