



REF

AB0027



<https://appolonbiotech.com>

Carefully read the instructions on the labeling and/or in the user manual.

ABility STIplex Resist+

Multiplex real-time PCR kit for the detection of *C. trachomatis*, *N. gonorrhoeae*, *M. genitalium* (MG), and macrolide resistance markers in MG



Fast

End-to-end workflow completed in 2 hours (from extraction to result).



Flexible

Compatible with multiple specimen types and validated on open extraction platforms.



Accurate

Comprehensive panel detects CT, NG, MG and mutations associated with macrolide resistance, with robust controls for reliable results.

For professional use only.
ABility STIplex Resist+ is a Class C in vitro diagnostic medical device in compliance with Regulation (EU) 2017/746, currently undergoing CE marking.

Ref.:
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ABility STIplex Resist+

Multiplex real-time PCR kit for the detection of *C. trachomatis*, *N. gonorrhoeae*, *M. genitalium* (MG), and macrolide resistance markers in MG

DESCRIPTION

ABility STIplex Resist+ is a qualitative multiplex real-time PCR assay designed for the simultaneous detection of *Chlamydia trachomatis* (CT), *Neisseria gonorrhoeae* (NG), and *Mycoplasma genitalium* (MG), together with macrolide resistance-associated mutations in MG.

The kit provides clinicians and laboratories with a comprehensive solution to address the growing challenge of sexually transmitted infections (STIs) and the emerging antimicrobial resistance that complicates treatment strategies.

Features : ABility STIplex Resist+ enables multiplex detection of three major STI pathogens - *Chlamydia trachomatis* (CT), *Neisseria gonorrhoeae* (NG), and *Mycoplasma genitalium* (MG) - in a single reaction.

The kit also performs **resistance testing**, identifying key 23S rRNA mutations (A2058G/C/T, A2059G/C) in MG that are associated with macrolide resistance.

An internal control (human GAPDH) is included to verify sample quality and workflow reliability. Detection is based on TaqMan™ probe chemistry, ensuring robust and highly specific signal discrimination.

Each PCR reaction requires only 15 µL Master Mix and 5 µL DNA extract, with a throughput of up to 96 samples per plate.

The PCR run is completed in about 55 minutes, while the entire workflow including extraction takes 2 hours. For quality assurance, every run includes a full set of controls: **Positive Control, Negative Control**.

Performances : ABility STIplex Resist+ delivers reliable analytical performance for routine and investigational use. **Specific primers and probes** targeting multiple genes per pathogen (ompA, ORF6 for CT; porA, opa for NG; mgpB for MG) ensure accurate discrimination.

A **comprehensive control system**, Positive, Negative, internal control GAPDH, secures accuracy and reliability at every run.

The kit also enables **robust detection of 23S rRNA** mutations associated with macrolide resistance in *M. genitalium*.

Validated across operators and instruments, it ensures **consistent and reproducible results**.

Specimens : Vaginal, cervical, urine samples

Validated instruments :

- Nucleic acid extraction : Smart GUARD (Appolon Biotech)
- Real-time PCR amplification : Bio-Rad CFX Opus 96 Dx with CFX Maestro Dx SE software

..... 2 hours



Smart GUARD

Nucleic acid extraction
and PCR plate distribution



PCR run



Analysis
Result reporting



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