



# Solutions for environmental and water testing

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*Real-Time PCR Kits |  
Instruments*



# Fast and reliable solutions for environmental and water testing

BIOTECON Diagnostics provides rapid **foodproof**<sup>®</sup> and **microproof**<sup>®</sup> tests for the detection and quantification of pathogens in environmental and water samples.

## Sensitive and reliable real-time PCR kits

- Applicable for all relevant sample types, like clear or turbid water
- Available in lyophilized format

### Real-time PCR **microproof**<sup>®</sup> and **foodproof**<sup>®</sup> kits for pathogen testing

<b>Bacterial pathogens</b>	<i>Legionella</i> *, <i>Vibrio</i> *, <i>Salmonella</i> *, <i>Staphylococcus aureus</i>
<b>Viral pathogens</b>	Norovirus*, Hepatitis A Virus*

\*certified (AOAC, MicroVal, NordVal) or pending

▶ Please check our website for the full product portfolio. We also offer real-time PCR cyclers, laboratory instruments and consumables.

## **microproof**<sup>®</sup> **Legionella Quantification LyoKit**

The comprehensive solution for *Legionella* testing in water supply systems, biofilms, industrial water, cooling towers, and other locations.

Our real-time PCR assay complies with regulatory standards. Because of the fast, precise and reliable results, the LyoKit is a helpful tool for outbreak and risk management.

### Workflow for *Legionella* detection



\*including live and dead differentiation



## Key benefits **Salmonella** Detection Kits

- **100 % Inclusivity:** > 700 *Salmonella* strains tested, comprising members of all serogroups
- **100 % Exclusivity:** > 60 closely related microorganisms of the same habitat tested

■ **Certified:**

## Key benefits **Legionella** testing

- Just 4 h to the result
- Identification and quantification of *Legionella* spp., *Legionella pneumophila* and *Legionella pneumophila* serogroup 1 in just one single test
- Live / dead differentiation with Reagent D
- Validated in accordance to ISO 12869:2012

## foodproof® Virus Detection Kits

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For the reliable detection of Norovirus (GI, GII) and Hepatitis A Virus in water samples, we offer multiplex and singleplex real-time PCR kits.

### Workflow virus

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- 1 Virus concentration:** According international standards, e.g. CEN ISO/TS 15216 for bottled water
- 2 RNA extraction:** foodproof® Sample Preparation Kit IV, with ISO compliant reagents
- 3 PCR setup:** Preparation of one step RT real-time PCR mix and sample setup
- 4 Real-time PCR run:** Applicable on instruments like LightCycler 480, LC 96, ABI 7500, PikoReal24 and many others

➔ Results in 3.5 h (virus concentration not included)

### Key benefits virus testing

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- Identification of Norovirus GI, GII and Hepatitis A as multiplex or singleplex RT-PCR
- Process control (MS2) included, tracking every sample
- High sensitivity with down to 3 virus copies per reaction
- Calculation of the recovery rate according ISO/TS 15216

We look forward to meeting you at one of our workshops and seminars! Please register at <http://info.bc-diagnostics.com/workshops>

## foodproof® *Vibrio* Detection LyoKit

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Real-time PCR is faster and more sensitive compared to classical microbiology. In just one single test, *Vibrio parahaemolyticus*, *Vibrio vulnificus* and *Vibrio cholerae* are identified, including toxin genes. VBNC are detected, while dead cells are excluded from the result.

### Workflow *Vibrio*

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- 1 Enrichment:** According to international guidelines, e.g. ISO/TS 21872
- 2 DNA extraction:** Fast and easy with foodproof® StarPrep Three Kit
- 3 PCR setup:** Pre-filled lyophilized reaction mix, just add DNA sample preparation
- 4 Real-time PCR run:** Applicable on instruments like LightCycler 480, LC 96, ABI 7500, PikoReal24 and many others

➔ Results in 3 h (enrichment not included)

### Key benefits *Vibrio* testing

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- Identification of *Vibrio parahaemolyticus*, *Vibrio vulnificus* and *Vibrio cholerae*
- Detection of virulence factors *tdh*, *trh1*, *trh2* and *ctx*
- All results in just one single multiplex test
- High sensitivity of 1 genomic equivalent for species discrimination, and 10-25 GE for toxin identification
- Lyophilized format for convenient storage and handling
- Internal Control for prevention of false negative results
- Including live / dead differentiation with Reagent D



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