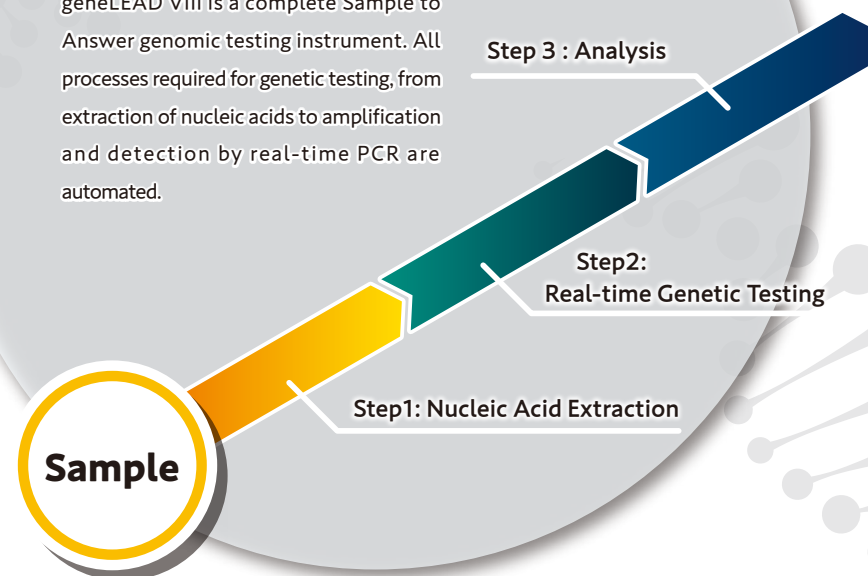


# geneLEAD VIII

- Fully Automated, Sample to Answer Genetic Testing
- Fast, reliable and user friendly

## geneLEAD VIII testing workflow

geneLEAD VIII is a complete Sample to Answer genomic testing instrument. All processes required for genetic testing, from extraction of nucleic acids to amplification and detection by real-time PCR are automated.



1.



Dedicated and Validated PCR reagents

2.



A flexible system for improved work flow

Can be used as a complete sample to answer system., or for nucleic acid extraction only, or for qPCR only.

3.



User friendly software ensures correct testing setup.

4.

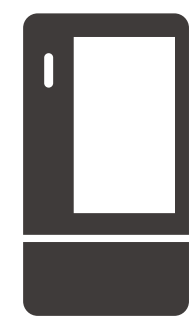


Safety considerations

- UV lamp, HEPA filter
- disposable reagent cartridges and consumables

4

Advantages



# geneLEAD VIII

- Fully Automated, Sample to Answer Genetic Testing
- Fast, reliable and user friendly

## geneLEAD VIII testing workflow

geneLEAD VIII is a complete Sample to Answer genomic testing instrument. All processes required for genetic testing, from extraction of nucleic acids to amplification and detection by real-time PCR are automated.

Step1: Nucleic Acid Extraction

Step2: Real-time Genetic Testing

Step 3 : Analysis

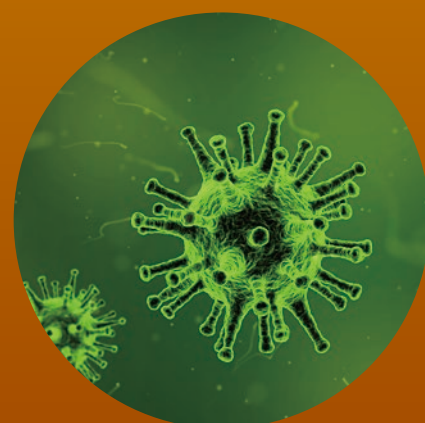
Sample

# 1.



## Dedicated PCR Reagents

PSS's Validated PCR reagents for research use:  
Mycobacterium tuberculosis (MTB), Influenza A /  
Influenza B / Respiratory Syncytial Virus (RSV),  
legionella, adenovirus.  
Consultation provided for commercial and laboratory  
developed testing.



Reagents

# 2.



## Instrument Flexibility

The GeneLEAD VIII utilizes MagDEA DX extraction reagents optimized for total genomic nucleic acids as well total RNA on many diverse sample types. A maximum of eight samples are processed in parallel, each with a identical or unique PCR program. Real time PCR is performed in eight independently controlled thermal cyclers with fluorescence detection across six different channels. The central PC controls of up to 6 units, making it possible random batching of eight samples.

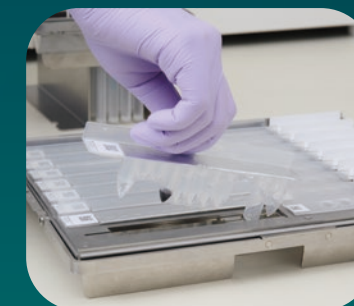


# 3.



## User Friendly Operation

The geneLEAD VIII is operated from an external PC and can be connected to the central server using its dedicated LIMS compatible software. Up to six instruments can be controlled from the one PC for batch processing of 48 samples. Prefilled, ready-to-use, reagent cartridges simply user set up and waste management. Software guides and prompts the user to ensure proper and valid test set up. Onboard barcode and QR code reading ensures traceability and integrity of samples, controls and reagents.

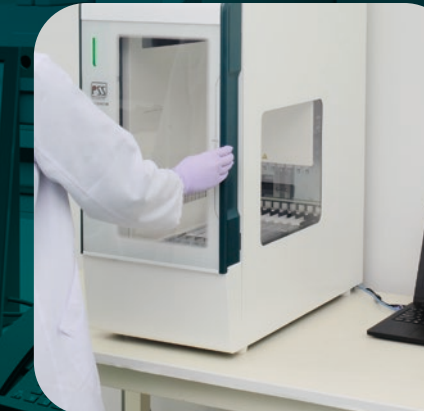


# 4.



## Safety Considerations

geneLEAD VIII was designed with today's laboratory safety concerns in mind. The instrument is equipped HEPA filter to remove any air borne contaminants during testing and a UV decontamination lamp for post process sterilization.





geneLEAD VIII Specification

Instrument Type	Benchtop
Dimensions	Approx. W35 x D70 x H77cm
Weight	Approx. 80kg
Single Instrument Sample Throughput	1 to 8 samples (batch processing)
Six Instrument sample throughput	up to 48 samples (random batch access)
Process Time	90 – 120 mins (depending on PCR chemistry)
Thermal Control	8 Independently controlled thermal cyclers. Temperature Range: 40 to 99 °C. Ramp Rate: 3.4 °C/sec Extraction Heat Block: 65 to 80°C
Sample Volume	200uL/400uL/1000uL
Elution Volume	50uL/100uL/200uL
PCR reaction solution volume	20~50μL
Detection System	6 Fluorescence Channels 6 (Ch1: FAM, Ch2: HEX, Ch3: ROX, Ch4: TAMRA, Ch5: Cy5, Ch6: Cy5.5)

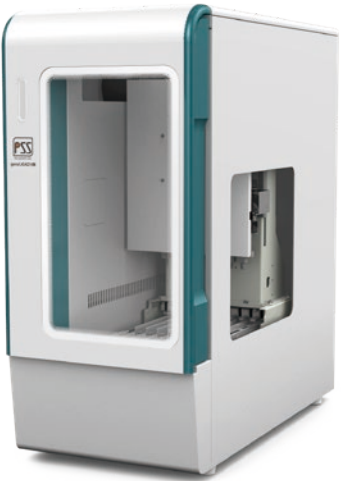
Related Products

Prepackaged Reagents for Nucleic Acid Extraction

Product Name	Description
MagDEA Dx SV	Total nucleic acid extraction from sample volumes of 200 and 400uL (48 Extractions)

Consumables

Product Name	Description
geneLEAD VIII Consumable Set	Consumables for nucleic acid extraction (48 Extractions)
geneLEAD VIII PCR Cassette	Real-time PCR tubes for geneLEAD VIII (192 reactions)
geneLEAD VIII PCR Reagent Cassette Set	Real-time PCR Cassettes for geneLEAD VIII (192 reactions)





Complete Sample to Answer  
genomic testing instrument


geneLEAD VIII

\* Product performance, specifications and appearance described in this catalog are subject to change without prior notice.

Contact details

 Precision System Science Co., Ltd.  
<http://www.pss.co.jp>

 Precision System Science USA, Inc  
<http://www.pssbio.com>

 Precision System Science Europe GmbH

