

论著

## 亚硫酸氢钠处理后牛心包的血液相容性

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**摘要** 摘要: 目的 评价经亚硫酸氢钠(SOB)溶液抗钙化处理后的牛心包的血液相容性。方法 对戊二醛处理后再经SOB溶液处理的牛心包,采用体外动态凝血实验、血小板黏附实验、D-二聚体测定和补体激活实验进行血液相容性评价;仅经过戊二醛处理者作为对照组。结果 SOB处理后牛心包的凝血性能和血小板黏附性能与对照组相比无明显差异;D-二聚体含量两组均在正常范围内,且SOB处理组显著低于对照组(P<0.05);补体激活实验中SOB处理组补体C3a水平显著低于对照组(P<0.05)。结论 经SOB抗钙化处理后的生物材料体外血液相容性符合临床应用要求。

**关键词** [亚硫酸氢钠](#) [牛心包](#) [血液相容性](#)

分类号

## Hemocompatibility of Bovine Pericardium with Additional Sodium Bisulfite Treatment

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**Abstract** ABSTRACT: Objective To evaluate the hemocompatibility of glutaraldehyde (GA)-tanned bovine pericardium additionally treated by sodium bisulfite (SOB) solution. Methods The hemocompatibility of GA-tanned bovine pericardium treated by SOB solution is evaluated by using dynamic clotting time test, blood platelet adhesion test, D-dimeride determination, and complement activation test. The GA-tanned bovine pericardium was used as control. Results The curve of absorbance-clotting time of two kinds of bovine pericardium was similar in dynamic clotting time test. There was no significant difference between SOB-treated and control groups in blood platelet adhesion test. The D-dimeride contents of all bioprostheses were at normal level, and the D-dimeride content of GA-tanned bovine pericardium treated by SOB solution was significantly lower than that of control group (P<0.05). In complement activation test, the level of complement C3a in SOB-treated group was significantly lower than that in control group (P<0.05). Conclusion GA-tanned bovine pericardium treated by SOB solution meets the demands of cardiac interstitial implanted materials in hemocompatibility.

**Key words** [sodium bisulfite](#) [bovine pericardium](#) [hemocompatibility](#)

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