AmpliSens® M.genitalium-ML/FQ-Resist-FRT PCR kit



For Professional Use Only

Instruction Manual

KEY TO SYMBOLS USED

REF Catalogue number Caution LOT Consult instructions for use In vitro diagnostic medical Contains sufficient for <n> IVD device VER Version Use-by-date Temperature limit Keep away from sunlight Manufacturer Internal control Date of manufacture C1, C2 **DNA-calibrators** Authorized representative Negative control of EC REP NCA in the European amplification Federal Budget Institute of

1. INTENDED USE

FBIS CRIE

AmpliSens® M.genitalium-ML/FQ-Resist-FRT PCR kit is an in vitro nucleic acid amplification test for detection of mutations in M.genitalium DNA associated with resistance to macrolides (in domain V of the 23S rRNA gene) and fluoroquinolones (in QRDR of the ParC gene) in DNA samples extracted from biological material (urethral, cervical, vaginal swabs and urine samples), using real-time hybridization-fluorescence detection of amplified

The PCR kit is recommended for use after the detection of *M.genitalium* DNA in the test samples using PCR kits manufactured by FBIS CRIE. The material for PCR is DNA samples extracted from test material.

Indications and contra-indications for use of the reagent kit

Science "Central Research Institute for Epidemiology

The reagent kit is used in clinical laboratory diagnostics for the analysis of biological material taken from the persons infected with *M.genitalium* in order to prescribe the correct

and timely therapy of the infection caused by M.genitalium. There are no contra-indications with the exception of cases when the material cannot be taken for medical reasons.

The results of PCR analysis are taken into account in complex diagnostics of NOTE:

2. PRINCIPLE OF PCR DETECTION

Principle of testing is based on simultaneous amplification of M.genitalium DNA fragments, including the location of the mutations associated with M.genitalium resistance to macrolides and fluoroquinolones, and DNA of the exogenous internal control sample (Internal Control (IC)¹) with real-time hybridization-fluorescence detection. IC allows to control all PCR-analysis stages of each individual sample and to identify possible reaction

Amplification of DNA fragments with the use of specific primers and Taq-polymerase enzyme are performed with the DNA samples obtained at the extraction stage. In the real-time PCR, the amplified product is detected with the use of fluorescent dyes. These dyes are linked to oligonucleotide probes, which bind specifically to the amplified product during thermocycling. The real-time monitoring of fluorescence intensities during the real-time PCR allows the detection of accumulating product without re-opening the reaction tubes after the

Oligonucleotide probes complementary to wild type M.genitalium DNA are used for mutation detection. The maximum range of target mutations can be detected with this

approach.

AmpliSens® M.genitalium-ML/FQ-Resist-FRT PCR kit uses "hot-start", which greatly reduces the frequency of nonspecifically primed reactions. "Hot-start" is guaranteed by using chemically modified polymerase (TaqF). The chemically modified polymerase (TaqF)

using crientically modified polynteriase (radpr). The crientically modified polynteriase (radpr) is activated by heating at 95 °C for 15 min.

Detection of mutations associated with *M.genitalium* resistance to macrolides and fluoroquinolones for one sample is performed in two tubes. In the first tube, *M.genitalium* DNA (gyr8 gene) and the presence (or absence) of macrolide resistance mutations (in domain V of the 23S rRNA gene) are detected; in the second tube, IC DNA and the presence (or absence) of fluoroquinolone resistance mutations (in QRDR of the ParC gene)

The results of amplification are registered in the following fluorescence channels:

Channel for fluorophore	FAM	JOE	ROX
Name of PCR-mix-FL		DNA-target	
PCR-mix-FL Mg/ML	domain V of 23S rRNA gene (wild type)	-	gyrB gene
PCR-mix-FL Mg/FQ	-	QRDR of ParC gene (wild type)	IC DNA (artificially synthesized sequence)

3. CONTENT

AmpliSens® M.genitalium-ML/FQ-Resist-FRT PCR kit is produced in 1 form: variant FRT-50 F, REF H-3971-1-CE

Reagent	Description	Volume, ml	Quantity
PCR-mix-FL Mg/ML	clear liquid from colorless to light lilac colour	0.6	1 tube
PCR-mix-FL Mg/FQ	clear liquid from colorless to light lilac colour	0.6	1 tube
PCR-buffer-B	colorless clear liquid	0.6	1 tube
Polymerase (TaqF)	colorless clear liquid	0.06	1 tube
TE-buffer	colorless clear liquid	0.2	1 tube
C1 Mg/ML	colorless clear liquid	0.2	1 tube
C2 Mg/ML	colorless clear liquid	0.2	1 tube
C1 Mg/FQ	colorless clear liquid	0.2	1 tube
C2 Mg/FQ	colorless clear liquid	0.2	1 tube

Variant FRT-50 F is intended for 55 reactions (including controls).

AmpliSens® M.genitalium-ML/FQ-Resist software (version 1.0) in Microsoft® Excel format for automated data processing and Operator manual.

4. ADDITIONAL REQUIREMENTS

- Sterile pipette tips with aerosol filters (up to 10, 100, 200 and 1,000 μ l).
- Tube racks.
- Vortex mixer
- PCR box.
- Real-time instruments (for example, Rotor-Gene Q (QIAGEN, Germany)).
- Disposable polypropylene tubes:
- a) screwed or tightly closed 1.5-ml tubes for reaction mixture preparation.
 b) thin-walled 0.2-ml PCR tubes with flat caps or strips of four 0.1-ml Rotor-Gene PCR
- tubes
- Pipettes (adjustable).
- Refrigerator for 2–8 °C.
 Deep-freezer at the temperature from minus 24 to minus 16 °C.
- Reservoir for used tips.
- Disposable powder-free gloves and a laboratory coat.

5. GENERAL PRECAUTIONS

The user should always pay attention to the following:

- Use sterile pipette tips with aerosol filters and use a new tip for every procedure. Store all extracted positive material (specimens, controls and amplicons) away from all other
- reagents and add it to the reaction mix in a distantly separated facility.

 Thaw all components thoroughly at room temperature before starting an assay
- When thawed, mix the components and centrifuge briefly
- Use disposable protective gloves and laboratory cloths, and protect eyes while samples and reagents handling. Thoroughly wash hands afterwards.
- Do not eat, drink, smoke, apply cosmetics, or handle contact lenses in laboratory work
- Do not use the PCR kit if the internal packaging was damaged or its appearance was changed.
- Do not use the PCR kit if the transportation and storage conditions according to the Instruction Manual were not observed.
- Do not use a kit after its expiration date.
 Dispose of all specimens and unused reagents in accordance with local regulations.
- Samples should be considered potentially infectious and handled in biological cabinet in compliance with appropriate biosafety practices.
- Clean and disinfect all samples or reagents spills using a disinfectant, such as 0.5 % sodium hypochlorite or another suitable disinfectant.

 Avoid inhalation of vapors, samples and reagents contact with the skin, eyes, and
- mucous membranes. Harmful if swallowed. If these solutions come into contact, rinse the injured area immediately with water and seek medical advice if necessary.
- While observing the conditions of transportation, operation and storage, there are no risks of explosion and ignition.
- Safety Data Sheets (SDS) are available on request. The PCR kit is intended for single use for PCR analysis of specified number of samples (see the section "Content").
 The PCR kit is ready for use in accordance with the Instruction Manual. Use the PCR kit
- strictly for intended purpose
- Use of this product should be limited to personnel trained in DNA amplification techniques.
- Workflow in the laboratory must be one-directional, beginning in the Extraction Area and moving to the Amplification and Detection Area. Do not return samples, equipment and reagents in the area where the previous step was performed.



Some components of this kit contain sodium azide as a preservative. Do not use metal tubing for reagent transfer.

IC is added at the stage of M.genitalium DNA extraction when analyzing samples with PCR kits for M.genitalium DNA detection manufactured by FBIS CRIE

6. SAMPLING AND HANDLING

AmpliSens® M.genitalium-ML/FQ-Resist-FRT PCR kit is intended for analysis of the DNA samples obtained earlier at the extraction stage from the test material in which M.genitalium DNA was detected

M.genitalium DNA samples can be stored before PCR-analysis:

at the temperature from 2 to 8 °C – for 1 week, at the temperature from minus 24 to minus 16 °C – for 1 year.

Only one freeze-thawing cycle is required.
Samples can be transported at the temperature from 2 to 8 °C for 1 day.

<u>Interfering substances and limitations of using test material samples</u>
In the course of the risk analysis, the following features of PCR kit content and analysis configuration which allow to exclude the influence of potentially interfering substances on the PCR method were determined:

- the DNA samples obtained earlier at the extraction stage from the test material and in which M.genitalium DNA has already been detected are used as test samples;
- use of specific primers and fluorescent-labeled oligonucleotides complementary to detected DNA targets;
- detection of IC DNA artificially synthesized sequence as exogenous internal control

If the signal of IC DNA and M.genitalium DNA is absent, the result of this analysis is invalid. Due to the indicated features of the PCR kit content and analysis configuration, it is not necessary to study the interfering properties of individual components of a biological sample.

7. WORKING CONDITIONS

AmpliSens® M.genitalium-ML/FQ-Resist-FRT PCR kit should be used at the temperature from 20 to 28 °C and relative humidity from 15 to 75 %.

8. PROTOCOL

8.1. Preparing PCR

8.3.1 Preparing tubes for PCR

The total reaction volume is 25 μ I, the volume of the DNA sample is 10 μ I.

- Use disposable filter tips for adding reagents, DNA and control samples into tubes.

 1. Calculate the required quantity of each reagent for reaction mixture preparation. For one
 - 10 µI of PCR-mix-FL Mg/ML or PCR-mix-FL Mg/FQ,
 - 5 μl of PCR-buffer-B,

 O.5 µl of polymerase (TaqF).

Prepare the reaction mixture for the total number of test and control samples plus some extra reaction. See numbers of control samples in item 7.

Prepare the reaction mixture just before use

- Mix the content of the tubes with PCR-mixes-FL, PCR-buffer-B and polymerase (TagF). Sediment the drops by vortex.
- In the two new tubes prepare two reaction mixtures. Mix the required quantities of PCR-mix-FL Mg/ML or PCR-mix-FL Mg/FQ, PCR-buffer-B and polymerase (TaqF). Sediment the drops by vortex.

 4. Take the required (twofold) number of the tubes or strips for PCR of DNA of test and
- control samples, place them in two rows.

 Transfer 15 µI per sample of one of the two prepared reaction mixtures to each row of
- tubes. Discard the unused reaction mixture.
- Add 10 µl of DNA samples obtained by extraction of the test samples to the two tubes with different reaction mixtures.

The volume of the extracted M.genitalium DNA sample for the study should NOTE:

be at least 20 µl.
Avoid transferring the sorbent together with the DNA samples extracted with

NOTE: the reagent kits for extraction on silica gel or magnetic separation.

Carry out the control amplification reactions:

For PCR-mix-FL Mg/ML:

DNA-calibrator C1 Add 10 µI of C1 Mg/ML to the tube labeled DNA-calibrator

DNA-calibrator C2 Add 10 µI of C2 Mg/ML to the tube labeled DNA-calibrator

NCA Add 10 µl of TE-buffer to the tube labeled NCA (Negative Control of Amplification).

For PCR-mix-FL Mg/FQ:

DNA-calibrator C1 Add 10 μl of C1 Mg/FQ to the tube labeled DNA-calibrator

DNA-calibrator C2 Add 10 μI of C2 Mg/FQ to the tube labeled DNA-calibrator

Add 10 μl of TE-buffer to the tube labeled NCA (Negative NCA Control of Amplification)

8.3.2. Amplification

1. Create a temperature profile on your instrument as follows:

AmpliSens-1 amplification and detection program of fluorescent signal

for rotor-type instruments				
Step	Temperature, °C	Time	Fluorescent signal detection	Cycles
1	95	15 min	-	1
	95	5 s	-	
2	60	20 s	-	5
	72	15 s	-	
	95	5 s	-	
3	60	20 s	FAM, JOE, ROX	40
	72	15 s	-	

If several tests are carried out simultaneously, the detection is enabled in other used NOTE: channels except for the specified ones.

Fluorescent signal is detected in the channels for the FAM, JOE and ROX fluorophores.

- 2. Adjust the fluorescence channel sensitivity according to the Important Product Information Bulletin.
- Insert tubes into the reaction module of the device
- Run the amplification program with fluorescence detection.
- 5. Analyze results after the amplification program is completed.

9. DATA ANALYSIS

Data analysis is performed automatically by AmpliSens® M.genitalium-ML/FQ-Resist software (version 1.0). The operation procedure for AmpliSens NOTE: M.genitalium-ML/FQ-Resist software (version 1.0) is described in the Ope

manual.

The curves of fluorescent signal accumulation are analyzed in three channels:

Table 3

Name of PCR-mix-FL	Channel for fluorophore			
Name of PCR-IIIX-FL	FAM	JOE	ROX	
PCR-mix-FL Mg/ML	domain V of 23S rRNA gene (wild type)	-	gyrB gene	
PCR-mix-FL Mg/FQ	-	QRDR of ParC gene (wild type)	IC DNA (artificially synthesized sequence)	

Results are interpreted by the crossing (or not-crossing) the fluorescence curve with the threshold line set at the specific level, as well as using F, K, d Lg(C) coefficients calculated automatically by AmpliSens® *M.genitalium*-ML/FQ-Resist software (version 1.0). Principle of interpretation is the following:

Table 4

Name of PCR-	Danult				
mix-FL	FAM	nnel for fluorophore JOE	ROX	Result	
Variant 1					
Mg/ML	absent	not taken into account	absent	M.genitalium	
Mg/FQ	not taken into account	absent	< boundary value	DNA is NOT detected	
		Variant 2			
Mg/ML	determined or absent	not taken into account	determined or absent*	Low concentratio of M.genitalium	
<i>Mg</i> /FQ	not taken into account	determined or absent	determined or absent	DNA. No mutations could be detected	
		Variant 3			
	1. absent				
<i>Mg</i> /ML	2. determined and at least one of the conditions is fulfilled: F < boundary value and/or d Lg(C) > boundary value and/or K < boundary value value	not taken into account	determined**	Mutations ARE DETECTED in the region associated with MACROLID resistance	
Mg/FQ	not taken into account	determined or absent	determined or absent	resistance	
		Variant 4			
Mg/ML	determined or absent	not taken into account	determined**		
<i>Mg</i> /FQ	not taken into account	determined and at least one of the conditions is fulfilled: F < boundary value and/or d Lg(C) > boundary value and/or K < boundary value	determined or absent	Mutations ARE DETECTED in the region associated with FLUOROQUINOLO ES resistance	
		Variant 5		l.	
<i>Mg</i> /ML	determined and the conditions are fulfilled: F ≥ boundary value and d Lg(C) ≤ boundary value and K ≥ boundary value	not taken into account	determined**	Mutations ARE NOT DETECTED in the regions associate with MACROLID	
<i>Mg</i> /FQ	not taken into account	determined and the conditions are fulfilled: F ≥ boundary value and d Lg(C) ≤ boundary value and K ≥ boundary value	determined or absent	and FLUOROQUINOLO ES resistance	
		Variant 6			
Mg/ML	absent	not taken into account	absent		
Mg/FQ	not taken into account	absent	absent or > boundary value	Invalid***	

[.]genitalium concentration is < 1x103 GE/ml

Boundary Ct values are specified in the Important Product Information Bulletin NOTE: enclosed to the PCR kit.

The result of the analysis is considered reliable only if the results obtained for the controls of amplification are correct (according to Table 5 and the *Important Product Information Bulletin* enclosed to the PCR kit).

Table 5

Results for controls					
Control	Name of	Ct value in the channel for fluorophore			
Control	PCR-mix-FL	FAM	JOE	ROX	
NCA	Mg/ML	absent	not taken into account	absent	
NCA	Mg/FQ	not taken into account	absent	absent	
C1	Mg/ML	< boundary value	not taken into account	< boundary value	
CI	Mg/FQ	not taken into account	< boundary value	< boundary value	
C2	Mg/ML <u>determined</u>		not taken into account	<u>determined</u>	
C2	Mg/FQ	not taken into account	determined	determined	

m.gerillalium concentration is < 1x10 GE/ml.

*** M.genitalium concentration is < 1x10³ GE/ml.

*** In case of invalid result, the PCR analysis should be repeated for the corresponding test sample starting from the DNA extraction stage

10. TROUBLESHOOTING

Results of analysis are not taken into account in the following cases:

1. For the Negative Control of amplification (NCA):

- For the Negative Control of amplification (NCA):

 a) The Ct value (Ct-1) is determined in the channels for the FAM and/or ROX fluorophores when using PCR-mix-FL Mg/ML and in the channels for the JOE and/or ROX fluorophores when using PCR-mix-FL Mg/FC. The contamination of laboratory with amplification products or contamination of reagents, test samples is probable at any stage of PCR analysis. Measures for detecting and elimination of contamination source must be taken. The amplification and detection should be repeated for all samples in which specific DNA was detected;
 b) The Ct value (Ct-2) is determined in the channel for the FAM fluorophore when using PCR-mix-FL Mg/ML and in the channel for the JOE fluorophore when using PCR-mix-FL Mg/ML and in the channel for the JOE fluorophore when using PCR-mix-FL Mg/FO. The contamination of Laboratory with amplification products or
- mix-FL Mg/FQ. The contamination of laboratory with amplification products or contamination of reagents, test samples is probable at any stage of PCR analysis. Measures for detecting and elimination of contamination source must be taken. The amplification and detection should be repeated for all samples in which specific DNA was detected.
- 2. The Ct value (Ct-1 and/or Ct-2) is absent for the DNA-calibrators C1, C2 Mg/ML in any of the specified detection channels (see Table 5). The amplification and detection should be repeated for all the samples.

 The Ct value (Ct-1 and/or Ct-2) is absent for the DNA-calibrators C1, C2 Mg/FQ in any
- of the specified detection channels (see Table 5). The amplification and detection should be repeated for all the samples.
- The correlation coefficient R^2 is less than 0.9 when plotting the calibration line. Check the correctness of set concentrations of DNA-calibrators in accordance with the Important Product Information Bulletin enclosed to the PCR kit. If the improper result has been obtained again the amplification and detection should be repeated for all the
- The efficiency is less than 70 % or greater than 120 % when plotting the calibration line. Check the correctness of set concentrations of DNA-calibrators in accordance with the Important Product Information Bulletin enclosed to the PCR kit and the correctness of selected level of the threshold line. If set concentrations of DNA-calibrators and the threshold line level are correct but the efficiency does not fit in the required range, then

the amplification and detection should be repeated for all the samples.

If you have any further questions or if you encounter problems, please contact our Authorized representative in the European Community.

11. TRANSPORTATION

AmpliSens® M.genitalium-ML/FQ-Resist-FRT PCR kit should be transported at 2-8 °C for no longer than 5 days. PCR kit can be transported at 2–25 °C for no longer than 3 days.

12. STABILITY AND STORAGE

All components of the AmpliSens® M.genitalium-ML/FQ-Resist-FRT PCR kit are to be All components of the AmpliSens "M.genitalium-ML/FQ-Resist-FRT PCR kit are to be stored at 2–8 °C when not in use (except for PCR-buffer-1B and polymerase (TaqF)). All components of the AmpliSens® M.genitalium-ML/FQ-Resist-FRT PCR kit are stable until the expiry date stated on the label. The shelf life of reagents before and after the first use is the same, unless otherwise stated.

PCR-buffer-B and polymerase (TaqF) are to be stored at the temperature from NOTE:

minus 24 to minus 16 °C.

PCR-mix-FL Mg/ML and PCR-mix-FL Mg/FQ are to be kept away from light.

13. SPECIFICATIONS

13.1. Analytical sensitivity (limit of detection)

Table 6

Test material	PCR kit	Analytical sensitivity (limit of detection), GE/ml
DNA sample extracted from biological material	variant FRT-50 F	1x10 ³

NOTE:

The detection of mutations in M.genitalium DNA associated with resistance to macrolides (in domain V of the 23S rRNA gene) and fluoroquinolones (in QRDR of the ParC gene) is possible when *M.genitalium* DNA concentration in the sample is no less than 1x103 GE/ml.

13.2. Analytical specificity

The analytical specificity of AmpliSens® M.genitalium-ML/FQ-Resist-FRT PCR kit is ensured by the selection of specific primers and probes as well as stringent reaction

ensured by the selection of specific primers and probes as well as stringent reaction conditions. The primers and probes have been checked for possible homologies to all sequences published in gene banks by sequence comparison analysis.

The PCR kit detects M.genitalium DNA fragments. The analytical specificity was proved when investigating the DNA of the following microorganisms/strains in concentration no less than 1x10⁷ GE/ml: Lactobacillus spp., Gardnerella vaginalis, Enterococcus faecium, Neisseria gonorrhoeae, Chlamydia trachomatis, Mycoplasma hominis, Ureaplasma parvum, Ureaplasma urealyticum, Trichomonas vaginalis, Candida albicans, HSV type 1 and 2, CMV, Atopobium vaginae, Staphylococcus aureus, Staphylococcus saprophyticus, Staphylococcus epidermidis, Streptococcus agalactiae, Streptococcus pneumoniae, Escherichia coli, Klebsiella oxytoca, Klebsiella pneumoniae, Neisseria lactamica, Neisseria meningitidis, Enterobacter cloacae, as well as human DNA in concentration no less than 1x10⁷ GE/ml.

The nonspecific reactions were not observed while testing the DNA samples of the above mentioned microorganisms, as well as human DNA. The specificity of testing was confirmed by sequencing of the detected amplification products.

The clinical specificity of AmpliSens® M.genitalium-ML/FQ-Resist-FRT PCR kit was

confirmed in laboratory clinical trials.

The information about known interfering substances is specified in the *Interfering*

substances and limitations of using test material samples.

13.3. Repeatability and reproducibility

Repeatability and reproducibility were determined by testing of positive and negative model samples. Positive samples were a mixture of quality control samples (QCS) containing M.genitalium DNA fragments with macrolide and fluoroquinolone resistance mutations at concentrations of 1x10⁵ copies/ml. Quality control samples (QCS) containing wild type M.genitalium DNA fragments at concentrations of 1x10⁵ copies/ml were used as samples with no target mutations.

Repeatability conditions included testing in the same laboratory, by the same operator, using the same equipment within a short period of time. Reproducibility conditions included testing in different laboratories, by different operators, using different equipment. The results are presented in Table 9.

	Repeatability		Reproducibility		
Sample type	Number of samples	Agreement of results, %	Number of samples	Agreement of results, %	
Positive	20	100	40	100	
Negative	20	100	40	100	

13.4. Diagnostic characteristics

300 DNA samples containing *M.genitalium* DNA extracted from the urogenital tract and urine were tested to determine the diagnostic sensitivity of **AmpliSens®** *M.genitalium* **ML/FQ-Resist-FRT** PCR kit. The samples were separately tested with **AmpliSens®** *M.genitalium*-**ML/FQ-Resist-FRT** PCR kit and by Sanger sequencing as a reference

The results of testing AmpliSens® M.genitalium-ML/FQ-Resist-FRT PCR kit in comparison with the reference assay

				Results of using the reference assay ²	
Samples type	Antibiotic group	The results of application of AmpliSens® <i>M.genitalium</i> - ML/FQ-Resist-FRT PCR kit		Antibiotic resistance mutations are detected (positive)	Antibiotic resistance mutations are not detected (negative)
	Macrolides	300 samples were tested	Mutations are detected (positive)	25	0
DNA samples extracted	Maciondes		Mutations are not detected (negative)	0	275
from biological material	Fluoroquinolones	300 samples	Mutations are detected (positive)	15	0
			Mutations are not detected (negative)	0	285

Table 9

Diagnostic characteristics of Amplisens in genitalium-wild FQ-Resist-FRT FCR kit					
Samples type	Antibiotic group	Diagnostic sensitivity ³ (with a confidence level of 95 %)	Diagnostic specificity ⁴ (with a confidence level of 95 %)		
DNA samples	Macrolides	100 (88.7-100) %	100 (98.9-100) %		
extracted from biological material	Fluoroquinolones	100 (81.9-100) %	100 (99-100) %		

14. REFERENCES

- Murray G.L., Bradshaw C.S., Bissessor M., Danielewski J., Garland S.M., Jensen J.S., Fairley C.K., Tabrizi S.N. Increasing Macrolide and Fluoroquinolone Resistance in Mycoplasma genitalium. Emerg Infect Dis. 2017;23(5):809-812.
 Shedko E. D., Khayrullina G. A., Goloveshkina E. N., Akimkin V. G. Clinical evaluation
- of commercial PCR assays for antimicrobal resistance in Mycoplasma genitalium and estimation of resistance-mediated mutation prevalence in Moscow and Moscow region // Eur J Clin Microbiol Infect Dis − 2021. − V.40. − №7. − P.1413-1418. DOI: 10.1007 / s10096-021-04170-0.

15. QUALITY CONTROL

In compliance with Federal Budget Institute of Science "Central Research Institute for Epidemiology" ISO 13485-Certified Quality Management System, each lot of the AmpliSens® M.genitalium-ML/FQ-Resist-FRT PCR kit has been tested against predetermined specifications to ensure consistent product quality.

AmpliSens®



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² Sanger sequencing method was used as a reference assay.

³ Relative sensitivity in comparison with applied reference assay ⁴ Relative specificity in comparison with applied reference assay.