

INSTRUCTIONS FOR USE

MPA001

µPREP™ Filter Unit

Unit for the filter-sterilisation of water for use with Lab M µPREP™ bags.

Presentation: This kit contains 1 non-sterile µPREP™ Filter Unit.

Contents: 1 x µPREP™ Filter Unit (non-sterile)

Materials required but not provided

1. µPREP™ bag
2. MPA002 µPREP™ Quick Connectors
3. Sterile tubing
4. Reverse Osmosis (RO) or deionised water source
5. Peristaltic pump

Storage: 10-25°C

Product Performance and Limitations

Performance is guaranteed as long as manufacturer's guidelines are followed. Aseptic technique must be observed during reconstitution and use.

MPA001 µPREP™ Filter Unit must be sterilised before use. The MPA001 µPREP™ filter unit may be autoclaved and reused; usage should be recorded and the filter discarded after 100 litres or 5 filled bags. If the flow rate is greatly reduced at any time, the filter should be discarded and replaced.

Restrictions on Use

This product is sold for use only in the following fields: food, animal feed, beverages, pharmaceuticals or environmental. This product is not sold for use with human clinical or veterinary material and is not designed for human or therapeutic procedures.

Suggested protocol for use of Lab M MPA001 µPREP™ Filter Unit

1. The MPA001 µPREP™ Filter Unit should be sterilised before first use.
2. Prepare a sterile MPA001 µPREP™ Filter Unit, ensuring any kinks in the tubing are removed. Remove µPREP™ bag and attachments carefully from the outer bag. Unfold the µPREP™ bag.
3. Aseptically remove the white cap from the white MPA001 µPREP™ Filter Unit tubing connector and the black cap from the black µPREP™ bag tubing connector. Retain both caps aseptically for later use.
4. Attach the white MPA001 Filter Unit connector to the black µPREP™ bag connector.
5. Prepare a tube, running from a 20 litre RO/deionised water source via peristaltic pump. For best results, prime the tubing to remove excess air before connecting to the filter unit via the barb (push on connection). Prime the pump on a slow setting initially to allow time for adequate removal of trapped air (step 5).

(continued overleaf)

6. Before activating the pump to commence filling, release the slide clamp on the µPREP™ bag tubing and note:

for optimum filter performance, it is recommended that the filter be held at a 45° angle (with screw valve to be in the uppermost position) thus allowing full expulsion of air from the device. To prevent build up of pressure upon commencement of filling, slowly turn the screw valve on the side of the capsule filter to release trapped air from the filter unit. Do NOT fully remove the screw. N.B. Purging air and filling of filter unit with water happens rapidly. Ensure the screw is securely tightened after releasing the air to avoid water leaks.

The speed of the peristaltic pump may then be increased.

7. During filling, tubing should be monitored for build up of pressure which can be identified by the tubing between the peristaltic pump and filter becoming rigid. Ensure the water supply does not run dry during filling – any air pumped into the filter unit will cause a build up of pressure within the connected systems.
8. Once the bag has been filled with 20 litre RO/deionised water, turn off the pump. To drain any remaining water from the tubing into the bag, it may be necessary to gently squeeze the bag to force air into the tubing, alternatively, the tubing may be elevated and squeezed. The slide clamp should then be applied. It is recommended that the slide clamp be applied near to the bag rather than connector end of the tubing. At this point, the connectors should be unscrewed and caps reapplied.
9. Remove the filter unit and reattach the cap. The filter unit may be autoclaved and reused; record the usage of the filter and discard after 100 litres or 5 filled bags. If the flow rate is greatly reduced at any time, the filter should be discarded and replaced.