Quick Operation Guide
Real-Time PCR Kit SARS-CoV-2

Professional use only
Für den professionellen Gebrauch

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Start qPCR preparation steps

0 Sample collection

Incubate for min 5 Minutes and **shake** 5 times

Preparation of the PCR tube(s)

1 Oligo Mix

1 drop

2 Enzyme Mix

2 drops

For each sample use 1 PCR tube.

For Positive Control (PC) use 1 PCR tube.

For Negative Control (NC) use 1 PCR tube.

3 Specimen sample tube

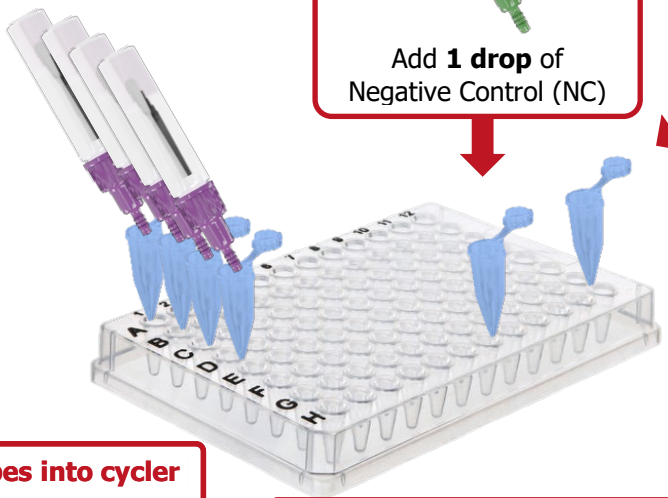
Add **1 drop** of each sample into different tubes

4 Negative control tube

Add **1 drop** of Negative Control (NC)

5 Positive control tube

Add **1 drop** of Positive Control (PC)



6 Before filling tubes into cycler

Close all PCR tubes and shake all tubes vigorously 2-3 times.

Proceed with the setting according to the Quick Operation Guide of the Cycler

Real-Time qPCR Kit SARS-CoV-2 Quick Operation Guide

For all the workflows please take care for our personal protection equipment and wear suitable FFP2 Mask, Protection suit or laboratory coat as well as suitable laboratory gloves and wear laboratory safety googles. Take care for clean and disinfected workplace when apply the test.

0 Sample collection and incubation

1. Collect the sample and put the sample collection swab into the sample tube. Close the tube tightly.
   (Remarks: The buffer in the sample collection tubes is deactivating the virus.)

   ⚠ Change gloves after each person sampling.

2. Incubate the sample at least for 5 minutes and strongly shake it 5 times.

   ⚠ Change gloves before the next steps.

1 - 6 PCR reaction preparation

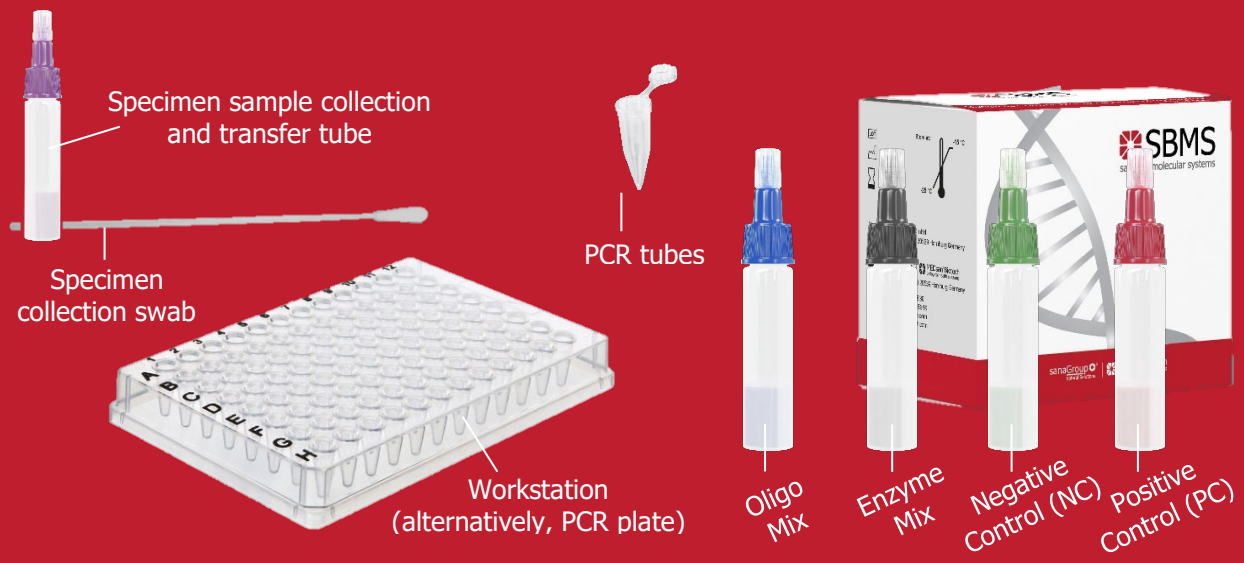
1. Place the **workstation** → **for each sample** place **1 tube** into the workstation.
2. Place **1 tube** for the **Negative Control (NC)** and **1 tube** for the **Positive Control (PC)** into the workstation as well.
3. Add **1 drop** of the **Oligo Mix** in each tube.

   ⚠ Change gloves.
4. Add **2 drops** of the **Enzyme Mix** into each tube.
5. Put **1 drop** of each specimen sample into the **related PCR tube**.
   Each sample is in a separate tube (e.g. 5 samples = 5 PCR tubes)!
6. Close the tubes tightly.

   ⚠ Change gloves.
7. Add **1 drop** of the **Negative Control Tube (green)** into the PCR tube for NC.
8. Close the tube tightly.
9. Add **1 drop** of the **Positive Control Tube (red)** into the PCR tube for PC.
10. Close the tube tightly.

    ⚠ Change gloves.
11. Insert the filled PCR tubes (incl. the NC and the PC tubes) into the qPCR Cycler.
12. Close the sample compartment according to the qPCR Cycler instructions.
13. Proceed with the setting according to the ultraSBMS26 / ultraSBMS16 Operation Guide.

Required Material in the Real-Time PCR Kit SARS-CoV-2



Workstation
… is used for easy placement of the PCR tubes during the preparation process.

PCR tubes
… used for easy application of your PCR runs.

Sample Collection and Transfer Tubes
… contain deactivating extraction buffer for quick and safe processing.

Sample Collection Swabs
… are for saliva sample collection.

Oligo Mix and Enzyme Mix
… are used to apply the PCR reactions and have high sensitivity and specificity

Negative Control (NC) and Positive Control (PC)
… are the external control mechanism to validate your PCR results.

Long term storage:	-20 ±2 °C
Shelf Life:	*12 months*
Short term storage:	2 – 8 °C
Shelf Life:	*10 days*
Run time protocol:	The runtime is ~ 28 Minutes