

Luminex[®]

VERIGENE[®]

Enabling Better Care—Today.



VERIGENE[®] Gram-Positive Blood Culture Test
VERIGENE[®] Gram-Negative Blood Culture Test
VERIGENE[®] Enteric Pathogens Test
VERIGENE[®] Respiratory Pathogens *Flex* Test

VERIGENE[®] System

The VERIGENE[®] System offers automated, cost-effective multiplex capabilities that rapidly and accurately detect infectious pathogens and drug resistance markers, without relying on time-consuming culture methods.

Through delivery of this time-critical information, the VERIGENE System enables faster patient treatment decisions, leading to reduced length of stay, improved patient outcomes, lower costs, optimized antibiotic therapy, and a reduced spread of antibiotic resistance.¹⁻⁴

Multiplex Infectious Disease Testing in an Automated, On-Demand Format

- Tests are performed with a sample-to-answer workflow and can be run on-demand with a scalable throughput.
- Assays for the VERIGENE[®] System feature <5 minutes of hands-on time and deliver results in approximately 2 hours.
- All tests are IVD Cleared and CE-IVD.

Instrumentation

The VERIGENE[®] System consists of a VERIGENE Reader and one or multiple VERIGENE Processor SPs. The VERIGENE System's scalability and ease of use make it a valuable platform for both hospital-based and reference laboratories, regardless of size and testing demands.

The **VERIGENE[®] Processor SP** combines automated nucleic acid extraction, purification, amplification, and hybridization in each module. Users can run VERIGENE assays on-demand—without the need for batch processing, specially trained personnel, or specialized facilities.



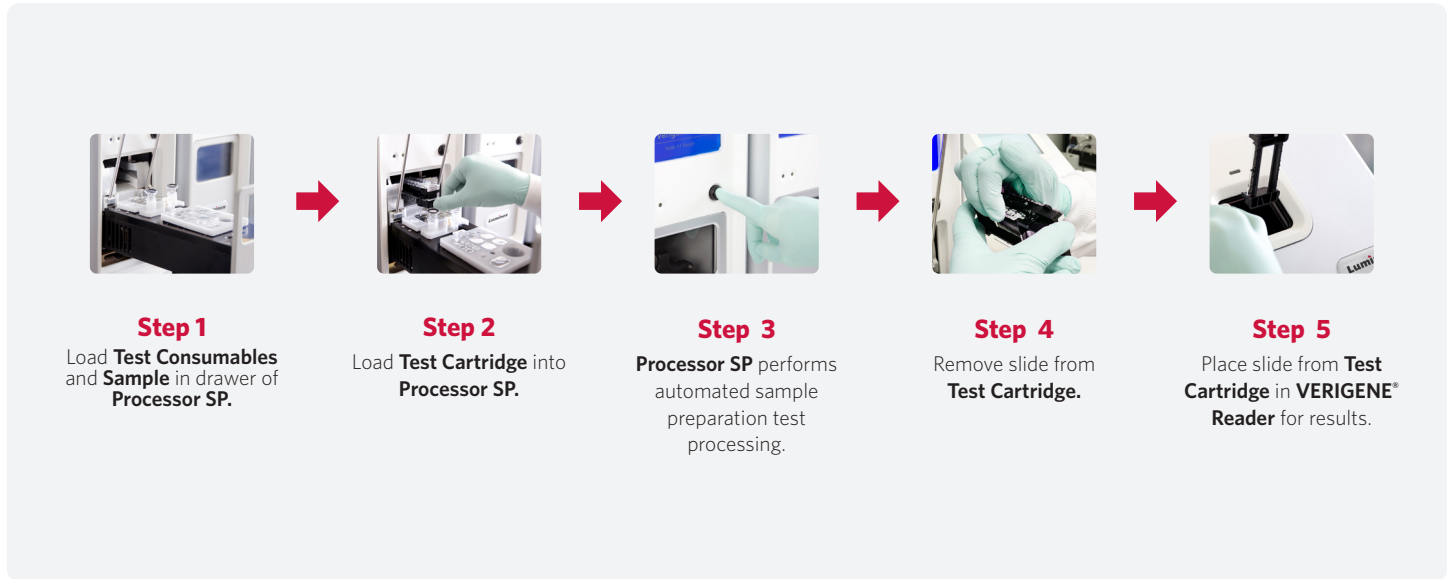
**VERIGENE[®]
Processor SP**

**VERIGENE[®]
Reader**

The **VERIGENE[®] Reader** manages sample information, reads results, and allows for result printing, internal data storage, and LIS connectivity—without the use of an external PC.

Workflow

The workflow for the VERIGENE® System takes less than five minutes of hands-on time, and delivers results in approximately two hours.



Test Cartridges

Each VERIGENE® Test Cartridge is designed for multiplex analysis of one patient sample using nanogrid technology, which provides a versatile and extremely reliable foundation for the VERIGENE System's menu of infectious disease tests. The VERIGENE Test Cartridge is a single-use, self-contained test unit comprised of two components:

1. **Reagent Pack** - A microfluidic cassette that contains all the hybridization reagents needed for a single test.
2. **Substrate Holder** - Contains a glass slide that serves as a solid support for the microarray used to capture targeted nucleic acids.



Syndromic Testing

Using a syndromic approach enables you to test for a broad range of pathogens in a single sample. The simultaneous identification of pathogens and antimicrobial resistance markers helps accelerate treatment decisions, which leads to improved patient outcomes.

Bloodstream Infections

VERIGENE® Gram-Positive Blood Culture Test (BC-GP)

The VERIGENE BC-GP Test can aid in the diagnosis of 15 bacterial bloodstream infections and the identification of 3 resistance markers, but is not intended to be used to monitor the status of infection.



VERIGENE® Gram-Negative Blood Culture Test (BC-GN)

The VERIGENE BC-GN can aid in the diagnosis of 14 bacterial bloodstream infections and the identification of 6 resistance markers, but is not intended to be used to monitor the status of infection.



Gastrointestinal Tract Infections

VERIGENE® Enteric Pathogens Test (EP)

The VERIGENE EP Test can detect 9 of the most common bacterial and viral targets from liquid or soft stool preserved in Cary-Blair media.



Flex[®] Testing

Flex[®] Testing enables labs to test for a broad menu of infectious disease targets in a single cartridge **while paying only for selected results**. Coupled with the ability to reveal additional results on-demand when necessary, Flex Testing gives labs and clinicians the freedom to provide patient-specific testing based on symptoms, history, and clinical guidelines.

Respiratory Tract Infections

VERIGENE[®] Respiratory Pathogens Flex Test (RP Flex)

The VERIGENE RP Flex Test (RP Flex) is a multiplex, qualitative test that detects 16 viral and bacterial nucleic acids in nasopharyngeal swab (NPS) samples.



Ordering Information

Product Name	Part Number
Assays	
VERIGENE® Respiratory Pathogens <i>Flex</i> Test Kit	20-005-024
VERIGENE® Respiratory Pathogens <i>Flex</i> Amplification Reagent Kit	20-012-024
VERIGENE® Gram-Positive Blood Culture (Nucleic Acid Test Kit)	20-005-018
VERIGENE® Gram-Positive Blood Culture Test Utility Reagent Kit	20-012-018
VERIGENE® Gram-Negative Blood Culture Nucleic Acid Test Kit	20-005-021
VERIGENE® Gram-Negative Nucleic Acid Utility Reagent Kit	20-012-021
VERIGENE® Enteric Pathogens Nucleic Acid Test Kit	20-005-023
VERIGENE® Enteric Pathogens Nucleic Acid Test Amplification Kit	20-012-023
System	
VERIGENE® Processor SP	10-0000-07
VERIGENE® Reader	10-0000-02

REFERENCES

1. Beckman M, Washam M, DeBurger B, et al. Reliability of the Verigene system for the identification for Gram-positive Bacteria and detection of antimicrobial resistance markers from children with bacteremia. *Diagn Microbiol Infect Dis.* 2019;93(3):191-195. doi:10.1016/j.diagmicrobio.2018.10.005.
2. Binnicker MJ. Multiplex molecular panels for diagnosis of gastrointestinal infection: performance, result interpretation, and cost-effectiveness in positive blood cultures. *J Clin Microbiol.* 2015. 53:3723-3728. doi:10.1128/JCM.02103-15.
3. Walker T, Dumadag S, Lee C, et al. 2016. Clinical impact of laboratory implementation of Verigene BC-GN microarray-based assay for detection of Gram-negative bacteria in positive blood cultures. *J Clin Microbiol* 54:1789-1796. doi:10.1128/JCM.00376-16.
4. Felsenstein S, Bender J, Sposto R, et al. Impact of a Rapid Blood Culture Assay for Gram-Positive Identification and Detection of Resistance Markers in a Pediatric Hospital. *Arch Pathol Lab Med.* 2016;140(3):267-275. doi:10.5858/arpa.2015-0119-OA.

Luminex
complexity simplified.

orders@luminexcorp.com or support@luminexcorp.com

For In Vitro Diagnostic Use. Products are region specific and may not be approved in some countries/regions. Please contact Luminex at support@luminexcorp.com to obtain the appropriate product information for your country of residence.

©2020 Luminex Corporation. All rights reserved. Luminex, *Flex* and VERIGENE are trademarks of Luminex Corporation, registered in the US and other countries.

luminexcorp.com/the-verigene-system/

HEADQUARTERS

UNITED STATES

+1 512 219 8020

info@luminexcorp.com

EUROPE

+31 73 800 1900

europe@luminexcorp.com

CANADA

+1 416 593 4323

info@luminexcorp.com

CHINA

+86 21 8036 9888

info@luminexcorp.com

JAPAN

+81 3 5545 7440

info@luminexcorp.com

BR259697