

GENEQUALITY 2050

TwentyFifty

Fully automated sample-to-result platform designed for the extraction of nucleic acids, Real-Time PCR and comprehensive result reporting.








Experience a standardized and efficient workflow that delivers high-quality, reproducible results through innovative features and optimized protocols.

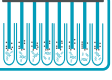




This integrated system combines dedicated hardware and software to manage biological samples directly from the primary tube to the final diagnostic outcome.







KEY FEATURES & PERFORMANCE

- 32**  **Optimized Throughput Capacity:** Process up to 32 samples per run, maximizing laboratory productivity and efficiency.
- 20**  **Versatile PCR Setup:** Prepare up to 20 different assays in a single session, offering unparalleled flexibility for diverse diagnostic needs.
- from 100**  **Fast Workflow:** Complete protocol execution times start from 100 minutes, depending on the specific protocol and sample number.
-  **Primary Tube Loading:** Supports direct loading of primary tubes (11 mm to 16 mm diameter) with automatic barcode identification, eliminating the need for manual adapters.
- up to 1000 µL**  **Advanced Liquid Handling:** Air displacement pipette system (up to 1000 µL) with barometric and capacitive liquid sensors, including clot detection for maximum accuracy.

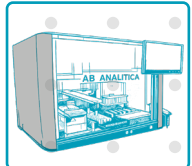
TECHNICAL FEATURES & INTEGRATED MODULES

- 32**  **Nucleic Acid Extraction:** Utilizes established magnetic bead-based technology for fast and efficient nucleic acid isolation.
- 48**  **Integrated Thermal Cycler:** Includes a built-in 4-channel Real-Time PCR thermocycler, ensuring a fully integrated process from extraction to amplification.
-  **Thermal Control:** Equipped with an extraction module featuring heaters up to 115°C and an active cooling block that maintains PCR reagents at 4°C.
-  **Smart Vision System:** An internal vision system provides active loading control and process verification to ensure error-proof operations.
- 15.6"**  **Intuitive User Interface:** Managed via a high-sensitivity 15.6" touch screen, designed for simple and quick interaction even while wearing laboratory gloves.

SAFETY, MAINTENANCE & CONNECTIVITY

- IVDR**  **Compliance & Quality:** The system is CE-IVD marked and fully compliant with Regulation (EU) 2017/746 on in vitro diagnostic medical devices (IVDR).
-  **Enhanced Decontamination:** Built-in UV lamps and a HEPA filter ensure rigorous daily decontamination and a safe working environment.
-  **Fully Integrated:** Offers optional LIS integration for automated data storage and simplified laboratory management.
-  **Advanced Tracking:** Includes an internal database for reagent and sample tracking, alongside a dedicated module for detailed result analysis.

TECHNICAL SPECIFICATIONS

-  **Dimensions:** 965 mm (W) x 769 mm (H) x 748 mm (D).
- Weight:** 100 Kg.
- Connectivity:** Equipped with four USB ports and one 1 Gbps Ethernet port.
- Noise Level:** Operates quietly with a noise level of ≤65 dBA.



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