

ARIES® Flu A/B & RSV+SARS-CoV-2 (CE-IVD)

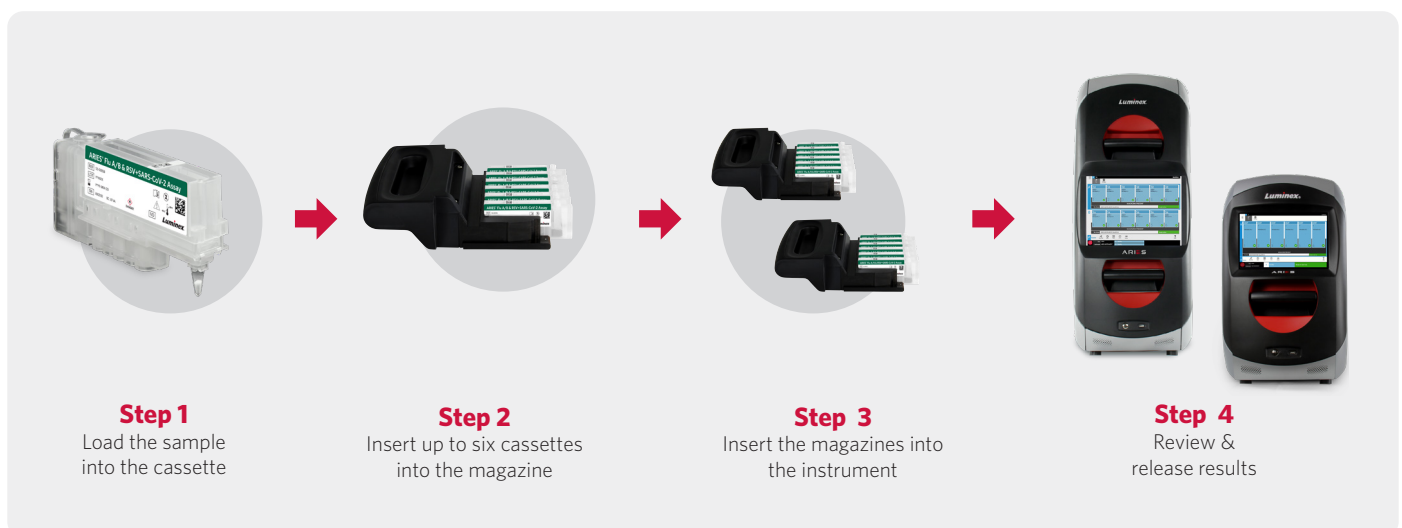
ARIES® Flu A/B & RSV+SARS-CoV-2 is a multiplex real-time sample-to-answer PCR test utilized in the detection and differentiation of SARS-CoV-2, influenza A, influenza B, and RSV.

Accurate detection of respiratory viruses is important in patient care, as it guides both therapy and infection control measures.¹ Children, the elderly, and the immunocompromised remain the most vulnerable to severe disease. SARS-CoV-2 is now among the most relevant acute respiratory infection-causing pathogens. The WHO recommends countries prepare for the co-circulation of influenza and SARS-CoV-2 viruses, especially in light of their overlapping symptomology.² Likewise, RSV epidemics were projected to be more intense and to affect patients in a broader age range than in typical RSV seasons.³ Thus, laboratories must adapt their testing algorithms to the reemergence and fluctuation of respiratory pathogens.

The ARIES® Flu A/B & RSV+SARS-CoV-2 Assay offers:

- **Reliable Performance:** Sensitive detection of influenza A, influenza B, RSV, and SARS-CoV-2 in a single test. The 2-gene design (N and M genes) supports broad coverage of SARS-CoV-2 variants, while the built-in sample processing control confirms result validity.
- **Scalable Throughput:** Process up to 12 samples in just over two hours (with the ARIES® System) accommodating variable, day-to-day, and seasonal testing demands.
- **Convenience:** Simply add your sample directly into the benchtop stored cassette, saving time, effort, and valuable temperature controlled storage space.

Workflow



Performance

The clinical data summarized in the two tables below demonstrates the reliability of this multi-target assay.

Clinical Performance

The clinical performance of the ARIES® Flu A/B & RSV+SARS-CoV-2 Assay was compared to a molecular assay with confirmation of positive results by PCR followed by bidirectional sequencing (BDS) assays. For each target in the ARIES® Flu A/B & RSV+SARS-CoV-2 Assay, the PPA (positive percent agreement) and NPA (negative percent agreement) performance for combined prospective and pre-selected specimen analysis is shown below.

Pathogen	PPA	NPA
Influenza A	98.5%	99.3%
Influenza B	100%	100%
RSV	98.6%	99.7%
SARS-CoV-2	95.8%	98.4%

Limit of Detection (LoD)

Pathogen	Strain	LoD (copies/mL)
Influenza A	A/Brisbane-02-2018/H1N1 98.5%	199
	A/Kansas/14/2017 (H3N2)	1,472
Influenza B	B/Colorado/06/2017	375
	B/Phuket/3073/2013	627
RSV	RSV/A/Long	832
	RSV B WV/14617/85	872
SARS-CoV-2	SARS-CoV-2 /Isolate: USA-WA 1/2020	648
	SARS-CoV-2/ Hong Kong	243

Testing with confidence: In silico analysis established our broad viral strain coverage prior to releasing the product to the market and is regularly confirmed through our Biosurveillance program. Influenza A and B inclusivity was assessed with sequences available from the GISAID database between January 1, 2017 and January 6, 2022. The assay oligos for influenza A, influenza A H1, influenza A H3, and influenza B are predicted to have ~100% inclusivity against the analyzed sequences.

We are continuously monitoring the GISAID database SARS-CoV-2 Variants of Concern sequences. Please go to <https://www.luminexcorp.com/covid19-testing-solutions/>, select “Click here” to view the results of our in silico inclusivity analysis.

Ordering

Product Name	Part Number
ARIES® Flu A/B & RSV+SARS-CoV-2 Assay† (24 tests) CE-IVD	50-10055
ARIES® System	ARIES-M12V1-IVD
ARIES® M1 System	ARIES-M6V1-IVD
SYNCT™ Software	CN-SW47

†For detection and identification of influenza A, influenza B, RSV, and SARS-CoV-2 viral nucleic acids in nasopharyngeal swabs (NPS) obtained from individuals with clinical signs and symptoms of respiratory tract infections, including COVID-19.

REFERENCES

- Ginocchio CC and McAdam AJ. Current Best Practices for Respiratory Virus Testing. J Clin Microbiol; 2011 Sept;49(9Suppl):S44-S48.
- Influenza Update N° 412, 07 February 2022, based on data up to 23 January 2022. WHO (Internet). Cited May 2022. Available from: <https://www.who.int/publications/m/item/influenza-update-n-412>.
- Zheng She, Pitzer VE, Shapiro ED, et al. Estimation of the Timing and Intensity of Reemergence of Respiratory Syncytial Virus Following the COVID-19 Pandemic in the US. JAMA Netw Open. 2021;4(12):e2141779. doi:10.1001/jamanetworkopen.2021.41779.

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