



Powerful tool
to protect
frontline workers,
open schools
and workplaces,
and screen
travelers



Vivid COVID-19 LAMP Direct-G diagnostic kit

The Vivid COVID-19 LAMP Direct-G diagnostic kit is designed to detect SARS-CoV-2 viral RNA in gargle samples without an RNA extraction step.

The kit contains a set of primers for the multiplexed detection of SARS-CoV-2 E, ORF1ab and N genes. This primer mix was specifically designed and optimized so that primer interactions do not lead to non-specific amplification products and thus false positive results that are relatively common to LAMP. The second set of primers detects the human RNase P gene, which serves as an internal control to verify sample collection and processing, RNA integrity, and test execution. Our proprietary, patent-pending colorimetric detection system, which is **not sensitive to the pH of the input sample**, enables interpretation

of the results by observing a reliable color change from magenta to yellow with the naked eye.

The kit is intended for use in **point-of-care locations (or diagnostic laboratories)** with appropriate safety standards, equipment, and instructed personnel.

One kit package is sufficient for 400 test reactions, which is enough to test 200 samples (200 reactions for SARS-CoV-2 and 200 reactions for RNase P) when used as recommended.



Possible to use
in mass on-site
screening



Detects virus from
easily collected
gargle sample

Nearly
as sensitive
as RT-qPCR tests



Simple sample
processing



MAIN FEATURES:

- **Innovative colorimetric detection system** – Vivid colors but pH independent
- Proprietary triplexed SARS-CoV-2 LAMP assay has limit of detection of 8 copies/rxn – **nearly as sensitive as RT-qPCR tests!**
- **100% diagnostic specificity and sensitivity** for clinical gargle samples with Ct < 34 as determined by RT-qPCR

No expensive
equipment
required
(e.g., real-time
PCR system)

