Matrices

Multiple food matrices tested, including berries, fruits, seafood (incl. Pacific oysters, mussels), minced meat. In addition, stool samples and water tested positive.

Specificity
100% specificity, 11 different virus species have been tested, comprising several virus families with RNA and DNA genomes.

Sensitivity
Limit of detection (LOD) is 10 virus copies per reaction for GI- and GII-RNA.

Norovirus is an ubiquitous pathogen that causes gastroenteritis worldwide. The pathogen is a RNA virus belonging to the virus family Caliciviridae. As a highly contagious virus, there are often major outbreaks, particularly in facilities such as child daycares, schools or hospitals. Symptoms may include diarrhea, nausea, stomach cramps and vomiting. Severe cases have been reported caused by contaminated fruits, berries, raw vegetable, raw meat, seafood and bottled water.

The foodproof® Norovirus Detection Kit (GI, GII) is designed for an one-step real-time reverse transcriptase PCR for the simultaneous, qualitative detection, and differentiation of norovirus of the genogroup I and II and the process control (MS2). Based on primers and probes of the ISO/TS 15216, and the §64 German Food and Feed Code (LFGB), the kit contains an additional phage process control.

Safe: 3 controls included - positive, negative and process control.

Recovery rates: Calculation possible with a four-point-calibration curve.

ISO/TS 15216 - compliance: The Process Control (solution of MS2 phage) has to be added to the start of the sample processing.

Easy: Add 10 µl RNA sample in one step to the mastermix.

RNA extraction kit: Manual or semi-automated (using a vacuum manifold).

Experienced: Manufacturer of PCR based rapid tests for the food industry since 1998 with an ISO 17025 accredited service lab.

Matrices
Multiple food matrices tested, including berries, fruits, seafood (incl. Pacific oysters, mussels), minced meat. In addition, stool samples and water tested positive.
**Workflow**

- **Start**
  - Virus concentration*  

- **RNA Extraction**
  - approx. 45 min

- **PCR Setup**
  - approx. 10 min

- **Real-time PCR Run**
  - 140 min

*addition of MS2 phage (included in the detection kit)*

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**Norovirus real-time PCR Kit**

- R 302 38.1  **foodproof®** Norovirus Detection Kit (GI, GII)

**RNA Extraction Kit**

- S 400 16  **foodproof®** Sample Preparation Kit IV

**Additional real-time PCR kits (of interest for seafood)**

- R 602 44  **foodproof®** Vibrio Detection LyoKit
- R 302 37  **foodproof®** Hepatitis A Virus Detection Kit

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**Instrument Compatibility**

- 5'Nuclease / TaqMan® cycler  
  - (e.g. PikoReal 24, AriaMx, LightCycler 480, LC 96, ABI 7500)

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**Supported by:**

- Federal Ministry for Economic Affairs and Energy

- on the basis of a decision by the German Bundestag

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**Storage**

- at -15 °C to -25 °C

**64 Reactions**

- with a final volume of 25 µl

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**foodproof®** is a registered trademark of BIOTECON Diagnostics.  
The above mentioned real-time PCR instruments are registered trademarks of their respective holders.