

Rapid Microbial Filtration test for Water samples

1. Apparatus for a microbial enumeration test in potable water samples



Test Procedure.

1. Collect 50 - 100 ml water sample in the sample container (Red Lid) using aseptic technique.
2. Remove the syringe from its packaging but **Do NOT touch the bottom of the syringe**. Take a 50 ml amount from the collected sample by submerging the tip of the syringe in the sample and withdraw the plunger slowly and firmly.
Tip; ensure that the lower meniscus of the liquid is on the 50 ml graduation mark on the syringe.
3. Carefully remove the blue stopper on the filter housing (this is the upper side of the filter with the grid marks of the filter), and insert the syringe firmly into the connector.
4. Carefully remove the red stopper on the filter housing (this is the lower side of the filter)
5. Use two hands to hold both the syringe and the attached filter over a waste container, then slowly and firmly depress the plunger of the syringe to expel the sample through the filter.
6. Wait for 30 minutes to allow the micro-organisms to recover from the stress of filtration. This will minimise variation between samples and produce more consistent accurate results.
7. Remove the filter from the syringe and discard the syringe.
8. Carefully hold the filter housing in the finger tips from the lower side such that the finger tips are as low as possible and do not project above the mid line.
9. Prise apart the top and bottom parts of the filter unit to expose the filter surface.
Do NOT touch the surface of the filter.
10. Using the Ultrasnap swab, carefully collect the filtered materials by swabbing the entire surface of the filter two or three times.
Ensure that;
 - the entire surface of the filter is swabbed
 - the swab does not touch the fingers.
11. Replace the swab into the swab tube and activate the Ultrasnap swab using the snap and squeeze action and place it into the systemSURE II instrument and start the measurement.
12. Record the result.

NB Filters, syringes and sample containers are supplied sterile and are designed for single use. Do not reuse.