

PRIME STIDetect™ RAPID SCREENING TEST



PRODUCT BROCHURE

Molecular Rapid Screening Panel for the detection of Sexually Transmitted Infections

Prime STIDetect™ tests for various STIs including Gonorrhea, Chlamydia, Herpes, Hepatitis (B,C), Syphilis, Trichomoniasis, Mycoplasma, Gardenerella, *Candida albicans*, Ureaplasma, HPV (16,18) and HTLV (1,2).

Prime STIDetect™ is available as RT-LAMP and PCR assays. Prime STIDetect™ test is available in singleplex and multiplex options and works on most common RT-qPCR instruments.

PRODUCT DESCRIPTION

Prime STIDetect™ Rapid STI panel test detects various STI's including Gonorrhea, Chlamydia, Herpes, Hepatitis (B,C), Syphilis, Trichomoniasis, Mycoplasma, Gardenerella, *Candida albicans*, Ureaplasma, HPV (16,18) and HTLV (1,2) with high sensitivity and specificity.



OVERVIEW

- Go from sample to results in <80 min with PCR and <30 minutes with RT-LAMP.
- Very high analytical sensitivity and analytical specificity in detecting various STI pathogens.
- Extractionless protocol is also being tested, which will enable faster processing.

DECREASED RUN TIME

- Prime STIDetect™ assay produces results in <80 minutes with PCR and <30 minutes with RT-LAMP.

HIGH ACCURACY

- Prime STIDetect™ has been validated for various pathogens with high analytical sensitivity and specificity (>99%).

SUPPORTS PCR MACHINES

- Prime STIDetect™ supports multiple qPCR instruments and thermal cyclers / plate readers.

INCREASES REVENUE

- Prime STIDetect™ increases Lab throughput and billable revenue.

RT-LAMP & PCR TECHNOLOGY

Prime STIDetect™ is built for Reverse-Transcription Loop-mediated isothermal amplification (RT-LAMP) or Polymerase Chain Reaction (PCR) amplification.

1. ANALYSIS

- Genetic material is amplified faster and can be detected by fluorescence output.
- Amplification of genetic material is rapid and can be multiplexed.

2. HIGH SPECIFICITY

- Custom designed for accurate targeting of various pathogens for high specificity.
- Optimized to increase inclusivity of all strains of the pathogen.
- Highly optimized to reduce cross reactivity to other related species or genera.

3. HIGH QUALITY DETECTION

- Prime STIDetect™ recognizes the target pathogen genes emitting strong fluorescence for high quality detection with fluorescence readers.

4. TIME

- Prime STIDetect™ is optimized for rapid amplifications.
- RT- LAMP produces results from sample in <30 minutes and PCR assay produces results in <80 minutes.
- Extractionless protocols are being tested now, which will further reduce time.

PRODUCT PORTFOLIO AND FEATURES

1. PRODUCT OFFERINGS

- **Prime CovidDetect™**
Highly accurate, extractionless rapid RT-LAMP based COVID screening assay, which requires <30 min from sample to result.
- **Prime VarDetect™**
A highly accurate, rapid PCR based COVID variant detection assay for Alpha, Beta, Gamma, Delta and Mu variants.
- **Prime RespDetect™**
LAMP and PCR based detection assay for respiratory infections including Influenza A/B, RSV A/B, etc.
- **Prime VarDetectNGS™**
A rapid Illumina NGS assay for full genome SARS-CoV-2 sequencing supporting rapid turnaround times and small batch sizes up to 25 samples.

2. PRIME'S ADVANTAGES

High Innovation:

- Highly innovative Rapid LAMP and PCR assays for multiple microbes.
- Our team works with you to design and develop novel assays within 3-4 weeks.

Customization:

- Highly reliable assays that can be customized to your lab workflows.
- Our specialists work with your team during the entire process for successful execution of the assays.

3. PARTNERSHIPS

- Partners with academic institutions including NYU, UPenn and University of Alaska.
- Test kits have been validated in multiple labs in NY, CA, New Orleans, NC and PA.
- Partners with multiple labs including Summer Bio, VeroDx, HookDx, Unilab, Biolabs, SepsisMD and DNA Healthcare Solutions.

4. US SUPPLY CHAIN

- Partners with US ISO certified CMOs and has multiple reagent suppliers for its reagents.
- Can accommodate turnaround time of less than two weeks.
- One day shipping is available in US based on reagent availability.
- Bulk reagent supply ready to order.