

Mycoplasma Hominis

AMPLI-SET-Myc Hominis

Cat. n.1.611

Mycoplasmas are the smallest free living cells known. They range from 125 to 150 nm. and thus can pass through some filters used to remove bacteria. They have the smallest genome size and , as a result, lack many metabolic pathways and require complex media for their isolation. The mycoplasmas are facultative anaerobes ,except for *M. pneumoniae*, which is a strict aerobe. A characteristic feature that distinguishes the mycoplasmas from other bacteria is the lack of a cell wall They are provided of membrane of lipids and proteins. They differ from “L forms” because of they cannot become bacteria. *Mycoplasma Hominis* is saprophyte and it is present as normal flora in vagina.

Ampli-Myc-Hominis kit allows, using the Polymerase Chain Reaction technique (PCR) the qualitative detection of *Mycoplasma Hominis* in biological samples. The Mix PCR, ready-to-use, contains a colouring agent and an internal amplification control (recombinant plasmide , which contains a fragment of 500 bp)

Principle of method: A) extraction of genomic DNA
B) amplification C) detection on agarose gel.

Applicability: On extracted and purified DNA from epithelial cells, urethral, conjunctival, prostatic and seminal liquid, urine.

Numbers of Tests: 60.

system with power supply; UV Transilluminator; Photodocumentation System.

All materials requested must be sterile and disposable, DNase and RNase free.

ANALYSIS OF RESULTS

REAGENTS AND STORAGE

EXTRACTION	
Lyses solution	2-8°C
Reagent 1	2-8°C
Reagent 2	2-8°C
Reagent 3	2-8°C
Sorbent	2-8°C
TE buffer	2-8°C
AMPLIFICATION	
Mix PCR	-20°C
Taq Polimerase	-20°C
Water DNase-RNase free	-20°C
Positive Control Myc Hominis	-20°C
DETECTION	
Agarose TBE precast gel 2%	R.T.
Loading buffer 5 X	R.T.
TBE 5X	R.T.
Ladder 100 bp	-20°C

Stability: over 12 months if correctly stored (agarose gels, if protected by light, can be stored 1 year at room temperature).

Required equipment: tubes 1.5 ml, screw caps, refreshed tube-tray, plugged (aerosol-barrier) sterile tips, PCR tubes.

Reagents not included with the kit: bidistilled sterile water, chloroform, Ethanol 70 %, Ethanol 100%.

Required instruments: microcentrifuge with fixed rotor for 2 ml tubes (13-15.000 g); Pre-PCR and Post-PCR Pipettes (0.5 – 20 µl, 10 – 100 µl, 20 – 200 µl, 200 – 1000 µl); Programmable Thermalcycler; Class II Bio Hazard Biological Safety Cabinet; Electrophoresis



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N°	Types	PCR products (bp)
1	Negative Control	500bp
2	Positive Control	956bp + 500bp
M	WM ladder 100bp	

The absence of a 500 bp band means an error in the amplification process.

References:

- Molecular Biology* 1989;3(7), 843-849.
- Journal of Infection Disease* 1990;161, 977-981.
- Molecular and Cellular Probes* 1995 (9),291-295.
- Nucl Acids Res* 19: 4006 (1991).