

Efficient Triage

during COVID-19 pandemic and
winter viruses season

SARS-CoV-2/FLU/RSV REALTIME PCR KIT

Real-time reverse transcription and amplification of nucleic acids in one step for detection of SARS-CoV-2, Influenza A, Influenza B and RSV in respiratory samples.

- 4 virus Multiplex PCR detection- one single reaction tube per sample.
- Endogenous human *RNAse P* control- for detecting unsuitable sample collection or degradation.
- Suitable for 5-channel qPCR cyclers: FAM, Quasar 705 (Cy5.5), Cy5, HEX (VIC), Texas Red (ROX).
- Fast and reliable results in under 2 hours.
- Lyophilized master mix and positive control to ensure stability and reduce transportation costs.
- Different kit presentations for greater user convenience: vials, pre-dispensed strips and plate.
- Two SARS-CoV-2 targets in compliance with international guidelines: WHO, CDC and ECDC*.

* World Health Organization, Center for Disease Control Atlanta US and European Center for Disease Control.



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CONTENT



Single mix, Reconstitution solution, Positive control and Negative control. The mix includes internal control primers/probes for human specimen validation that detect improper sample collection or degradation.

Kit formats:

Ref. RTPCR003 contains 6 glass vials of lyophilized master mix. Reaction tubes are not included.

Ref. RTPCR003-LP contains caps and 12x8 PCR strips with pre-dispensed lyophilized master mix.

Ref. RTPCR003-LPP contains 1x96 well plate with lyophilized master mix. Plastic adhesive cover is included.

APPLICATION



Oropharyngeal and nasopharyngeal swab. Tracheal aspirates, bronchoalveolar lavage (BAL) and saliva. The use of saliva sample has been validated only for SARS-CoV-2 detection.

COMPATIBILITY



Extraction systems:

Qiagen (Viral RNA Mini Kit & MinElute Virus Spin Kit), bioMérieux (NucliSENS[®] easyMag[®]), Roche (MagNA Pure System), TANBead (Maelstorm 9600), ThermoFisher (KingFisher Flex) and Bruker (GenoXtract 12) among others.

RealTime PCR thermocyclers*:

Ref. RTPCR003: BioRad (CFX96), Qiagen (Rotor-Gene Q 5plex), Agilent/Stratagene (MX3005P), Applied Biosystems (Quantstudio 5), Analytik Jena (qTOWER³), Azure biosystems (Cielo[™]), among others.

Ref. RTPCR003-LP: Bio-Rad (CFX96).

Ref. RTPCR003-LPP: Bio-Rad (CFX96).

* Alternatively, thermocyclers of 4 detection channels can be also used. In this case, the SARS-CoV-2 will be detected by one single target, the *N* gene in the FAM channel.

INFORMATION AND RELATED PRODUCTS

Description	Reference	Content
SARS-CoV-2/FLU/RSV REALTIME PCR KIT NEW	N28-RTPCR003	96 tests
SARS-CoV-2/FLU/RSV REALTIME PCR KIT NEW	N28-RTPCR003-LP	96 tests
SARS-CoV-2/FLU/RSV REALTIME PCR KIT NEW	N28-RTPCR003-LPP	96 tests

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TARGETS



	Target	Channel
SARS-CoV-2	N gene	FAM
SARS-CoV-2	E gene	Quasar 705/Cy5.5
Influenza A	M gene	HEX/VIC**
Influenza B	NS1 gene	HEX/VIC**
RSV	L gene	Texas Red/ROX
Internal control	Human RNAse P gene	Cy5

** The assay does not differentiate between influenza A or influenza B virus.

PERFORMANCE



	Sensitivity	Specificity	No. of samples
InfA	100%	100%	148 POS
InfB, RSV, SARS-CoV-2	97%	100%	39 NEG

Analytical sensitivity - Limit of detection:

	copies/ml	copies/reaction
SARS-CoV-2 (<i>N</i> gene)	700	3.5
SARS-CoV-2 (<i>E</i> gene)	700	3.5
Influenza A (<i>M</i> gene)	1400	7
Influenza B (<i>NS1</i> gene)	1200	6
RSV (<i>L</i> gene)	1100	5.5