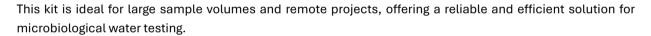


### **Laboratory Membrane Filtration Kit**

This advanced microbiological water testing kit is tailored for high-volume sample processing, enabling precise quantification of E. coli and other fecal indicator bacteria. Compliant with DIN EN ISO 9308-1 standards, it is perfect for both central and remote laboratories. The portable design operates without electricity, ensuring low running costs and making it ideal for large sample volumes and remote projects.

# Key features include:

- No need for electricity or batteries
- Extremely low running costs (~€0.50/sample) with reusable solutions
- Easy to transport (by motorbike) for remote laboratories
- Simple to use with automatic colony counting via a smartphone app
- Insensitive to errors and requires few consumables
- Easy-to-store consumables (no cooling needed)
- Simplified, methanol-free sterilization process
- Capable of testing a larger number of samples compared to similar kits



## **Specifications**

• Form: Hard-shell case

Dimensions: 450 x 360 x 175 mm

Weight: 8.6 kg

 Complete Kit: Includes an electricity-free incubator and water sampler, making it a portable microbiological water laboratory.

Waterproof: Yes

• Sample Type: Drinking water (suitable for both chlorinated and non-chlorinated samples)

• Quantifies: Escherichia coli in water

Detection Limit: 1 cfu / 100 ml

Suggested Culture Medium: Compact Dry dehydrated culture plates

 Advantage: Can also quantify other bacteria such as E. coli, coliform bacteria, enterococcus, pseudomonas aeruginosa, heterotrophic bacteria, total count bacteria, and more.

• Storage of Culture Plates: 0 - 30 °C, for up to 2 years

• Incubation: 24 hours at 37 °C

• Waste Disposal: Used chromogenic plates should be autoclaved before disposal or incinerated.



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### Content of Kit

- Instruction Manual: Easy to understand, illustrated, waterproof, and (re)writable (1 pc)
- Stainless Steel Components:
- Membrane filtration unit (1 pc)
- Portable laboratory table (1 pc)
- Multi-purpose bottle (e.g., for more volume after filtration) (1 pc)
- Laboratory alcohol candle (1 pc)
- Container for sterile water (1 pc)
- Ethanol container (1 pc)
- 1 ml spoon (1 pc)
- Flat-headed tweezers (1 pc)

### Other Items:

- Manual vacuum pump (1 pc)
- 250 ml spray bottle (for sterile water) (1 pc)
- 100 ml bottle (for ethanol >70%) (1 pc)
- Waterproof pen (1 pc)
- Membrane filters (100 pcs)
- Dehydrated culture plates Compact Dry (E. coli) (32 pcs)
- Thio Bags (100 ml) pre-sterilized with a thiosulfate tablet (25 pcs)
- Spare Parts:
- Spare valves for manual vacuum pump (2 pcs)
- EPDM seal ring for membrane filtration unit (1 pc)

#### **Consumables**

- Dehydrated Culture Plates (Compact Dry):
  - Shelf Life: 2 years, 1 30°C without cooling
  - Certifications: NordVal International, AOAC
- Thio Bags (100 ml):
  - Shelf Life: No expiration date, no cooling required
  - Compliance: Meets EPA and APHA requirements
- Membrane Filters:
  - Shelf Life: 4 years, no co oling required
  - Usage: Suitable for bacteriological analysis of water by the ISO 9308-1

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