

## Technical Data Sheet

# Laboratory Membrane Filtration Kit

The Big Microbiological Water Laboratory to quantify *E.coli* per 100 mL in water samples following DIN EN ISO 9308-1 and many more fecal indicator bacteria if requested.



# Description

A complete and professional microbiological water laboratory, designed for high-capacity sample processing to quantify E. coli and other fecal indicator bacteria per 100 ml in water samples, compliant with DIN EN ISO 9308-1 standard. This kit is ideal for central and remote water laboratories with large sample volumes per day, offering portability for setting up efficient project laboratories in remote areas. It can continue operating in the event of a power failure, and it allows for exceptionally low running costs with end-user flexibility for consumables. For your independence and optimal results, pair it with the [LETZTEST Big Electricity-Free Incubator](#).



Figure 1 – The LETZTEST Laboratory Membrane Filtration Kit is a complete microbiological water laboratory for your remote and cost-efficient water lab with larger sample volumes per day.

## Specifications

- Art. no.: 1094
- Form: Hard-shell case
- Dimension: 690 x 530 x 285 mm
- Case specifications: made of sturdy polypropylene material, easy transport by air, waterproof and impact resistant, temperature stable from -20°C to +75°C, device for padlock (delivery without lock), including robust wheels (exchangeable) and trolley handle.
- Weight: 24 kg
- Sample type: water samples
- Quantifies: Escherichia coli and other coliform bacteria in water according to ISO 9308-1: 2014 standard. Advantage: The same kit can be used to quantify other relevant bacteria in water such as enterococcus, pseudomonas aeruginosa, heterotrophic bacteria, total count bacteria and many more.
- Detection limit: 1 cfu / 100 ml
- Sterilization: Flame or autoclave
- Storage & shelf-life: Compact DRY Plates and ChroMedium Coliform Agar - 500g: storage at room temperature, shelf life of two years.
- Waste disposal: Used microbiological nutrient media should be autoclaved before disposal in a suitable circuit otherwise incinerated.

## Content

- LETZTEST 3-branch Manifold with 100ml capacity per funnel – stainless steel; 1pc
- LABOPORT N96 - electric laboratory vacuum pump – made in Germany; 1pc  
Very compact, chemical-resistant, and oil-free diaphragm vacuum pump. The flow rate can be adapted to the corresponding application. Equipped with a PPS pump head, a PTFE-coated diaphragm and FKM valves. It can be used for many laboratory applications.
  - Robust
  - Delivery rate (max.): 7 l/min
  - Ultimate vacuum (max.): 130 mbar (abs.)
  - Infinitely variable speed control
  - Exceptional ease of use
  - Small footprint to save valuable laboratory space
  - Maintenance-free
- Vacuum bottle 2l and vacuum silicone hose >2m with inline filter for pump protection; 1 pc
- Hand vacuum pump to be used in case of power outages – made in Germany; 1pc

- Laboratory Gas Burner with mobile option; 1pc  
Ideally suited for different types of settings and different types of gas! The burner can be connected to a central gas supply in a laboratory or can be operated mobile in the fields by gas cartridge CV360 from Camping Gaz, or Express 444 using adapters.
  - Made in Germany
  - Flame temperature: 1350 °C on liquid gas, 1300 °C on natural gas (E), 1,7 kW liquid gas, 1 kW natural gas
  - Measurements: W = 150 mm, H = 210 mm
  - Weight: 500 g
  - Includes: Instruction manual, stainless steel stand, box spanner, wrenches 17 mm, wrench 15 mm for gas connection, tubing connector with swivel nut, nozzles for natural, butane/propane gas, 2m gas tubing for connection to central gas supply.
- LETZTEST Water Sampler – stainless steel made in Germany; 1pc
- Spray bottle 500 ml (sterile water); 1pc
- Spray bottle 250 ml (ethanol); 1pc
- Alcohol candle – stainless steel; 1pc
- Sterile water cup – stainless steel; 1pc
- Ethanol cup – stainless steel; 1pc
- Lockable forceps – stainless steel; 1pc
- 1ml Measuring spoon – stainless steel; 1pc
- Flat headed tweezers – stainless steel; 1pc
- Waterproof pen; 1pc
- Membrane filters; 100 pcs
- Thio-Sample bags; 50 pcs
- Selective Media for the priority parameter E.coli and other Coliforms. You have two options:
  - Pre-prepared dehydrated Compact Dry Plates (E coli & other coliforms); 32 pcs
  - ChroMedium Coliform Agar 500g – made in Germany; 1pc  
To prepare your own, reusable petri-dishes under laboratory conditions. This Chromogenic selective agar detects Escherichia coli and coliform bacteria from water with low accompanying flora (according to the standard DIN EN ISO 9308-1) and from processed food. **OR**
- Reusable and autoclavable glas petri dishes – made in Germany; 15pcs
- Pre-sterilized Thio-sample bags; 25pcs
- Instruction Sheet for LETZTEST 3-Branch Manifold; 1pcs
- 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

## Consumables

Reorder consumables via [info@letz-test.com](mailto: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.

- Pre-prepared Dehydrated culture plates Compact Dry
  - Shelf life: 2 years, 1 - 30°C without cooling
  - NordVal International certified, AOAC certified
- ChroMedium Coliform Agar, 500g. Chromogenic selective agar to detect Escherichia coli and coliform bacteria from water with low accompanying flora (according to the standard DIN EN ISO 9308-1) and from processed food. Used to prepare your own reusable petri dishes (very cost efficient compared to pre-prepared dehydrated culture plates!)
  - Shelf life: 2 years, 10 - 25°C without cooling
  - Manufactured in Germany in accordance with DIN EN ISO 9001 and 13485.
- Thio Water Sampling 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

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

## Photos

