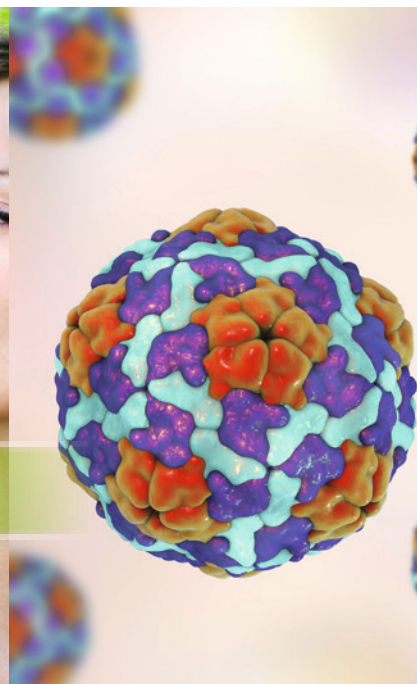




foodproof®



Hepatitis A Virus Detection Kit

RT-PCR Multiplex Assay

For safer food – BIOTEC CON Diagnostics – simply builds up trust!

The hepatitis A virus can cause a self-limiting liver infection. The pathogen is a RNA virus belonging to the virus family *Picornaviridae*. As a highly contagious virus, there are often major outbreaks, particularly in facilities such as child daycares, schools or hospitals. Symptoms may include extreme tiredness, aundice, muscle aches and pains, nausea, vomiting, and low-grade fever. You can get the first symptoms anytime between 15 and 50 days after you came in contact with the virus. Severe cases have been reported caused by contaminated fruits, berries, raw vegetable, raw fish steaks, seafood and bottled water.

The **foodproof® Hepatitis A Virus Detection Kit** is designed for an one-step real-time reverse transcriptase PCR for the simultaneous, qualitative detection of hepatitis A virus and the process control (MS2). Based on primers and probes of the ISO/TS 15216, 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.

Specificity

100% specificity, 13 different virus species have been tested, comprising several virus families with RNA and DNA genomes.

Sensitivity

Limit of detection (LOD) is 3 virus copies per reaction.

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

Analysis Results in 3.5 h (virus concentration not included)

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

Hepatitis A Virus real-time PCR Kit

R 302 37 **foodproof®** Hepatitis A Virus Detection Kit

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

Supported by:



Federal Ministry
for Economic Affairs
and Energy

on the basis of a decision
by the German Bundestag



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

Instrument Compatibility

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

BIOTECON
Diagnostics GmbH

Hermannswerder 17
14473 Potsdam
Germany

Phone: +49 (0)331-2300-200
Fax: +49 (0)331-2300-299

bcd@bc-diagnostics.com
www.bc-diagnostics.com