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# For safer food – BIOTECON Diagnostics – simply builds up trust!

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 **food**proof® 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 semiautomated (using a vacuum manifold).

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

#### **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.

#### **Matrices**

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









Analysis Results in 3.5 h
(virus concentration not included)

### Workflow



**Start**Virus concentration\*



RNA Extraction



PCR Setup approx. 10 min



Real-time PCR Run 140 min

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

#### Norovirus real-time PCR Kit

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

#### **RNA Extraction Kit**

S 400 16 **food**proof® Sample Preparation Kit IV

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

R 602 44 **food**proof® *Vibrio* Detection LyoKit
R 302 37 **food**proof® Hepatitis A Virus Detection Kit



Storage at -15 °C to -25 °C 64 Reactions with a final volume of 25 µl

Supported by:



on the basis of a decision by the German Bundestag

#### **Instrument Compatibility**

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

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