FP:(Minerva Biolabs)

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1. **202004005694** GERÄTESYSTEM ZUR FLÜSSIGKEITSUNTERSUCHUNG DE - 26.08.2004

Int.Class C12M0001340000 FI **Appl.No** 202004005694 **Applicant** MINERVA BIOLABS GMBH **Inventor**

Apparatus to test a liquid, and especially water for the presence of microorganisms, has one or more suction connections at a frame, with an adaptor over them with a mounted filter holder with a cellulose acetate or polymer filter membrane. A removable funnel is on the filter holder. A DNA bonding column is between the suction connections and the adaptor.

2. **000010115749** KONTROLLPLASMID UND VERFAHREN ZUM NACHWEIS VON MYCOPLASMEN-KONTAMINATIONEN IN BIOLOGISCHEM MATERIAL DE - 10.10.2002

Int.Class C12N 15/63 **Appl.No** 10115749 **Applicant** MINERVA BIOLABS GMBH **Inventor** VOLLENBROICH DIRK

The invention relates to a method for detecting mycoplasma in biological material, comprising the following steps: a) the mycoplasma are lysed in the biological material by heat treatment, b) the released mycoplasma DNA is introduced into a PCR, which uses specific primers that however recognise a segment, common to the representatives of the *Mollicutes* class, of the gene that codes for the 16S rRNA of mycoplasma and either c) a conventional, non-real time PCR is carried out or d) a fluorescently labelled oligonucleotide is introduced into the PCR as a detection and quantification probe for the amplified mycoplasma DNA and e) the reaction feed material is processed in a device for the real time PCR, or d) a control plasmid is added to the reaction feed material and g) a conventional, non-real time PCR is carried out, or h) a control plasmid is added to the reaction feed material and i) fluorescently labelled oligonucleotides are added as detection and quantification probes for the amplicon of the control plasmid and the mycoplasma DNA and j) the reaction feed material is processed in a device for the real time PCR. The invention also relates to the control plasmid, containing primers that recognise a segment of the gene that codes for the 16S rRNA of the mycoplasma genome, said segment being specific to the species of the micro-organism class *Mollicutes*, but common to the individual species of the *Mycoplasma* genus, in addition to the majority of representatives of the genera Ureaplasma, Spiroplasma, and Acholeplasma and to an amplicon, which is located between the primers and comprises the oligonucleotide sequence 5' cgccctactggccacctgtccaga.

3. **2002302328** CONTROL PLASMID AND METHOD FOR DETECTING MYCOPLASMA CONTAMINATION IN BIOLOGICAL MATERIAL AU - 12.12.2002

Int.Class C12Q 1/68 **Appl.No** 2002302328 **Applicant** MINERVA BIOLABS GMBH **Inventor** Schramm, Christine

The invention relates to a method for detecting mycoplasma in biological material, comprising the following steps: a) the mycoplasma are lysed in the biological material by heat treatment, b) the released mycoplasma DNA is introduced into a PCR, which uses specific primers that however recognise a segment, common to the representatives of the *Mollicutes* class, of the gene that codes for the 16S rRNA of mycoplasma and either c) a conventional, non-real time PCR is carried out or the reaction feed material is processed in a device for the real time PCR. The invention also relates to the control plasmid, containing primers that recognise a segment of the gene that codes for the 16S rRNA of the mycoplasma genome, said segment being specific to the species of the micro-organism class *Mollicutes*, but common to the individual species of the *Mycoplasma* genus, in addition to the majority of representatives of the genera Ureaplasma, Spiroplasma, and Acholeplasma and to an amplicon, which is located between the primers and comprises the oligonucleotide sequence 5' -cgccctactggccacctgtccaga.

4. **WO/2002/077271** CONTROL PLASMID AND METHOD FOR DETECTING MYCOPLASMA CONTAMINATION IN BIOLOGICAL MATERIAL WO - 03.10.2002

Int.Class C12Q 1/68 **Appl.No** PCT/DE2002/001154 **Applicant** MINERVA BIOLABS GMBH **Inventor** VOLLENBROICH, Dirk

The invention relates to a method for detecting mycoplasma in biological material, comprising the following steps: a) the mycoplasma are lysed in the biological material by heat treatment, b) the released mycoplasma DNA is introduced into a PCR, which uses specific primers that however recognise a segment, common to the representatives of the Mollicutes class, of the gene that codes for the 16S rRNA of mycoplasma and either c) a conventional, non-real time PCR is carried out or the reaction feed material is processed in a device for the real time PCR. The invention also relates to the control plasmid, containing primers that recognise a segment of the gene that codes for the 16S rRNA of the mycoplasma genome, said segment being specific to the species of the micro-organism class Mollicutes, but common to the individual species of the Mycoplasma genus, in addition to the majority of representatives of the genera Ureaplasma, Spiroplasma, and Acholeplasma and to an amplicon, which is located between the primers and comprises the oligonucleotide sequence 5' -cgccctactggccacctgtccaga.

5. **000010115748** CONTROL PLASMID, USEFUL IN DETECTION OF MYCOPLASMA PNEUMONIAE BY POLYMERASE CHAIN REACTION, INCLUDES AMPLICON BETWEEN SPECIFIC PRIMER SEQUENCES DE - 02.10.2002

Int.Class C12N 15/63 **Appl.No** 10115748 **Applicant** MINERVA BIOLABS GMBH **Inventor** VOLLENBROICH DIRK

Control plasmid (A) that includes (i) primers (P) that recognize a species-specific segment (S) of the P1 adhesin protein gene of Mycoplasma pneumoniae and (ii) between P, an amplicon containing the oligonucleotide sequence 5'-CGCCCTACTGGCCACCTGTCCAGA-3'. (S) is universal for types I and II of M. pneumoniae. All sequences are fully disclosed in the specification. An Independent claim is also included for detection of M. pneumoniae that includes use of (A).

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