



MASTISOPLEX[®] SARS-CoV-2



- Isothermal amplification assay for the detection of SARS-CoV-2

- Simple and fast analysis in 45 minutes

- Multiplex RT-LAMP by using novel mediator displacement probes



MASTISOPLEX® SARS-CoV-2

MASTISOPLEX® SARS-CoV-2 is an in vitro diagnostic kit for the qualitative detection of SARS-CoV-2 in human respiratory specimens.

Specifications

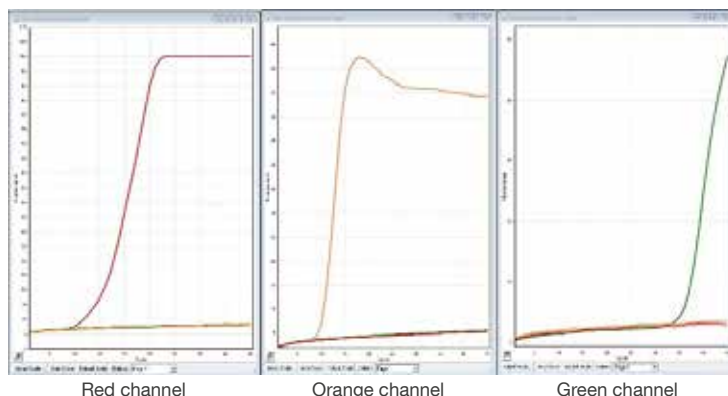
Test principle	Multiplex RT-LAMP
Specimen material	Extracted RNA from human respiratory specimen
Sensitivity*	98%
Specificity*	99%
Positive predictive value*	98%
Negative predictive value*	99%
Efficiency*	99%
Assay-Dauer	45 min
Storage temperature	≤-20°C
Device	Real-time PCR cyclers or programmable heating blocks, suitable for isothermal nucleic acid amplification and fluorescence detection (FAM, Cy5, ROX), e.g. MASTISOPLEX® MD12
Pack Size	100 tests

* Collective of 241 negative and 171 positive samples, compared to RT-PCR.

New: Multiplex RT-LAMP of specific target sequences by using novel Mediator Displacement Probes

MASTISOPLEX® SARS-CoV-2 is based on the principle of LAMP, whereby viral RNA, which is first transcribed into cDNA by using of reverse transcriptase (RT), is amplified in a loop-mediated isothermal amplification reaction⁽¹⁾. In this process, the use of novel „Mediator Displacement Probes“ in conjunction with universal reporters⁽²⁾ allows real-time multiplexing of the SARS-CoV-2 specific target sequences in the RdRp and N gene as well as of the internal inhibition control RNA (IC) or extraction control RNA (EC).

For isothermal amplification and detection, all appropriate real-time PCR cyclers can be used or programmable real-time heating blocks equipped for the detection of fluorescence signals, e.g. **MASTISOPLEX® SARS-CoV-2**. The amplified products can be detected within 45 minutes.



Ordering information

Order Code	Product	CE	Pack Size
67COV2-2	MASTISOPLEX® SARS-CoV-2		100 tests

Literatur

1. T Notomi 1, H Okayama, H Masubuchi, T Yonekawa, K Watanabe, N Amino, T Hase; Loop-mediated Isothermal Amplification of DNA, Nucleic Acids Res. 2000 Jun 15;28(12):E63. doi: 10.1093/nar/28.12.e63.
2. Simplified Real-Time Multiplex Detection of Loop-Mediated Isothermal Amplification Using Novel Mediator Displacement Probes with Universal Reporters. Becherer L, Bakheit M, Frischmann S, Stinco S, Borst N, Zengerle R, von Stetten F. Anal Chem. 2018 Apr 3;90(7):4741-4748. doi: 10.1021/acs.analchem.7b05371. Epub 2018 Mar 14.

V. 2021-03-29

United Kingdom
Mast Group Ltd.
Mast House, Derby Road, Bootle
Merseyside L20 1EA

Tel: +44 (0)151 933 7277
Fax: +44 (0)151 944 1332
e-mail: sales@mastgrp.com

Germany
Mast Diagnostica GmbH
Feldstraße 20
DE-23858 Reinfeld

Tel: +49 (0)4533 2007 0
Fax: +49 (0)4533 2007 68
e-mail: mast@mast-diagnostica.de

France
Mast Diagnostic
12 rue Jean-Jacques Mention
CS91106, 80011 Amiens, CEDEX 1

Tél: +33 (0)322 80 80 67
Fax: +33 (0)322 80 99 22
e-mail: info@mast-diagnostic.fr

www.mast-group.com