

NEW

ampliCube Coronavirus SARS-CoV-2 *ampliCube* Coronavirus Panel

Real-Time Multiplex RT-PCR kits for the detection of RNA of Coronaviruses

Coronaviruses circulate in animals, however some of them are also known to cause infections in humans. Bats are the natural hosts of these viruses, but other species may serve as hosts either, i.e. the Coronavirus of the Middle East (MERS-CoV) circulating in camels can be transmitted to humans as well. Human Coronaviruses (hCoV) that may often cause respiratory diseases are transmitted from one human being to another. The novel Coronavirus SARS-CoV-2 belongs to the SARS-Coronaviruses (SARS-CoV) and is responsible for the disease COVID-19, a severe acute respiratory syndrome. The virus SARS-CoV-2 is transmitted by humans infected by the virus.

MIKROGEN *ampliCube* Coronavirus assays will leave you optimally prepared to handle all issues:

ampliCube Coronavirus SARS-CoV-2

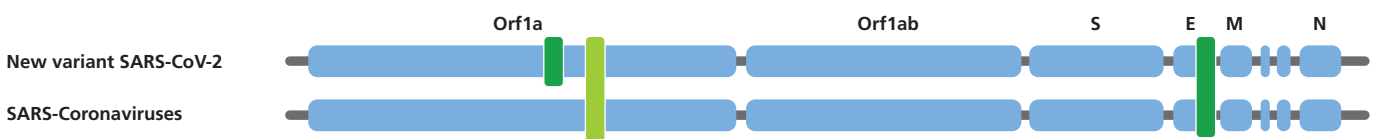
- **Safe and quick:** screening and confirmatory assay of SARS-CoV-2 in one single approach
- **Screening:** highly sensitive detection of RNA of SARS Coronaviruses and SARS-CoV-2
- **Confirmation:** specific detection of RNA of SARS-CoV-2
- **Ideal assay** for your reliable SARS-CoV-2 PCR diagnostics

ampliCube Coronavirus Panel

- **Safe and quick:** assay for all relevant Coronaviruses in one single approach
- Detection of RNA of MERS-CoV, SARS-CoV (incl. SARS-CoV-2) and hCoV
- **Safe SARS-CoV-2 diagnostics:** high sensitivity and specificity
- **Ideal assay** combined with our additional respiratory *ampliCube* PCR kits for samples from patients suffering from respiratory symptoms



	Green	Yellow	Orange	Red	Art.-No.	rxn
<i>ampliCube</i> Coronavirus SARS-CoV-2	Screening SARS-CoV (incl. SARS-CoV-2) Target: E-Gene	Confirmation specific for SARS-CoV-2 Target: specific marker for SARS-CoV-2 confirmation in the Orf1a	-	Internal Control	50143	50
					50144	500
analytical sensitivity (LoD, 95% limit of detection)	1.5 (0.8 – 4.3) Genome/PCR for SARS-CoV	2.2 (1.3 – 5.8) Genome/PCR for SARS-CoV-2				
<i>ampliCube</i> Coronavirus Panel	MERS-CoV	Screening SARS-CoV (incl. SARS-CoV-2) Target: specific marker for SARS-CoV screening in the Orf1a	hCoV human Coronaviruses (229E, hKU1, NL63, OC43)	Internal Control	50142	50
analytical sensitivity (LoD, 95% limit of detection)		2.9 (1.9 – 6.4) Genome/PCR for SARS-CoV-2	-			



Orf1a ■ *ampliCube* Coronavirus SARS-CoV-2 / Art. Nr. 50143 / Art. Nr. 50144
Primer & probe set that is only specific for SARS-CoV-2


Orf1a ■ *ampliCube* Coronavirus Panel / Art. Nr. 50142
Different primer & probe sets, each specific to SARS-CoV-2 or SARS-CoV or bat SARS-like CoV

E ■ Test design is aligned with the Charité/WHO


Testprinciple and Procedure



Characteristics of the *ampliCube* product line

Testprinciple	Real-Time PCR Technology	
Package content	Enzyme Mix	Coloured enzyme mix to monitor assay protocol
<ul style="list-style-type: none"> Complete PCR kits with ready-to-use reagents Reagents are sufficient for 50 assays additional 500 rxn/kit for <i>ampliCube</i> Coronavirus SARS-CoV-2 	Test specific Primer & Probes mix	Test specific primer & probes for pathogens and Internal Control
	Internal Control	Internal control for monitoring nucleic acid (RNA/DNA) extraction and real-time PCR inhibition in each reaction
	Positive Control	One positive control for all parameters in one assay
	Negative Control	Contamination control, negative control is processed like a patient sample (including extraction)
	Instructions for use	Brief, understandable instructions and performance data
PCR Program	Reverse Transcription	50°C 8 min
<ul style="list-style-type: none"> Standard Cycling Program 	Denaturation	95°C 3 min
	Amplification	45 cycles
	Denaturation	95°C 10 sec
	Annealing/Elongation	60°C 45 sec
	Extraction systems	Compatible with different RNA/DNA extraction methods
PCR Real-Time Cycler	Validated and compatible with different Real-Time PCR cyclers (e.g. Roche LightCycler® 480 II, Qiagen Rotor-Gene® Q, Bio-Rad CFX96, QuantStudio™ 5 Dx, Mic Magnetic Induction Cycler)	
Automation Option	For a smart, small, safe and accurate PCR setup and amplification: Combine Myra (Liquid Handling System) und Mic (qPCR Cycler)	
Storage and Transport Temperature	At -25 °C to -18 °C	

The choice is yours – Combine our *ampliCube* PCR Tests according to your Requirements

 Respiratory Infections	Green	Yellow	Orange	Red	Art.-No.	rxn
<i>ampliCube</i> Respiratory Bacterial Panel 1	Chlamydia pn.	Mycoplasma pn.	Legionella spp.	Internal Control	50101	50
<i>ampliCube</i> Respiratory Bacterial Panel 2	Bordetella pertussis	Bordetella parapertussis	Bordetella holmesii	Internal Control	50111	50
<i>ampliCube</i> Respiratory Bacterial Panel 3	Streptococcus pn.	Staphylococcus aureus	Haemophilus influenzae	Internal Control	50121	50
<i>ampliCube</i> Respiratory Bacterial Panel 4	Moraxella catarrhalis	Klebsiella pn./oxytoca	–	Internal Control	50131	50
<i>ampliCube</i> Respiratory Viral Panel 1	Influenza A	Influenza B	Influenza A H1N1	Internal Control	50102	50
<i>ampliCube</i> Respiratory Viral Panel 2	Parainfluenza 1-4	Bocavirus	–	Internal Control	50112	50
<i>ampliCube</i> Respiratory Viral Panel 3	Parechovirus	Metapneumovirus	RSV (A,B)	Internal Control	50122	50
<i>ampliCube</i> Respiratory Viral Panel 4	Rhino-/Enterovirus	–	Adenovirus	Internal Control	50132	50
<i>ampliCube</i> Respiratory Viral Panel 5	Influenza A	Influenza B	RSV (A,B)	Internal Control	50152	50
<i>ampliCube</i> Coronavirus Panel	MERS-CoV	SARS-CoV Screening (incl. SARS-CoV-2)	hCoV (229E, hKU1, NL63, OC43)	Internal Control	50142	50
<i>ampliCube</i> Coronavirus SARS-CoV-2	SARS-CoV Screening (incl. SARS-CoV-2)	SARS-CoV-2 Confirmation	–	Internal Control	50143 50144	50 500