

论文

乙酸异丁酸蔗糖酯原位凝胶流变学性质的研究

卢亚欣;何海冰;崔越;唐星

沈阳药科大学 药学院, 辽宁 沈阳 110016

摘要:

关键词: 乙酸异丁酸蔗糖酯 原位凝胶 流变学性质 黏度

Rheological properties of sucrose acetate isobutyrate *in situ*gel

LU Ya-xin; HE Hai-bing; CUI Yue; TANG Xing

Abstract:

To study the rheological properties of sucrose acetate isobutyrate (SAIB) *in situ*gel and the influencing factors. Measurements of shear stress and viscosity were carried out at different shear rate. The rheological properties of SAIB solution were similar to those of Newtonian fluid. The factors such as the type of solvent, concentration, additive, drug and temperature had effect on the rheological properties. Ethanol was a suitable solvent compared with ethyl lactate and N-methylpyrrolidone (NMP). The solution viscosity of SAIB was reduced from 1.29 to 0.11 Pa·s with only increasing the content of ethanol from 10% to 20%. Polylactic acid (PLA) and risperidone could increase the intermolecular force and viscosity. However, adding 10% (w/w) PLA, the initial release of risperidone was reduced from 20.2% to 3.5%. The solution viscosity reduced significantly by stepping up the temperature. The results obtained support the using of SAIB is satisfactorily injectable *in situ*gel formulation.

Keywords: *in situ*gel rheological property viscosity sucrose acetate isobutyrate

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通讯作者: 唐星

作者简介:

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