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医用无水葡萄糖生产中的原料脱色技术研究

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摘要:

为了提高医用无水葡萄糖生产中原料脱色的效率,降低生产成本,以脱色过程中葡萄糖原料与脱色剂混合物在板框中运行时间为指标考察了葡萄糖溶液浓度、硅藻土型号、混合脱色剂添加量、活性炭与硅藻土添加比率等因素对于脱色效率的影响。利用正交试验设计,最终确定了在糖液浓度69%左右时,选用700#硅藻土,脱色剂添加量为7‰,活性炭与硅藻土比率为5: [KG-*2]2的条件下对糖液进行过滤,可达到最长板框运行时间。同时,由于采用混合脱色剂,使得活性炭和滤布的使用量减少了近30%,降低了生产成本。

关键词: 脱色 无水葡萄糖 混合脱色剂 正交试验

A raw material decoloring technology in the production of medical anhydrous glucose

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Abstract:

We investigated the influences of glucose solution concentration, diatomite model, volume of mixed decolorants , ratio of activated charcoal and diatomite on decoloring efficiency with the running time in the deckleboard of mixture of glucose raw materials and decolorants as a parameter to increase decoloring efficiency and to decrease the costs in the production of medical anhydrous glucose. Orthogonal experiment shows that the parameter can reach the maximum in the conditions of 69% glucose liquid concentration, 700# diatomite, 7‰ volume of decolorants and 5:2 ratio of activated charcoal and diatomite. Moreover, the employment of mixed decolorants decreases the amount of activated charcoal and filter cloth by almost 30%, so production costs are reduced.

Keywords: ecolorization anhydrous glucose mixed decolorants orthogonal experiment design

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