

INFINITI®

The Automated Multiplexing Molecular Diagnostics Solution

AutoGenomics



Minimal hands-on time increases
laboratory productivity

Integrity of results ensured by
unique technology

Genomic and proteomic analysis on
one platform

Compelling economics for a wide
spectrum of applications

The Automated Multiplexing Molecular Diagnostics Solution

INFINITI®

The **INFINITI®** analyser is an automated, multiplexing microarray platform that integrates all discrete test processes such as sample handling, reagent management, cy station and a temperature cycler for denaturing nucleic acids for allele-specific primer extension. To avoid contamination of samples or reagents, disposable pipette tips are used for each assay step.

The **INFINITI®** analyser is an instrument used for clinical multiplex systems intended to measure and sort multiple signals from clinical samples (e.g. blood). The analyser is designed to measure fluorescence signals of labeled DNA target hybridised to **BioFilmChip®** microarrays. The analyser automates the assays and integrates all the discrete processes of sample (PCR amplicons) handling, reagent management, hybridisation, detection, and result analysis. The assays are processed automatically and read by a built-in confocal microscope. Signals are analysed and the results are presented in a numerical format.

The **INFINITI®** analyser hardware is controlled by the **Qmatic™** operating software which is installed within the on-board computer and utilises a LCD screen display. The **Qmatic™** operating software has a schedule manager that is capable of controlling all operations of the analyser

such as assay protocol, fluid handling, robotics, optical detection and result analysis. Results are available for review via the integrated screen and can be exported after the measurement.

The **INFINITI®** analyser has been designed to operate on a „**Load & Go**“ concept. To run an application the operator generates a work list, loads samples, **BioFilmChip®** microarray magazines as well as **Intellipac®** and other reagent modules and walks away: **Load & Go!**

The **INFINITI®** analyser uses a proprietary film-based microarray technology that combines sophisticated process automation, reagent management and software technology to deliver „sample-to-result“ without manual intervention. It offers significant workflow improvements and cost effectiveness for the laboratory.

Minimal hands-on time increases laboratory productivity

- The **BioFilmChip®** provides multiplexing capability.
- The **Qmatic™** software manages all test processes with an easy user interface.
- The **Intellipac®** reagent management module contains all appropriate reagents, manages inventory and stores relevant reagent data.

Integrity of results ensured by unique technology

- **BioFilmChip®** microarray ensures accurate and reproducible results.
- Built-in assay-specific controls for PCR products, primer extension, hybridisation and washing.

Genomic and proteomic analysis on one platform

- Discrete test processes integrated into one self-contained analyser: sample and reagent handling, hybridisation, detection and result analysis.
- Performs SNP and STR detection, gene expression and protein analysis on same unit.

Compelling economics for a wide spectrum of applications

- **Infectious Diseases**
HPV-HR QUAD, Respiratory Viral Panel Plus, Flu A – Swine H1N1, STD-6 QUAD, CT-NG QUAD, Leuko QUAD, UroGen QUAD, Bacterial Vaginosis QUAD, Candida Vaginitis QUAD, MDR-TB (Drug Resistance), NTM (Nontuberculous Mycobacteria)
- **Pharmacogenetics**
Warfarin Assay, 2C9-VKORC1, 2D6, 2C19, 2C19+, 3A4, 3A5, MDR-1, UGT1A1
- **Cancer**
HPV-HR QUAD, NAT-2, CHEK2, 5-FU, TAMX3, BCP-AJ, KRAS-BRAF, KRAS, BRAF, BRAF XP*, EGFR*
- **Genetics Disorders**
FII, FV Leiden, MTHFR, FII-FV Leiden, FII-FV Leiden-MTHFR, CFTR31, Ashkenazi Jewish Panel, FMF*, ApoE*

* coming soon

Step 1: Sample Preparation



Step 2: Load the INFINITI® Analyser



Step 3: Automated Processing Inside the INFINITI® Analyser



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** for more information:
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