

MYCOPLASMA GENITALIUM

AMPLI-set-MYCO-G RT

Cat. n. 1.612RT

STDs (sexually transmitted diseases) refer to a variety of bacterial, viral and parasitic infections that are acquired through sexual activity. STDs are caused by more than 25 infectious organisms. As more organisms are identified, the number of STDs continues to expand. Common STDs include: chlamydia, gonorrhea, herpes, HIV, HPV, syphilis, mycoplasma, gardnerella and trichomoniasis.

The development of tests based on nucleic acid amplification technology has been the most important advance in the field of STD diagnosis. Because nucleic acid amplification is sensitive and highly specific, it offers the opportunity to use noninvasive sampling techniques to screen for infections in asymptomatic individuals .

Ampli-set –MYCO-G-RT is a test for the qualitative diagnosis of Mycoplasma Genitalium in urogenital swabs, urine, prostatic liquid and other biological samples.

Ampli-set –MYCO-G-RT is based on two steps: isolation of DNA from samples and amplification by Real Time PCR . The detection of Mycoplasma Genitalium DNA is due a specific fluorescent reporter dye probes (FAM) for *Mycoplasma genitalium*. Internal Control (IC) serves as an amplification control for each individually processed specimen and to identify possible reaction inhibition. IC is detected in a channel other than the *Mycoplasma genitalium* (Joe/Hex).

Analytical sensitivity: urogenital swabs GE/ml 5×10^2 - GE/ml urine 1×10^3

Specificity:100%

Principle of method

- A) Isolation of DNA
- B) Amplification and detection by Real Time PCR

Applicability: DNA extracted by urogenitals swabs,urine, prostatic liquid and other biological samples.

Number of Test: 110.

Stability: over 18 months if correctly stored

REAGENTS AND STORAGE

AMPLIFICATION & STORAGE	
PCR-mix	2-8°C
PCR-Buffer	2-8°C
Taq Polymerase	-20°C
Mycoplasma genitalium C+	2-8°C
NEGATIVE CTR C-	2-8°C
INTERNAL CTR IC	2-8°C

ANALYSIS OF RESULTS

The fluorescent signal intensity is detected in two channels:

- The signal from the *Mycoplasma genitalium* DNA amplification product is detected in the FAM/Green channel;
- The signal from the Internal Control amplification product is detected in the JOE/HEX/ channel.

Samples with Ct <40 in Fam channel are positive for *Mycoplasma genitalium* than the internal control in the channel JOE / Hex.

Samples with absent Ct or not detriminated in FAM channel and <40 in JOE/HexCampioni con Ct assente o indeterminato nel canale Fam e <40 in Joe/Hex channel are negative for *Mycoplasma genitalium*.

The result is invalid if either FAM or Joe channel give absent Ct , not determinated or >40. Il risultato non è valido se sia il canale Fam che JOE/Hex danno Ct assente, indeterminato o >40. In this case repeat the test with greater accuracy.

HEX Channel – Internal Control DNA detection

FAM Channel –Mycoplasma genitalium DNA detection

