

SARS-CoV-2/FLU A/ FLU B/ RSV Molecular Diagnosis

Multiplex Screening of Respiratory Viruses

SARS-CoV-2/FLU A/FLU B/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 and pre-dispensed divisible plates.
- Two SARS-CoV-2 targets in compliance with international guidelines: WHO, CDC and ECDC*.
- Fully aligned with **WHO and ECDC diagnostic algorithms**, which recommend initial molecular screening for respiratory viruses as the first step in influenza diagnosis.



Ref. RTPCR021



Ref. RTPCR021-LPD

* 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 an internal control for human specimen validation that detect improper sample collection or degradation.

Kit formats:

Ref. RTPCR021 contains 6 glass vials of lyophilized master mix. Reaction tubes are not included.
Ref. RTPCR021-LPD contains caps and 96 x 0.1ml Tear Off 8-Tube Strip Mat with pre-dispensed lyophilized master mix.

APPLICATIONS



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.

WHY PCR FOR RESPIRATORY DIAGNOSIS?



During **respiratory infection season**, multiple respiratory viruses circulate simultaneously, often with similar clinical symptoms. Molecular diagnostics enable fast and accurate detection, supporting reliable differential diagnosis.

A stepwise molecular approach allows laboratories to combine **multiplex screening** with **Influenza A subtyping**, providing essential epidemiological insight when it matters most.



Ref. RTPCR037-LP-R

TARGETS



	Target	Channel
SARS-CoV-2	<i>N</i> gene	FAM
Influenza A	<i>M</i> gene	HEX/VIC
Influenza B	<i>NS1</i> gene	Cy5
RSV	<i>L</i> gene	Texas Red/ROX
Internal control	Human RNase P gene	Q705/Cy5.5

PERFORMANCE



	Sensitivity	Specificity	No. of samples ^c
SARS-CoV-2	99%	100%	687
InfA	98%	100%	106
InfB	98%	100%	103
RSV	97%	100%	231

ADDITIONAL KITS



When Influenza A is detected, the **FLU A SUBTYPING REALTIME PCR KIT (RTPCR037-LP-R)** enables rapid differentiation of key subtypes, **A(H1N1)pdm09**, **A(H3N2)** and **A(H5)**, providing valuable epidemiological insight to support surveillance and decision-making during flu season, particularly in periods of intense or early circulation.

- Suitable for 4-channel qPCR cyclers: 3 subtypes of influenza A and internal control (RNaseP)
- Lyophilized master mix and positive control to ensure stability and reduce transportation costs.
- **Sample type:** human nasopharyngeal/oropharyngeal swabs.

INFORMATION AND RELATED PRODUCTS

Description	Reference	Class	Content
SARS-CoV-2 / FLU A / FLU B / RSV REALTIME PCR KIT	RTPCR021	CE ₀₁₂₃ IVDR	96 tests
SARS-CoV-2 / FLU A / FLU B / RSV REALTIME PCR KIT	RTPCR021-LPD	CE ₀₁₂₃ IVDR	96 tests
FLU A SUBTYPING REALTIME PCR KIT	RTPCR037-LP-R	RUO	24 tests
AMPLIRUN® TOTAL SARS-CoV-2/ FluA/FluB/RSV CONTROL (SWAB)	MBTC031-R	CE	10 vials
RESPIRATORY SWAB MATRIX NEGATIVE CONTROL	MC110	-	10 vials

Vircell, S.L. Parque Tecnológico de la Salud, Avicena 8. 18016 Granada, España. info@vircell.com
Vircell Spain, S.L.U. Pol. Ind. Dos de Octubre, Plaza Domínguez Ortiz 1. 18320 Santa Fe, Granada
Delegación Madrid: 913 457 903. Delegación Barcelona: 933 099 530. www.vircell.com

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