SARS-CoV-2 | DETECTION RESEARCH

[Accelerate detection of viral pathogens, eclipse SARS-CoV-2]

Faster, simpler viral pathogen research and surveillance with SuperScript IV RT-LAMP Master Mix

The Invitrogen™ SuperScript™ IV RT-LAMP Master Mix is a reverse transcription loop-mediated isothermal amplification (RT-LAMP)–based solution for faster and simpler detection of viral RNA, including that from SARS-CoV-2, the influenza and measles viruses, and other pathogens. Our master mix allows maximum flexibility to optimize your assay development for a variety of targets and is compatible with multiple methods for evaluating results, such as endpoint visualization and real-time fluorescence detection with Invitrogen™ SYTO™ 9 Green Fluorescent Nucleic Acid Stain.

SuperScript IV RT-LAMP Master Mix also detects DNA targets, enabling a wider range of applications for your research and surveillance of pathogens.

Highlights

- **Faster**—viral pathogen detection in as little as 5 minutes with evolved Bst DNA polymerase
- **Efficient**—one-step reaction for reverse transcription of RNA to cDNA with Invitrogen™ SuperScript™ IV Reverse Transcriptase
- **Sensitive**—enhanced sensitivity and specificity utilizing Invitrogen™ RNaseOUT™ Recombinant Ribonuclease Inhibitor and an optimized buffer
- **Simpler**—streamlined workflow that includes a single-tube format and only requires a 65°C heating block
- **Flexible**—several options for evaluating results, including real-time and endpoint detection methods

SuperScript IV RT-LAMP Master Mix includes SYTO 9 Green Fluorescent Nucleic Acid Stain

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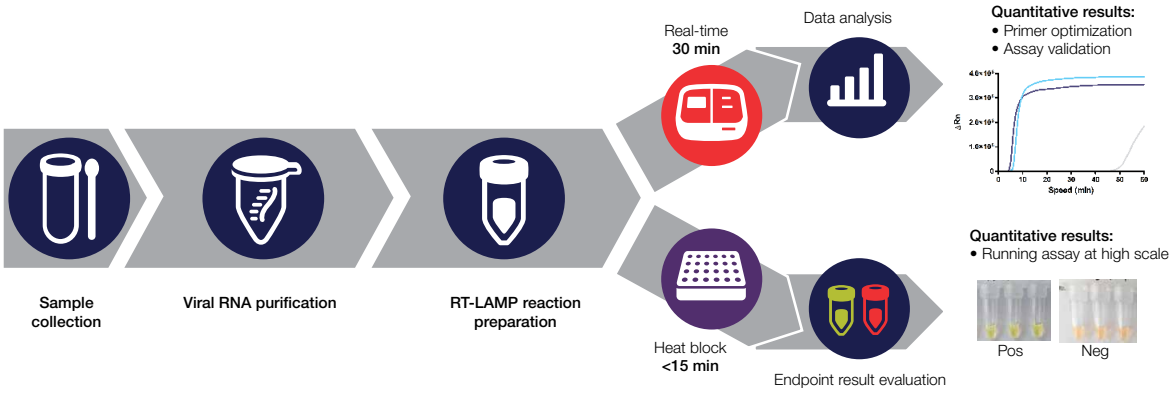
RT-LAMP workflow for research or assay development to detect viral pathogens

Example of a typical workflow using purified RNA samples with SuperScript IV RT-LAMP Master Mix



SuperScript IV RT-LAMP Master Mix application notes

These application notes demonstrate outstanding RT-LAMP performance and include generation of a new positive RNA control for more accurate assay development.

Proven performance: When tested with RNA purified from negative SARS-CoV-2 clinical samples, the SuperScript IV RT-LAMP Master Mix demonstrated 100% specificity. When tested with RNA purified from positive SARS-CoV-2 clinical samples, it demonstrated the fastest amplification speed (<10 min).

Positive RNA control: Using Invitrogen™ GeneArt™ Strings™ DNA Fragments, a positive synthetic RNA control can be generated to validate results during your RT-LAMP assay development.

For greater flexibility, utilize our stand-alone reagents with the **RT-LAMP protocol** and **application note** for fast and simple detection of viral pathogens, including SARS-CoV-2, at **thermofisher.com/lamp**.

Stand-alone lyo-ready enzymes are available for large-volume orders. Email **mdxenzymes@thermofisher.com** or visit **thermofisher.com/lyo-ready**.

Ordering information

Product	Size	Cat. No.
SuperScript IV RT-LAMP Master Mix	100 reactions	A51801
	400 reactions	A51802
	1,000 reactions	A51803

Find out more at **thermofisher.com/rtlampmastermix**

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