METHODS AND SYSTEMS FOR THE DETECTION OF METHICILLIN RESISTANT STAPHYLOCOCCUS AUREUS

ABSTRACT

Described according to an embodiment of the invention is a method and a system thereof, for the detection of at least one of *Staphylococcus aureus* (SA), the antibiotic resistant forms thereof, and the antibiotic resistant forms of other bacteria. The method comprises obtaining a sample, the extraction of nucleic acids from the sample and bringing the extracted nucleic acids into contact with a first primer pair complementary to a targeted segment of the attBscc gene, a second primer pair complementary to a targeted segment of the mecA gene, and a third primer pair complementary to a targeted segment of the orfX gene.