

SARS-CoV-2 Omicron variant testing towards FastProof™ 30 min-TTR SARS-CoV-2 RT-LAMP Kit by Zenostic

Zenostic proudly announce that our FastProof™ 30 min-TTR SARS-CoV-2 RT-LAMP Kit¹ can effectively detect Omicron and any variant of SARS-CoV-2, namely, Alpha, Beta, and Delta.

According to WHO's publication on November 26th, 2021, Omicron was defined as SARS-CoV-2 Variant of Concern (VOC)². Resulting in genetic variation, the Omicron variant has been naturally mutating over time. The virus, however; is expected to be different from any other variants in just a small degree. Fast and accurate detection of the virus is still a main factor to handle and control the pandemic for every country.

For general concerns of a test kit's efficiency in the market towards Omicron variant, Zenostic has cooperated with associated laboratories for FastProof™ 30 min-TTR SARS-CoV-2 RT-LAMP usage test and found that our test kits can accurately detect the Omicron variant by database sequence analysis^{3,4} and testing with confirmed Omicron variant sample, which is an effective proof that this new variant of the SARS-CoV-2 can be recognized by FastProof™ 30 min-TTR SARS-CoV-2 RT-LAMP Kit.

FastProof™ 30 min-TTR SARS-CoV-2 RT-LAMP Kit

Compared with general detection method, RT-PCR, FastProof™ 30 min-TTR SARS-CoV-2 RT-LAMP Kit has sensitivity and specificity at 96.51% and 99.28% respectively⁵. Our RT-LAMP kit can detect the virus in 30 minutes (not including sample collection and nucleic acid extraction), showing the results by the change of the colors of the RT-LAMP reagents. With an instruction manual included, the kit can be used for nasopharyngeal swab and throat swab⁶. To begin with extracting nucleic acid from a sample by the extraction kit and then add in FastProof™ 30 min-TTR SARS-CoV-2 RT-LAMP before incubating at 65°C for 30 minutes, the kits are ready to show the results. In case there is any genetic material of SARS-CoV-2 in a particular sample, the color will change from PINK to YELLOW (Positive). If not detected, the color remains PINK (Negative).

1 This test kit is approved by Thai FDA for emergency use authorization (EUA) by specialists or authorized persons for SARS-CoV-2 detection purpose only, not any other virus and pathogens.

2 WHO. Tracking SARS-CoV-2 variants : <https://www.who.int/en/activities/tracking-SARS-CoV-2-variants/>

3 National Center for Biotechnology Information : www.ncbi.nlm.nih.gov.

4 GISAID : www.gisaid.org

5 Manufacturer's clinical performance study

6 Fastproof™ 30 min-TTR SARS-CoV-2 RT-LAMP Kit Instructions for Use : <https://zenosticbio.com/fastproof-30-min-ttr-sars-cov-2-rt-lamp-kit/>

Zenostic is a biotech startup founded in 2017 by a group of Materials Science and Innovation, Faculty of Science Mahidol University. Our mission is to create, research and manufacture medical, agricultural and livestock test kits to improve people's life quality and safety. We continue to develop new innovations and platforms to serve the society's future needs, for example, diagnostic test kits for bacteria and viruses, and food borne pathogen detection kits in accordance with the company's resolution "We innovated for better life". For more information, please visit: www.zenosticbio.com

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