

## hyplex StaphyloResist<sup>®</sup> plus

Multiplex - PCR for identification of "community-acquired methicillin-resistant *Staphylococcus aureus*" (CA-MRSA)



### hyplex StaphyloResist<sup>®</sup> plus

- Clear identification of CA-MRSA
- Reliable detection of Panton - Valentine leukocidin genes *lukF* – *lukS* and high-level mupirocin resistance
- Clear differentiation between *S. aureus* und coagulase negative *staphylococci* (CNS)
- Simple test performance; automation possible
- Individual test assembly
- Reliable, secure, fast
- CE

Staphylococci are widespread in colonising the skin and oropharyngeal mucosa membrane of human individuals. ***Staphylococcus (S.) aureus*** shows the strongest pathological potential of all known species of *staphylococci*. Parallel to the increased significance of *S. aureus* as cause of nosocomial infections the resistance status against a whole set of antibiotics degraded obviously. First of all, the resistance of *S. aureus* against methicillin (MRSA) currently represents an especially problematic resistance mechanism in the clinical practice. Therefore, MRSA infections became a significant risk factor for affected patients as well as a major cost factor for hospitals.

Since 1998 infections caused by **CA-MRSA** have been increasingly reported worldwide. Beside their resistance against methicillin and all other  $\beta$ -lactam antibiotics they mostly showed resistance against fusidic acid. By secretion of a toxin (Panton-Valentine leukocidin), CA-MRSA are responsible for severe skin and soft tissue infections such multiple recidivating abscesses, and occasionally, for fatal necrotizing pneumonia. The corresponding genes, *lukS-lukF* are discussed as marker molecules for CA-MRSA.

**hyplex StaphyloResist<sup>®</sup> plus** enables the secure and reliable identification of CA-MRSA by detection of the *lukS-lukF* gene. Additionally, the presence of the high-level resistance against mupirocin, the preferred agent for eradication of MRSA, can be examined in parallel.



Product	Description	Tests / kit	Cat.No.
hyplex <i>StaphyloResist</i> <sup>®</sup> plus PCR module	Reagents for multiplex PCR incl. positive control cavities	1 kit 96 tests	3809
hyplex <i>StaphyloResist</i> <sup>®</sup> hybridisation module <i>S. aureus</i>	Specific oligonucleotide probe for reverse hybridisation	1 kit 96 tests	3801
hyplex <i>StaphyloResist</i> <sup>®</sup> hybridisation module <i>S. epidermidis</i>	Specific oligonucleotide probe for reverse hybridisation	1 kit 96 tests	3802
hyplex <i>StaphyloResist</i> <sup>®</sup> hybridisation module <i>S. haemolyticus</i>	Specific oligonucleotide probe for reverse hybridisation	1 kit 96 tests	3803
hyplex <i>StaphyloResist</i> <sup>®</sup> hybridisation module methicillin resistance	Specific oligonucleotide probe for reverse hybridisation	1 kit 96 tests	3804
hyplex <i>StaphyloResist</i> <sup>®</sup> hybridisation module mupirocin resistance	Specific oligonucleotide probe for reverse hybridisation	1 kit 96 tests	3805
hyplex <i>StaphyloResist</i> <sup>®</sup> hybridisation module panton-valentine-leukocidin	Specific oligonucleotide probe for reverse hybridisation	1 kit 96 tests	3806
Lysis buffer	Buffer for DNA preparation	60 ml	3950
hyplex <sup>®</sup> Prep module	To isolate genomic DNA from clinical material	50 preparations	3951
Tth-DNA polymerase	DNA polymerase for DNA amplification incl. buffer	500 U	3954
Filtration vials	For DNA preparation	18 pcs.	3957

**For further information see**

[www.hyplex.de](http://www.hyplex.de)