

geneLEAD VIII Specification

Instrument Type	Benchtop
Dimensions	Approx. 35 x 70 x 77cm (WDH)
Weight	Approx. 80kg
Single Instrument Sample Throughput	1 to 8 samples (batch processing)
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	200 µL / 400 µL / 1000 µL
Elution Volume	50 µL / 100 µL / 200 µL
Total PCR volume	20~50 µL
Detection System	6 Fluorescence Channels 6 (Ch1: FAM, Ch2: HEX, Ch3: TAMRA, Ch4: ROX, Ch5: Cy5, Ch6: Cy5.5)
Power source	AC100~120 V ± 10 %, AC200~240 V ± 10 %, 50/60 Hz, 400 VA



Complete sample to result system
for molecular diagnostics

geneLEAD VIII



Related Products

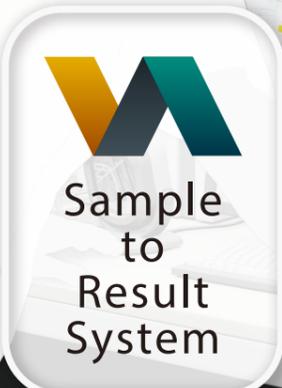
Prefilled Reagents for Nucleic Acid Extraction

Product Name	Description
MagDEA Dx SV	Total nucleic acid extraction from sample volumes of 200 and 400 µL (48 extractions)
MagDEA Dx MV II	Total nucleic acid extraction from sample volumes of 1,000 µL (48 extractions)

Consumables

Product Name	Description
geneLEAD VIII Consumable Set	Consumables for nucleic acid extraction (48 extractions)
geneLEAD VIII PCR Reaction Cassette set	Real-time PCR tubes for geneLEAD VIII (192 reactions)
geneLEAD VIII PCR Reagent Cassette Set	Real-time PCR Cassettes for geneLEAD VIII (192 reactions)
2.0mL Cryopreservation Tube W/Cap	Consumable for MagDEA Dx MV II (200 pcs)

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

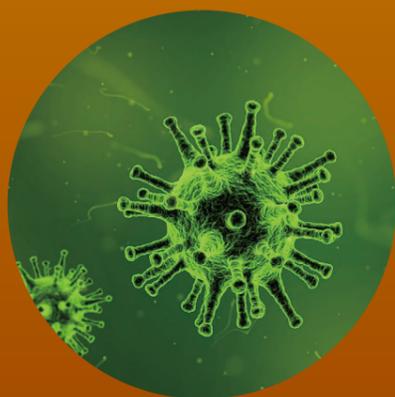


1.



Sample to Result

The geneLEAD VIII has three operational modes for versatile sample processing; Complete nucleic acid extraction combined with PCR/nucleic acid extraction only/PCR only. GeneLEAD VIII software allows the programming and storage of user-specific PCR protocols.



2.



Instrument Flexibility

The geneLEAD VIII utilizes MagDEA Dx extraction reagents optimized for total nucleic acids or total RNA from a variety of sample types. A maximum of eight samples can be processed in parallel, while the PCR program can be selected individually for each sample. Real-time PCR is performed in eight independently controlled thermal cyclers with fluorescence detection across six different channels.

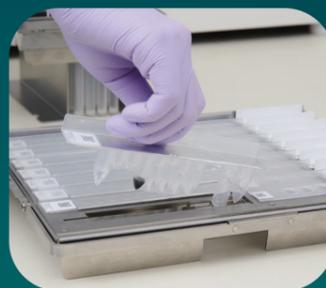


3.



User-Friendly Operation

The geneLEAD VIII is operated from an external PC and can be connected to the central server using a dedicated LIMS compatible software. Prefilled, ready-to-use, reagent cartridges simplify user setup and waste management. The software guides and prompts the user to ensure a proper and valid test setup. Onboard barcode and QR code reading ensure 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 with a HEPA filter to remove airborne contaminants during testing and a UV decontamination lamp for post-process sterilization.



Complete sample to result system for molecular diagnostics



geneLEAD VIII