

DetechBeads Influenza A RT-LAMP LyoMix



⚠ FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES. ⚠

A Research Reagent for Laboratory Detection of Influenza A RNA

Nucleic acid amplification tests such as RT-PCR require specialised equipment and extended reaction times. The DetechBeads Influenza A RT-LAMP LyoMix is a ready-to-use research reagent designed for rapid isothermal amplification of Influenza A RNA in a laboratory setting.

DetechBeads Influenza A RT-LAMP LyoMix offers a lyophilised, ready-to-use format for laboratory LAMP-based RNA detection. Loop-mediated Isothermal Amplification (LAMP) is a nucleic acid amplification technique under isothermal conditions. Results are obtained within 30 minutes, and the lyophilised bead format is stable at room temperature, making it suitable for use with standard laboratory thermocyclers.

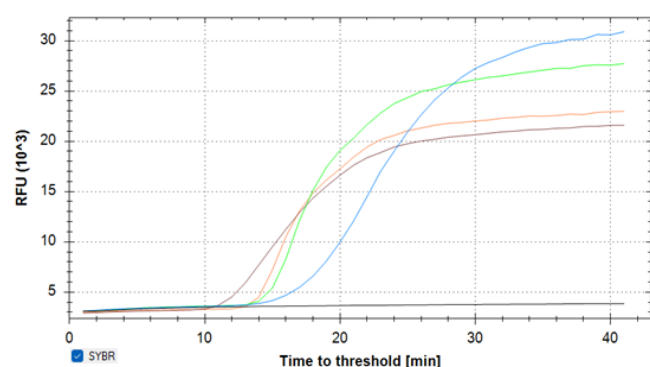
Analytical Performance



The DetechBeads Influenza A RT-LAMP LyoMix contains a special LAMP primer-set designed for the amplification and detection of Influenza A RNA (subtypes H1 and H3), and can detect as low as 100 Influenza A copies of RNA per reaction at 65°C within 30 minutes colorimetrically.

Research data generated using Influenza A RT-LAMP Beads with fluorescent dye and Influenza A H1N1 RNA Control (synthetic RNA, in vitro conditions). These data reflect fluorescent detection and do not represent the analytical sensitivity of the colorimetric readout format supplied. For Research Use Only.

Product Features



- 1000 copies/μl
- 500 copies/μl
- 100 copies/μl
- 50 copies/μl

Negative control:

- Nuclease-free water: 23μl;
- Template RNA: 2μl;
- Final volume of LAMP reaction: 25μl

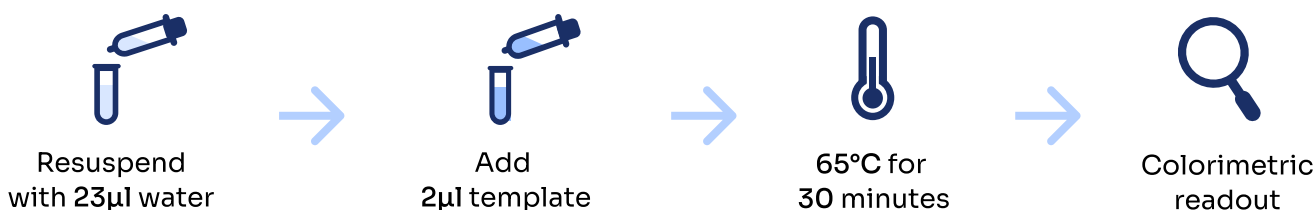
Sensitivity tests performed using Influenza A RT-LAMP Beads with fluorescent dye and synthetic Influenza A H1N1 RNA Control.

Colorimetric change is noticed when reaction turns from pink (no-reaction/negative) to yellow (positive).

- Utilizes robust Bst DNA polymerase for LAMP
- Ready-to-use format with results in 30 minutes
- Thermostable reverse transcriptase for RNA samples
- Suitable for use in common PCR and RT-PCR thermocyclers

Applications Overview

The use of the lyophilised LAMP bead is as simple as 1-2-3. First, 23 µl of water is resuspended to the PCR tube containing the bead. Second, 2 µl of **purified RNA (e.g., from an appropriate RNA extraction kit)** is added. Finally, the tube is incubated at 65°C for 30 minutes. A colour change from pink to yellow indicates **amplification of the Influenza A RNA target** in the sample. The colours are very bright and saturated, and moreover, the beads' low foaming property makes it easy to read the results.



Product Specifications

The DetechBeads Influenza A RT-LAMP LyoMix are available in various formats to suit various needs. A single Influenza A RT-LAMP bead consists of a ready-made pre-mix consisting of Bst polymerase, reverse transcriptase, Influenza A specific LAMP primers, dNTPs, dUTPs and the necessary salts required to carry out the reaction.

Safety Data Sheet (SDS) available on request. Handle in accordance with good laboratory practice.

Product	Quantity	Product-ID	Price
DetechBeads Influenza A RT-LAMP LyoMix, 1 Pack	8 Tube PCR Strip x 8	DG-DB-FLUA-PK01	249€
DetechBeads Influenza A RT-LAMP LyoMix, 5 Pack	8 Tube PCR Strip x 40	DG-DB-FLUA-PK05	1,229€
DetechBeads Influenza A RT-LAMP LyoMix, 10 Pack	8 Tube PCR Strip x 80	DG-DB-FLUA-PK010	2,419€

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Performance characteristics have not been established for diagnostic use in humans.

