

Unlocking the power of simplicity— one temperature, multiple possibilities

Learn more about our offerings for isothermal amplification

Isothermal amplification techniques*

LAMP

RCA

WGA

RPA

HDA

NASBA

TMA

SDA

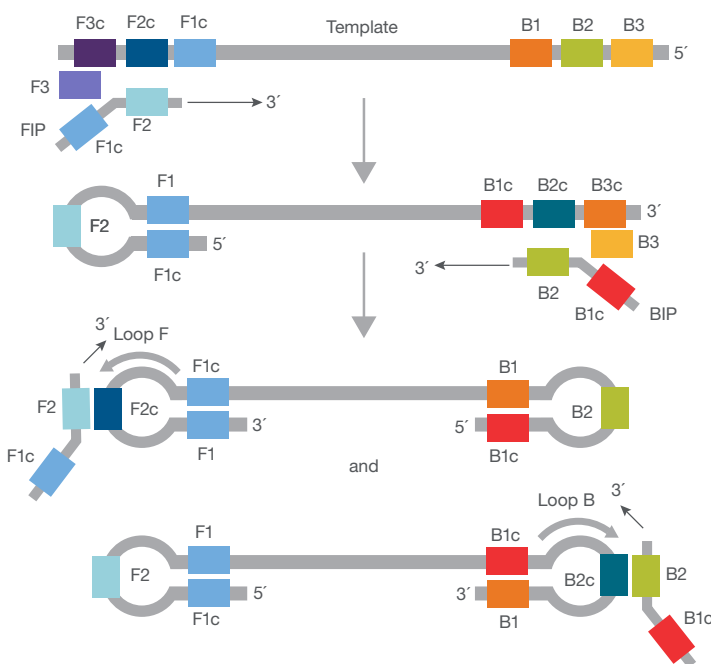
EXPAR

LAMP: loop-mediated isothermal amplification; RCA: rolling circle amplification; WGA: whole-genome amplification; RPA: recombinase polymerase amplification; HDA: helicase-dependent amplification; NASBA: nucleic acid sequence-based amplification; TMA: transcription-mediated amplification; SDA: strand displacement amplification; EXPAR: exponential amplification reaction.



Loop-mediated isothermal amplification (LAMP)

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Loop-mediated isothermal amplification (LAMP) is a technique for the amplification of DNA or RNA (when reverse transcriptase is incorporated) based on a strand displacement reaction and the formation of stem-loop structures under isothermal conditions.

It uses the *Bacillus stearothermophilus* DNA polymerase (Bst DNA polymerase) and a set of 4–6 specifically designed primers that hybridize to 6 or 8 different parts of the target DNA sequence.



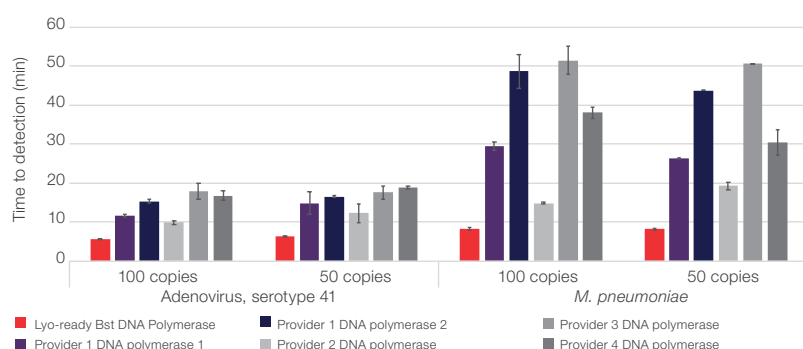
Enzymes and reagents for LAMP/RT-LAMP

Products are available in stand-alone and kit formats. They can also be customized in different sizes and concentrations with a glycerol-free format for assay development.

Product	Size	Concentration	Cat. No.
Lyo-ready Bst DNA Polymerase	1,200 U	6 U/μL	A56655
	6,000 U	6 U/μL	A56656
	1,200 U	40 U/μL	A56657

For customization or commercial usage, please contact our OEM team.

High speed



Invitrogen™ Lyo-ready Bst DNA Polymerase provides exceptionally fast reaction speed with various DNA targets.



For free sample

Contact information

Thermo Fisher Scientific has a dedicated team to support OEM and custom solutions. Please contact us if you need quotes or free samples, or have any other inquiries for your assays.



Contact OEM team

Learn more about our LAMP solutions at thermofisher.com/lamp