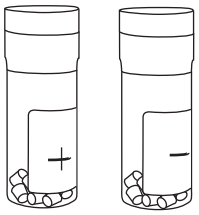
E3 Epower™ microorganisms make water testing easy. Choose a positive and a negative control for membrane filtration (see TIB.187 for a list of suggested organisms). The positive control will yield between 10 and 100 colonies if the instructions below are followed.

Illustrated Instructions

For Water Testing using the Membrane Filtration Method

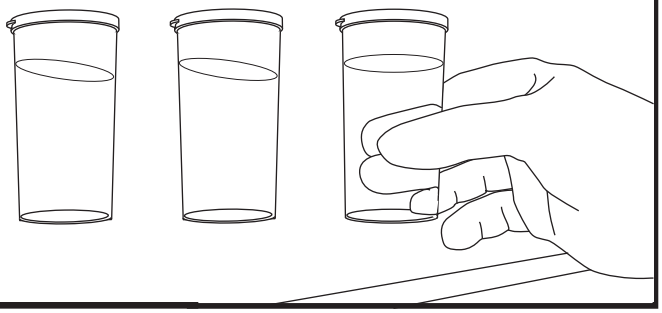
1



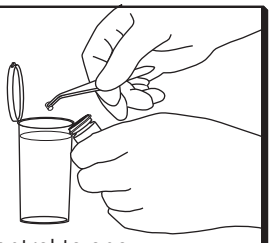
Allow unopened vials of lyophilized pellets (positive and negative controls) to equilibrate to room temperature

2

While the pellets are equilibrating, pre-warm three 99 mL phosphate buffer or sterile water blanks to 35°C (Approximately one hour).



3

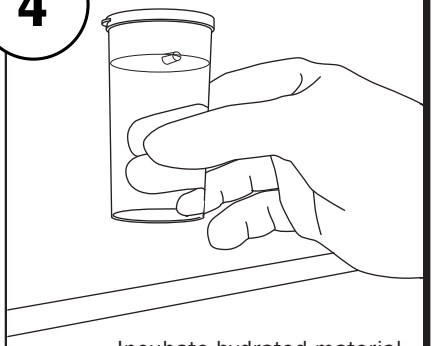


With a sterile forceps, transfer one pellet of the positive control to one of the blanks and one pellet of the negative control to another blank. Label appropriately.

Do not remove the desiccants.

Immediately stopper and recap the vials.

4

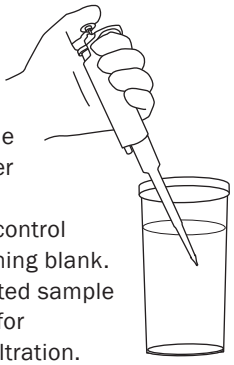


Incubate hydrated material at 35°C for 30 minutes.

5

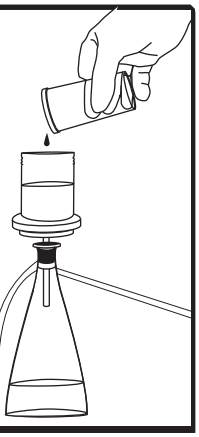
Mix each container of hydrated material until a homogeneous suspension is achieved. The negative control is ready to be filtered.

6



Using a sterile pipet, transfer 1.0 mL from the positive control to the remaining blank. Mix. The diluted sample will be used for membrane filtration.

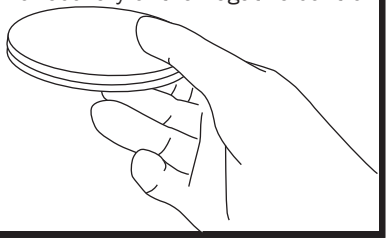
7



Perform membrane filtration on both of the controls according to protocol.

8

Transfer the filter an agar plate. Incubate according to testing SOP. Recovery of the positive control will be 10-100 CFUs. There will be no recovery of the negative control.



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