

Technical Data Sheet

LETZTEST Portable

Membrane Filtration Kit (PMF-Kit)

Quantifies *E. coli* per 100 mL in water samples following DIN EN ISO 9308-1 and many more fecal indicator bacteria if requested.



Description

Quantify *E.coli* and other faecal bacteria in water samples closely following DIN EN ISO 9308-1, in remote places. The LETZTEST Portable Membrane Filtration Kit (PMF-Kit) is perfectly suited to the requirements of a water testing laboratory under limited conditions: (i) robust, (ii) non-electrical, (iii) easy to transport, (iv) easy to use, (v) independent of inappropriate consumables, (vi) less prone to human error.



Figure 1 – The LETZTEST Portable Membrane Filtration Kit is part of the complete portable water microbiology laboratory by LETZTEST

Specifications

- Art. no.: 115433 (English); 118193 (French); 1155 (Arabic); 118297 (Spanish)
- Form: Hard-shell case
- Dimension: 450 x 360 x 175 mm
- Weight: 8,6 kg
- Together with the [LETZTEST Electricity-Free Incubator](#) and [water sampler](#) this kit becomes a complete portable microbiological water laboratory.
- Waterproof: Yes.
- Sample type: drinking water. Suitable for chlorinated and non-chlorinated water samples.
- Quantifies: Escherichia coli in water.
- Detection limit: 1 cfu / 100 ml
- Suggested culture medium with the Kit: Our Compact Dry dehydrated culture plates.
- Advantage: The same kit can be used to quantify other relevant bacteria in water such as *E.coli* and other coliform bacteria, enterococcus, pseudomonas aeruginosa, heterotrophic bacteria, total count bacteria and many more.
- Storage of dehydrated culture plates: storage at 0 - 30 °C, for 2 years.
- Incubation: 24 h at 37 °C
- Waste disposal: Used chromogenic plates should be autoclaved before disposal in a suitable circuit otherwise incinerated.

Content of kit

- QR codes in the kit leading to a LETZTEST training video
- QR code leading to direct technical support for end users via WhatsApp by LETZTEST
- Easy understandable, illustrated instruction manual - waterproof and (re)writable; 1pc
- Membrane filtration unit - stainless steel; 1pc
- Portable laboratory table - stainless steel; 1pc
- Manual vacuum pump; 1pc
- 250 ml spray bottle (for sterile water); 1pc
- 100 ml bottle (for ethanol>70%); 1pc
- Multi-purpose bottle - stainless steel (e.g. for more volume after filtration); 1pc

- Laboratory alcohol candle - stainless steel; 1pc
- Container for sterile water - stainless steel; 1pc
- Ethanol container - stainless steel; 1pc
- 1 ml spoon - stainless steel; 1pc
- Flat headed tweezers - stainless steel; 1pc
- Waterproof pen; 1pc
- Membrane filters; 100 pcs
- Dehydrated culture plates Compact Dry (E.coli); 32 pcs
- Thio Bags (100ml) pre-sterilised and with a thiosulphate tablet; 25pcs
- Spare parts. Given the robustness of all components it is unlikely that parts break. But in case this does happen, you don't have to wait for spare parts.
 - Spare valves for manual vacuum pump; 2 pcs.
 - EPDM seal ring for membrane filtration unit; 1 pc

Consumables

Reorder consumables via info@letz-test.com. Please note that you can purchase all consumables independently from LETZTEST. However, LETZTEST offers you the best possible price and guarantees a very fast and economical delivery.

- Dehydrated culture plates Compact Dry
 - Shelf life: 2 years, 1 - 30°C without cooling
 - NordVal International certified, AOAC certified
- Thio Bags (100ml) pre-sterilised and with a thiosulphate tablet
 - Shelf life: No expiration date, no cooling required!
 - Complies with EPA and APHA requirements
- Membrane filters
 - Shelf life: 4 years, no cooling required
 - For bacteriological analysis of water by the ISO 9308-1 membrane filtration method

Production

100% made in Germany. Originating from [Letzner Pharmawasseraufbereitung GmbH](#) (now EnviroFALK PharmaWaterSystems), LETZTEST is a company that places great importance on the quality of its equipment. Intermediate production steps and finished products are checked against specified release criteria.



HIGH QUALITY
MADE IN GERMANY

Participants in the development of the product

The improved conceptual design of this LETZTEST kit is the result of collaboration with the [Laboratoire d'Analyse et de Contrôle de la Qualité de l'Eau \(LACQUE\) from Côte d'Ivoire](#). Together, we are pursuing the goal of making water quality monitoring an easy experience for drinking water stakeholders in remote places around the world.

Additional Support

The **waterproof and (re)writable illustrated instruction manual** helps you to carry out water analysis from A to Z in a simple way and in accordance with international standards. It helps you to ensure the validity of your results.

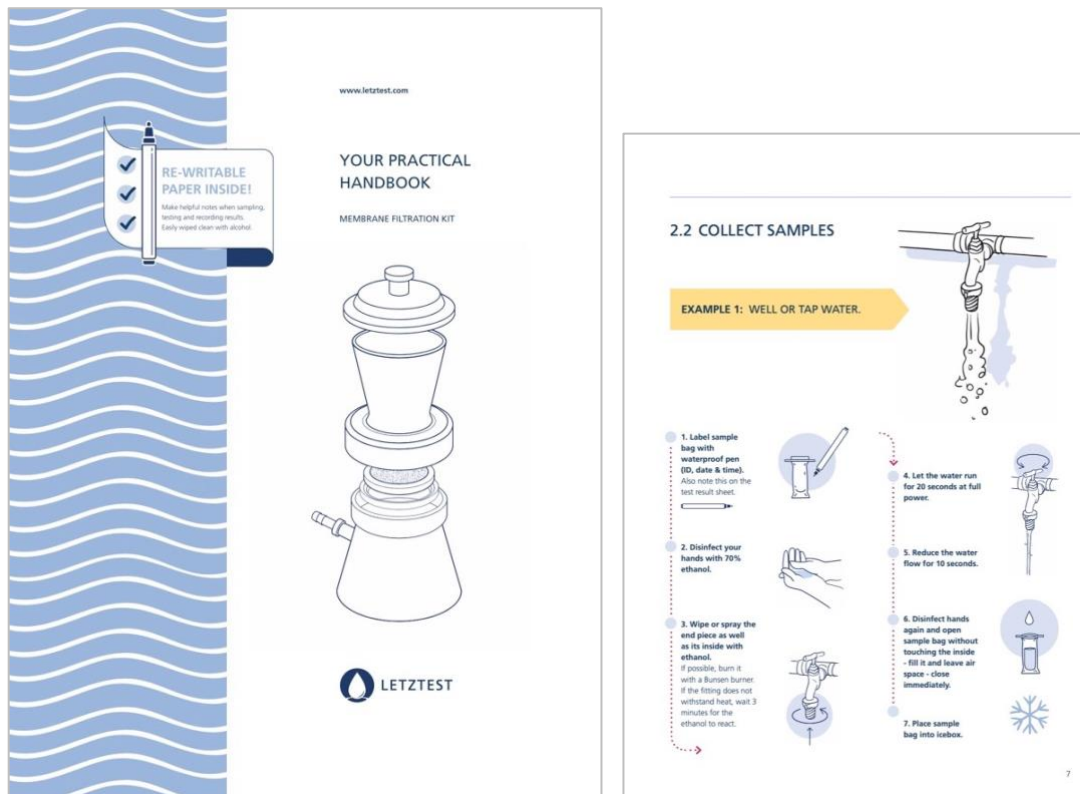


Figure 2 - The illustrated instruction manual - waterproof and (re)writable

Each kit contains a QR code that leads to a [practical training video](#). In case of further questions, the end user can also directly and easily contact a LETZTEST technician via a second QR code.



Figure 3 – A QR code in each kit leads you to a training video

The **BactLAB App** allows you to read the results of your tests in one second using the camera of your smartphone, for free!



Figure 4 - The BactLAB App allows you to read your result in one second

Photos

