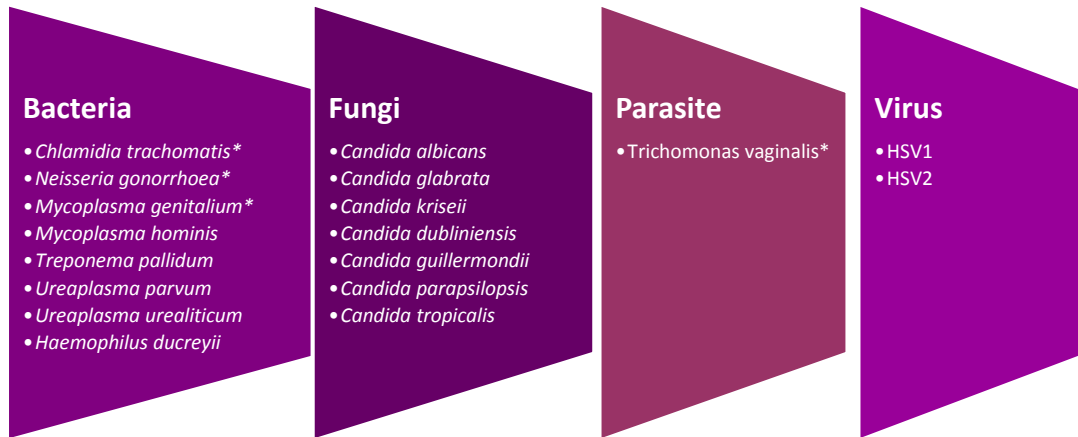




# CLART® STIs A&B

Detecting microorganisms causing urogenital tract infections



\* Microorganism detected with CLART STIs A. Remaining microorganism are included in CLART STIs B

## MAIN ADVANTAGES OF MULTIPLE MOLECULAR DETECTION OF MICROORGANISMS CAUSING STIs

Molecular diagnostics techniques provide greater sensitivity and standardize the multiple methodologies used so far for the detection of those microorganism causing urogenital tract infections.

Moreover, molecular diagnostics techniques reduce the drawbacks and limitations of conventional detection methods:

- Culture low sensitivity.
- Antibody titers variations due to antiviral treatment.
- Difficulties in microscopy detection.

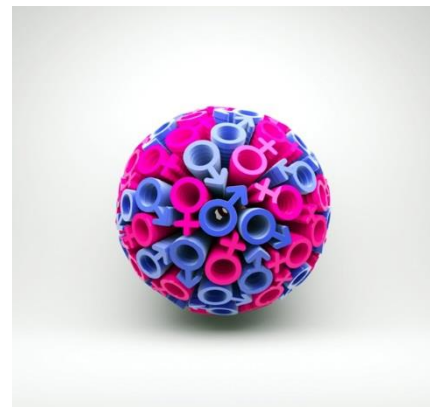
## GENOMICA FEATURES

- Both kits have been validated for automatic DNA extraction from urine and swabs (cervical and urethral).
- High sensitivity and specificity.
- No previous culture required.
- Three quality controls included per sample:
  - Genomic DNA control: validates the extraction performance and the presence of human sample.

- Amplification control: avoids false negative results.
- Biotin markers: check the proper performance of the reagents provided.
- Each target is detected in triplicate avoiding unspecific bindings.
- Considerably reduction of the turnaround time.

## DATA MANAGEMENT

- Automatic reading and interpretation of results by SAICLART®.
- User friendly report format (html, bmp).
- Printable, exportable and storable reports.



**Microarray Manufacturing**

Multiplexing and miniaturization of diagnostic test systems requires precise handling of picoliter and/or nanoliter volumes. SCIENION and its State-of-the-Art sciFLEXARRAYER technology guarantees the highest quality and consistency for array production. Using sophisticated optical systems online alignment, calibration and quality control of 100% of the produced tests is achieved. The combination of surface functionalization, printing, immobilization, optimization of incubation protocols, detection and data analysis results in high performance multiplex assays that you can rely on.



sciFLEXARRAYER SX for high-throughput production



sciFLEXARRAYER dispensing head with horizontal camera for drop volume measurement and vertical camera for online control of printed arrays in microtiter plate

**sciPLEXPLATES 96 - scalable throughput and cost reduction for multiplex tests**

SCIENIONS sciPLEXPLATES is a SBS compatible well plate format for generation of microarrays in wells in a 96-well footprint. Adapted to standard sizes, 8-well strips can be mounted in sets of up to 12 rows in a frame.

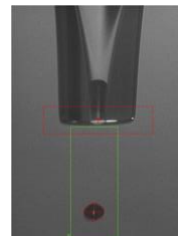
sciPLEXPLATES 96 are characterized by highly homogenous, defect-free surfaces optimized for microarray applications and are the perfect tool for miniaturization and multiplexing in microarray format. Tailor-made surface functionalization allows efficient immobilization of biomolecules to perform automated assays at a nanoliter scale, increasing flexibility and throughput while decreasing costs and time per assay. They are optimized for non-contact arraying using sciFLEXARRAYER technology and are compatible with standard microplate handling labware.

**Array Features**

- Superior spot morphology
- High accuracy and reproducibility
- CV of drop volumes less than 2%
- Typical spot size: 50-300 µm

**Quality Control & Assurance**

- DIN EN ISO 9001:2008 Quality Management System
- CE marked instrumentation for high throughput production
- Dust-minimized and controlled production environment (HEPA filtered air)
- Advanced in-process QC, 100% automated array control
- Functional QC: Application tests of randomly selected arrays
- QC certificate provided alongside with each batch of arrays



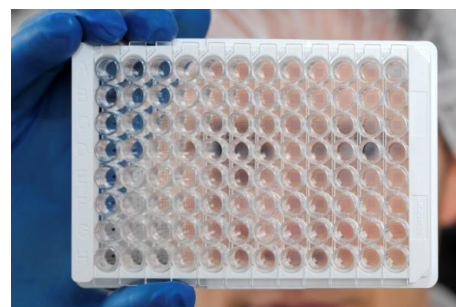
Active drop volume control



Online QC of printed STI's arrays

**Full Service Range**

- Supply of materials and preparation of source plates
- Microarray printing and processing (immobilization, blocking, washing)
- Quality control of supports, array parameters and array functionality
- Electronic documentation of production process
- Packaging according to customer requirements
- OEM microarray production



Highly sensitive and specific multiplex assays combined with microtiter plates and highly accurate and precise low-volume dispensing technology have the potential to be the future high-performance analytical platform of choice, enabling sensitive, rapid and cost-effective solutions for the modern clinical laboratory.

