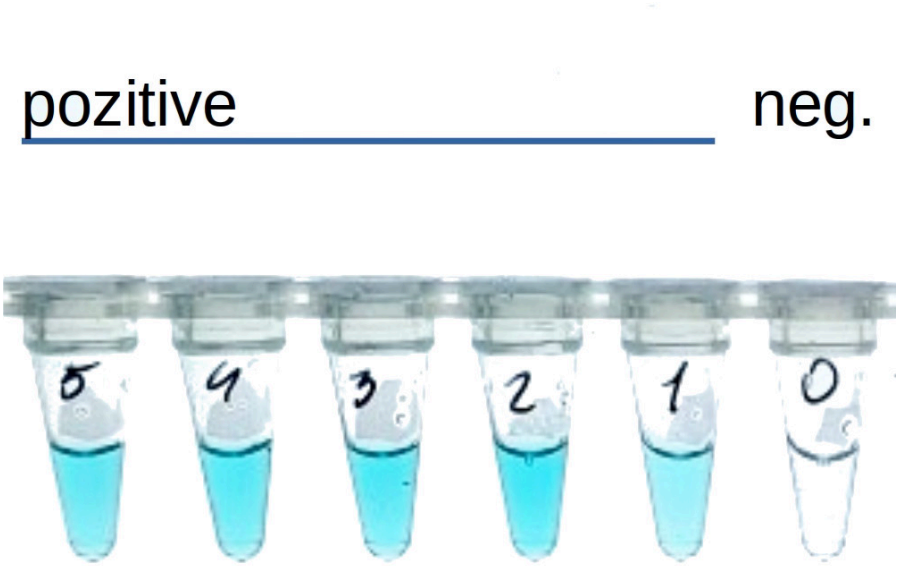
RT-LAMP Assay Colorimetric Kit

Datasheet, Version 2/2016

protean
Forefront of Biotechnology

Catalog #	2108
Synonyms	LAMP Kit
Type	
Source	
Species	
Tag	
Form	Kit
Purity	NA
Shipping	Ice pack



Introduction

Protean Ltd. has developed technology for a simple detection of various pathogens and specific DNA and RNA sequences based on isothermal amplification. The technology profits from in-house certified production of amplification enzymes BstI DNA polymerase and ProRT Reverse Transcriptase.

Description

RT-LAMP (reverse transcription and loop-mediated isothermal amplification) allows amplification of nucleic acids with a high specificity, efficiency and speed under isothermal conditions - ie. at constant temperature, achievable in incubators, hybridization ovens or dry blocks. The results are reliably read based on the color change by naked eye or by mobile device. The test includes all components necessary for the detection of any target of interest, except specific primers.

Application

Screening of samples for pathogen specific target or any other nucleic acid target. Compatible with various sampling methods - saliva, gargling, nasopharyngeal swabs, BAL, sputum. Clearly visible colorimetric detection by a naked eye or a mobile device. Colorless or azure positive samples.

Purification method

Nucleic acid purification is usually not required. It must be tested for each specific application.

Formulation

The kit includes all reagents needed (except specific primers), positive control & primers, and reaction tubes with a dye spotted in the cap. Reaction tubes included are 8-strips or 96-well plate supplemented with dye-spotted caps.

Specificity

Specificity is dependent on the LAMP primers used. The sensitivity corresponds to RT-PCR at Ct 35-38.

Storage

Enzymes -20C. Kit components RT.

Protean s.r.o.
Pod Lesem 9
373 16 Dobra Voda u CB
The Czech Republic

ISO 9001 & ISO 13485
CERTIFIED

www.protean.bio
info@protean.bio
+420 380 120 427

Analyte specific reagent (ASR) manufactured under ISO 13485.
Country of origin: Czech Republic

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