

Genomtec ID True Point of Care Testing (POC)



Genomtec ID is a revolutionary genetic platform, with a superb diagnostic performance, the shortest time-to-result and ease of use for healthcare professionals that can be operated in the POC environment without the need of medical laboratory staff supervision.

It is empowered by our proprietary method of detection - SNAAT®, Streamlined Nucleic Acid Amplification Technology that utilizes isothermal nucleic acid amplification method for pathogenic DNA / RNA fragments recognition.

Thanks to its mobility and easy of use, Genomtec ID platform enables precise genetic testing to be performed at the point of care by:

- General practitioners
- Specialized medical doctors, e.g.. Gynaecologists, Respiratory or Emergency Medicine Consultants
- Nurses & Midwives
- Paramedics
- Pharmacists

Multiple benefits

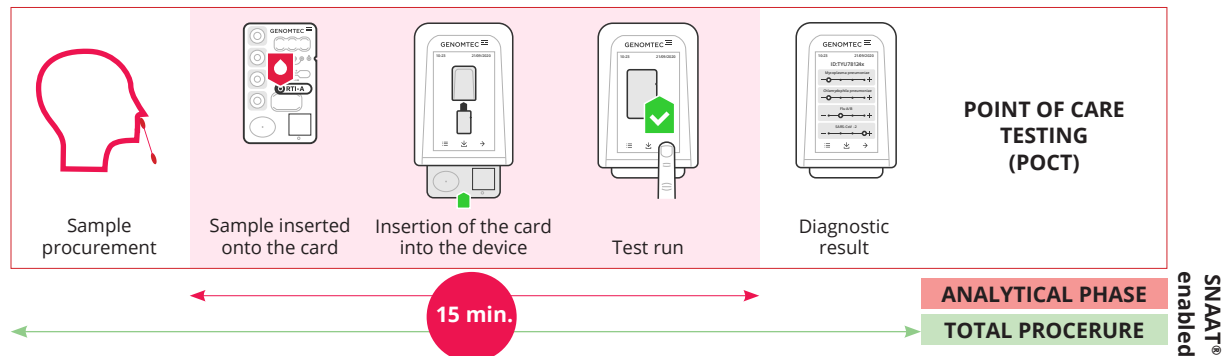
- Precision genetic diagnosis just in minutes **for patients**
- Small-format, mobile molecular diagnostic laboratory everywhere **for medical personnel**
- Informed prescribing prevents returning diseased cases therefore saves cost **for healthcare system**
- Enforces right use of antibiotics and anti-viral drugs therefore prevents development of antimicrobial resistance in patients' population

INNOVATION THROUGH SNAAT®

Genomtec ID platform offers true POC testing due to integration of:

- Photonic contactless heating
- Microfluidics
- Specially designed reaction mixtures and proprietary primer sets

As a result, Genomtec ID platform consists of an ultra-light and miniaturised genetic analyser that is paired with a Lab-On-Chip (LOC) microfluidic reaction card that internally executes fully automated diagnostic process of sample preparation, its purification and concentration with isothermal nucleic acid detection of up to five pathogenic targets simultaneously. The ground-breaking SNAAT® technology allows for integration of the whole diagnostic process onto one platform, automating the most cost- and time-consuming analytical phase of the process.



GENOMTEC ID DIAGNOSTIC FEATURES



Unmatched diagnostic parameters

Permits very high diagnostic sensitivity and specificity (up to 100%), similar to the traditional PCR method, combined with a very low limit of detection of the targeted genes (LOD even < 5 gene copies per reaction).



Versatility of testing

Permits use of different types of samples (such as swab, saliva, blood, urine) to identify a range of pathogens (viruses, bacteria, parasites, fungi).



Multiplexing

Up to 5 diagnostic targets embedded onto one reaction card creating a specific diagnostic panel of mixed pathogens.



Rapid diagnosis

Short time-to-result of approx. 15 to 25 min. (depending on the assay complexity).



Connectivity

Wireless, anonymised data transfer directly onto electronic device, e.g. mobile phone, tablet or other; can help to monitor the global epidemiological situation (suspected outbreaks).

DIAGNOSTIC PANELS

Planned are 4 types of diagnostic panels that support simultaneous analysis of up to five specific genetic targets (pathogens) from one clinical sample. These comprise of:

Atypical respiratory track infections (Atypical-RTI) with pathogens:

- Mycoplasma pneumoniae
- Chlamydia pneumoniae
- Flu A/B
- Respiratory syncytial virus (RSV) / SARS-CoV-2 (tbc)

Sexually transmitted infections (STI) with pathogens:

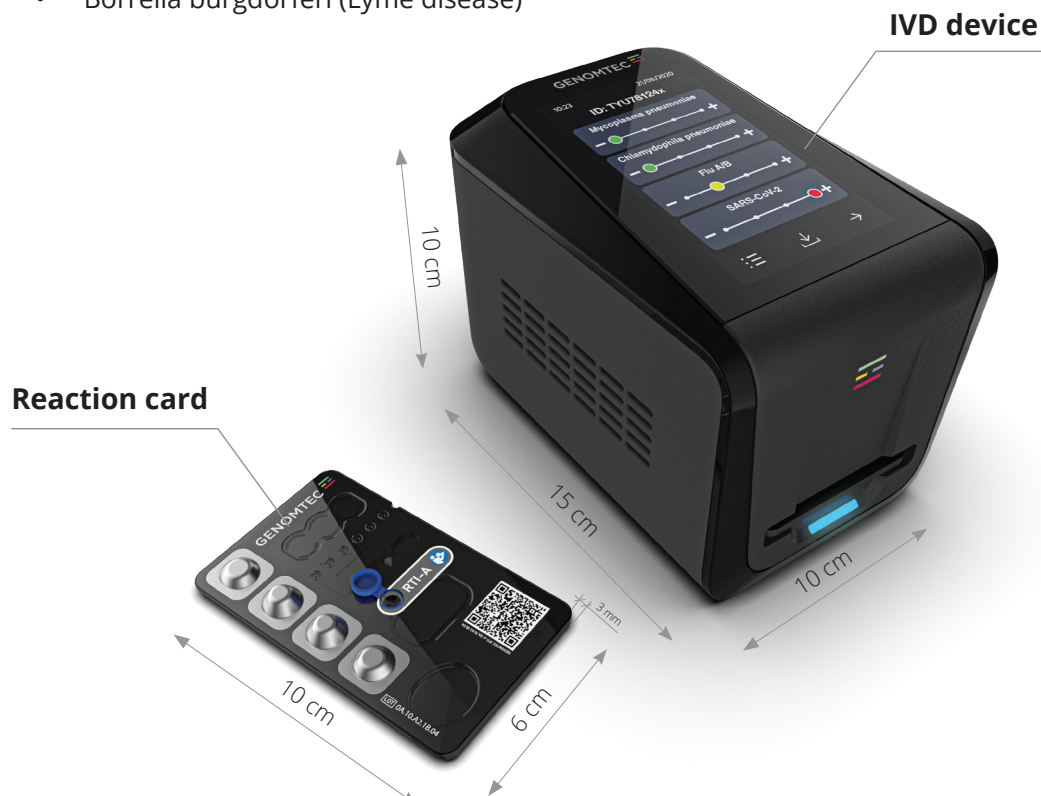
- Chlamydia trachomatis
- Neisseria gonorrhoeae
- HPV 16
- HPV 18

Respiratory track infections (RTI) with pathogens:

- Streptococcus pneumoniae
- Streptococcus pyogenes
- Haemophilus influenzae
- Flu A/B

Life-threatening systemic infections (SI) with pathogens:

- MRSA
- Neisseria meningitidis
- Borrelia burgdorferi (Lyme disease)



INTENDED USE SCENARIOS

Genomtec ID is characterised with versatile use cases that may include:

- Diagnosis of clinically hard-to-distinguish bacteria in vulnerable groups, i.e. children, elderly or immune-suppressed patients at primary & secondary care setting
- Diagnosis of bacterial from viral pathogens in respiratory tract infections during the first medical appointment to ensure proper treatment prescribed and minimize antibiotic drug resistance (ADR)
- Walk-ins for quick check-up on sexually transmitted infection status
- Emergency department for rapid screening of fast deteriorating patients with suspected sepsis
- Hospital Ward screening for atypical pathogens as well as pharmacy-based screening services



Genomtec ID IVD platform offers unique technological solution, combining the speed & simplicity of diagnosis provided directly by a healthcare professional at the point of care allowing for patient's personalised treatment.

Genomtec ID is planned for CE-IVD filling in mid-2022 and we are open for business partnering discussion right now.

To obtain product's additional information, discuss distributorship opportunities or investment, please contact us at:
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