

实验研究

葡萄球菌凝固酶试验玻片法结果最佳判读标准的探讨

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摘要:

目的探讨葡萄球菌凝固酶试验玻片法结果的最佳判读标准。方法对临床标本分离的70株葡萄球菌属细菌,以聚合酶链反应(PCR)法检测葡萄球菌凝固酶基因(金标准),同时以乳胶凝集法快速检测金黄色葡萄球菌(Slides Staph Plus),试管法、玻片法检测葡萄球菌凝固酶。经VITEK II全自动分析仪鉴定细菌到种。结果70株葡萄球菌属细菌中,PCR法检测葡萄球菌凝固酶基因56株为阳性;Slides Staph Plus与PCR法相对应的56株为阳性;试管法检测与前2种方法相对应的54株为阳性,2株为假阴性;玻片法为强阳性;VITEK II全自动分析仪鉴定56株为金黄色葡萄球菌(与PCR法同)。另14株菌经鉴定为溶血性葡萄球菌。玻片法以粗大颗粒状或明显大絮片状凝集为血浆凝固酶试验阳性的判断,其准确度为80.00%,假阳性率为20.00%。结论葡萄球菌凝固酶试验玻片法结果最佳判读标准:以10 s内血浆中呈不可磨散的明显团块状凝集,液面清亮,在无菌生理盐水中不凝集为阳性。

关键词: 葡萄球菌属 葡萄球菌凝固酶试验 玻片法 结果判断 实验室技术与方法

The optimal standard for detecting coagulase test of Staphylococcus with slide method

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Abstract:

Objective To evaluate the optimal standard for detecting coagulase test of Staphylococcus with slide method. Methods Seventy strains of Staphylococcus spp. isolated from clinic were studied, Staphylococcus coagulase gene were detected with PCR, Staphylococcus aureus were rapidly detected with latex agglutination test, Staphylococcus coagulase were detected with test tube and slide methods respectively. The species of bacteria were identified by VITEK-II automatic analyzer. Results Among 70 strains of Staphylococcus spp., 56 strains were positive Staphylococcus coagulase gene with PCR; the same 56 strains were also positive with latex agglutination test; 54 of which were positive with tube test method, 2 strains were false negative; strong positive were detected with slide method, all these 56 strains were identified as Staphylococcus aureus by VITEK-II automatic analyzer (the same as PCR results). The other 14 strains were Staphylococcus haemolyticus. The judge of positive of coagulase test with slide method was according to coarse granule or apparent floccule agglutination, the accuracy rate was 80.00%, false positive rate was 20.00%. Conclusion The optimal standard of positive results with slide method are as follows: plasma appears apparent ball-like agglutination within 10 seconds, fluid in background should be clear, and there is no agglutination when bacteria strains are mixed in physiological saline.

Keywords: Staphylococcus spp Staphylococcus coagulase test slide method judge of result laboratory technique and methods

收稿日期 2008-07-10 修回日期 2008-09-23 网络版发布日期 2009-01-30

DOI:

基金项目:

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