Idylla™

Going molecular has never been easier

Idylla[™], Biocartis' fully automated, real-time PCR based molecular diagnostics system, is designed to offer physicians fast access to clinical molecular diagnostic information, anywhere and anytime. The Idylla™ system works on-demand in virtually any setting, allowing also de-centralized laboratories to rapidly report results. Idylla™ covers the entire process from sample to result in a time frame of 35 to 120 minutes.

This allows laboratories to report sameday results, ensuring physicians have the information needed to make timely decisions. The fully integrated system enables clinical laboratories to perform a broad range of applications, including oncology, infectious diseases and genetic tests.

" The Idylla[™] system is so easy to use, we don't have to plan our work. With Idylla[™] in our laboratory, we can run samples on-demand."

> Mark Kockx MD, PhD, Managing Director Pathologist

Ease of use

24/7

Less than 2 minutes hands-on time

Access on-demand

Run samples on-demand, no need for batching

 $\xrightarrow{\rightarrow} Speed$



Sample to result in 35 to . 120 minutes

Detects up to 30 molecular targets in standard mode (1)

Currently, molecular diagnostics involves a series of specialized, laborintensive and time-consuming steps. To optimize costs and processing times, traditional molecular diagnostics tests are mainly performed on multiple instruments, in batches and operated by highly trained personnel.

With its compact design and unrivaled ease of use, Idylla™ overcomes the traditional barriers of molecular diagnostics, making these types of tests widely accessible to all types of clinical laboratories. Idylla™ is the

only system that requires less than 2 minutes of operator time to run a sample. The fully integrated sampleto-result solution eliminates the need for manual sample preparation, addition of buffers or master-mix, premixing of reagents or centrifugation.

After the patient sample is inserted, the cartridge is hermetically sealed to prevent the spread of any DNA amplification products which might cause contamination of the laboratory environment or equipment.

Just add the sample, insert the cartridge in the system and walk away.

⁽¹⁾ Specific assay protocols are under development to enable the detection of more than 30 biomarkers per sample.

Unrivaled ease of use

All processing steps in one powerful cartridge



(1) Scan sample & cartridge FFPE, swab, blood, urine, stool, sputum, tissue



(2) Load sample in the cartridge



(3) Insert the cartridge in the Idylla[™] system

Liquefaction



Cell Lysis

DNA/RNA Extraction

Real-time PCR Amplification & Detection

Data Analysis & Reporting

- Homogenization of solid/viscous samples by using chemical reagents, enzymes, heat and high-intensity focused ultrasound (HiFU).
- Disruption of the cells, containing nucleic acids to be analyzed, by using chemical reagents, enzymes, heat and HiFU.
- Filtration of the lysed sample.
- Silica-based extraction; purification and concentration of nucleic acids.
- Real-time amplification in up to five individually controlled PCR chambers, each containing 25 µl of eluate. Primer/probe mixes and enzyme mixes pre-spotted in every PCR chamber, including primer/probe mix to detect/ amplify a sample processing control (e.g. endogenous control).
- Detection of 6 different fluorophores per PCR chamber, allowing identification of up to 30 different molecular targets in standard mode ⁽¹⁾ in each cartridge.
- Full interpretation of results.
- Automatic creation of Idylla™ test result report.



development to enable the detection of more than 30 biomarkers per sample.

⁽¹⁾ Specific assay protocols are under

| System overview | | | Idylla™ system specifications | Physical dimensionsOConsoleTew: 254 mm / 10 inchHih: 506 mm / 19,92 inchPrd: 254 mm / 10 inchPrd: 254 mm / 10 inchNoInstrumentW: 305 mm / 12,01 Inchh: 190 mm / 7,48 Inchd: 505 mm / 19,88 Inchd: 505 mm / 19,88 InchWeightconsole: 5,2 kginstrument: 20 kg |
|--|--|--|-------------------------------------|---|
| | | | Contact | Order information Idylla™ Instrument CE-IVD Idylla™ Console CE-IVD |
| Independent instruments Scalable up to 8 instruments per console Fully automated | Compact console Touchscreen user interface Built-in barcode scanner LIS and remote connectivity | Fully integrated test cartridge Contamination-controlled design All reagents on-board Applicable for a wide variety | | Biocartis' trademark and logo are Idylla™ is a CE-marked IVD in Euro Engineering prototype in United S |
| | capability | of clinical samples | ABACUS ALS. | Free Call: 1800 222 287 (AU |

perating conditions

Power requirements

Console

emperature: 15 ... 30 °C umidity: 40 ... 60 %RH ressure: 80 ... 106 kPa

Power Supply: 100-240 V; 50/60 Hz Average Power Consumption: 100 W Noise Level: Max. 49 dB(A)

Instrument

Power Supply: 100-240 V; 50/60 Hz Average Power Consumption: 200 W Noise Level: Max. 54 dB(A)

Cartridges

Single-use disposable cartridges Polypropylene construction

| 1 unit | Catalog# P0010 |
|--------|----------------|
| 1 unit | Catalog# P1010 |

registered in Europe. ppe States.

Molecular diagnostics beyond simplicity



Idylla™ Fully-automated molecular diagnostics system



Distributed by Abacus ALS

TGA Approval Pending