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中药浸膏粉物理性质与干法制粒工艺的相关性研究

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中文摘要: 目的: 通过探讨中药浸膏粉物理性质和制粒工艺参数与干法制粒颗粒质量的相关性, 找出影响制粒效果的主要因素。方法: 应用多元线性回归分析方法考察浸膏粉的休止角、压缩度、黏聚力、含水量等物理性质、制粒工艺中的送料速度、滚轮转速、滚轮压力等参数与颗粒得率的相关关系。结果: 压缩度、含水量、送料速度、滚轮压力均与干法制粒颗粒的得率呈明显的正相关关系, 休止角、黏聚力、滚轮转速均与干法制粒颗粒的得率呈明显的负相关关系。结论: 中药浸膏粉物理性质和干法制粒的工艺参数是影响干法制粒的主要因素, 其中中药浸膏粉物理性质参数压缩度、黏性以及制粒工艺参数中滚轮转速对干法制粒的效果影响较大。

中文关键词: [中药浸膏粉](#) [干法制粒](#) [多元回归分析](#)

Correlation of physical properties of herbal extracts and dry granulating process

Abstract: Objective: To study the correlation of dry granulation with Chinese extract powder physical properties and dry granulating process parameters to find out the main factors affecting the granulation progress. Method: The correlation with the physical properties including angle of repose, compression degree, cohesion, water content, feeding speed, wheel speed and wheel pressure with the yield of grain was investigated by multiple regression analysis. Result: The results showed that compression degree, water content, feeding speed and wheel pressure was positively correlated with the yield of grain in measured range. The angle of repose, cohesion, wheel speed was negative correlated with the yield of grain in measured range. Conclusion: Dry granulating was highly influenced by the physical properties of herbal extracts and the parameters of dry granulating process. The greater impact on grain dry method are compression, cohesion and wheel speed.

keywords: [Chinese extract powder](#) [grain dry](#) [multiple regression analysis](#)

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