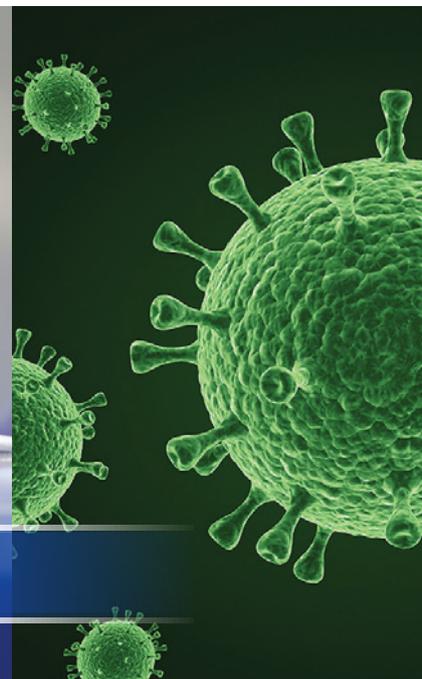


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G C T T C C A T C C C T A T C G C
T C A T C C A T C C C T A T C T G C T T C C A T C T G C T



BIOTECON Diagnostics

microproof®



SARS-CoV-2 Screening / Identification Kits

SARS-CoV-2 Detection: BIOTECON Diagnostics - simply builds up trust!

The **microproof®** SARS-CoV-2 Screening / Identification Kits are one-step reverse transcription real-time PCR assays intended for the in vitro qualitative detection of SARS-CoV-2, the virus strain that causes COVID-19.

The **microproof®** SARS-CoV-2 Screening Kit detects the E gene for SARS-related coronavirus. The **microproof®** SARS-CoV-2 Identification Kit targets the SARS-CoV-2 specific RNA-dependent RNA polymerase (RdRp) gene only.

The E gene assay is recommended for screening for SARS-CoV-2, SARS-CoV and other SARS-related CoVs. The RdRp gene assay is used for the specific confirmation of SARS-CoV-2. For both, the E gene and RdRp, the fluorescence marker FAM is used, and ROX for the process control. As a process control, the bacteriophage MS2 is included in the assays.

Viral RNA from patient samples can be extracted and purified using the Magnetic Preparation Kit VI from upper and lower respiratory specimen (such as nasopharyngeal or oropharyngeal, sputum and bronchoalveolar lavage fluid) obtained from individuals suspected of having respiratory tract infections.

microproof® SARS-CoV-2 Screening / Identification Kits are CE-IVD certified. The assays are based on the protocol of Corman et al. (Charité, Berlin, Germany)

Sold only for medical laboratories and after initial training.

WORKFLOW



1. Swab Preparation



2. Automated
RNA Extraction



3. Detection via
Real-Time RT PCR



Workflow SARS-CoV-2 Detection

1. Swab Preparation

Swab Component	Swab Set	Virus Transport Medium (VTM)	Flocked Sampling Swab for Laryngopharyngeal (Throat) Clinical Diagnostics
Units per Article	5,000	5,000	5,000
Order No.	Z 101 50.1	Z 101 51.1	Z 101 52

- VTM Transport medium is a specially formulated medium for collection, transport and long term freezer storage of viruses. It is designed to maintain the optimum viability and virulence of the viral sample.
- Z 101 52 is a high quality flocked sampling swab for laryngopharyngeal clinical diagnostics. It utilizes state of the art “spray on technology”.

Procedure:

- The swab is placed into the virus transport medium (VTM, 3 ml) vial after collecting a swab from the patient’s throat.
- Sample from the swab is reconstituted into the VTM by breaking off part of the flocked swab and leaving it in the VTM.
- This VTM preserves the virus viability and maintains the RNA integrity up to 48 hours at 2 to 8 °C and for months if stored at -80 °C.
- Take the reconstituted sample directly from the VTM to carry out RNA extraction either by using the Magnetic Preparation Kit VI or another suitable kit. Just pipette the required volume of VTM according to the RNA extraction kit protocol.

2. Automated RNA Extraction

Magnetic Preparation Kit VI, 480 reactions (Order No. S 400 20.1 L)

In combination with: RoboPrep® 32, RoboPrep® 96, KingFisher™ Flex or RoboPrep Fusion®

Features:

- **Efficient:** High-throughput automation
- **Automated:** Saves hands-on time, lab personnel gains time to perform other valuable tasks
- **Reproducible and precise:** Automation significantly minimizes (human) error for reliable results
- **Easy:** No external lysis or heat treatment
- **Validated:** *Coronaviridae* and other viruses
- **Sensitive:** Excellent RNA/DNA quality
- **Convenient:** Easy handling, simple to learn and quick to implement
- **Secure:** No cross-contamination (minimal foam and aerosol formation), integrated UV-light (RoboPrep® 32, RoboPrep® 96)
- **Cost-effective:** Most components can be shipped and stored at room temperature



For more information see the official documentation:



Magnetic Preparation Kit VI



3. Detection via microproof® SARS-CoV-2 Screening / Identification Kits

microproof® SARS-CoV-2 Screening Kit	microproof® SARS-CoV-2 Identification Kit
96 or 480 reactions	96 or 480 reactions
Targets: <ul style="list-style-type: none">■ E gene (FAM)■ Bacteriophage MS2 Process Control (ROX)	Targets: <ul style="list-style-type: none">■ RdRp (FAM)■ Bacteriophage MS2 Process Control (ROX)
Order No.: R 302 80 R 302 80 L (suitable for different real-time PCR instruments)	Order No.: R 302 81 R 302 81 L (suitable for different real-time PCR instruments)

microproof® SARS-CoV-2 Screening / Identification Kits are CE-IVD certified.

Components microproof® SARS-CoV-2 Screening / Identification Kits

- Master Mix including primer and hydrolysis probes specifically for SARS-related coronaviruses or SARS-CoV-2 and the Process Control RNA
- Enzyme Solution including the Reverse Transcriptase
- Process Control including a stabilized solution of bacteriophage MS2
- Control Template including a stabilized solution of virus-specific RNA
- Negative Control including a stabilized solution of DNA of the Process Control
- H₂O PCR-grade

Features:

- **Fast:** 45 mins preparation, 1.5 hours real-time PCR run
- **Ideal for high throughput**
- **Based on the Corman *et al.* protocol** (Charité, Berlin, Germany)
- Process Control can be added to the sample before RNA extraction

Made in Germany



Complement your laboratory equipment with the most appropriate PCR cycler for all your diagnostic needs.

The **Dualo 32 R²** is compact, offers clear result interpretations and provides optimized performance when used together with BIOTECON Diagnostics PCR kits. Combine multiple devices to maximize flexibility with regard to your throughput potential. Other real-time cycler models are also available. Please contact us for more information.

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