The Influence of Drying Method of Temulawak Extract (*Curcuma Xanthorrhiza* Roxb.) on Tablet Properties Prepared by Direct Compression

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ABSTRACT

The purpose of this research was to evaluate the influence of drying method of Temulawak extract on tablet properties. The drying methods were using colloidal silicon dioxide as adsorbent and spray drying using maltodextrin as a carrier. The tablets were prepared by direct compression techniques. The dried extract was blended with 10 % of starch 1500, 1 % of magnesium stearate, 1% of talc and avicel as diluent. The tablets containing curcuma extract dried by spray drying showed higher hardness than the one using colloidal silicon dioxide for drying the extract. The good disintegration properties of the prepared tablets were related to hardness. Thereby, we found lengthening of the disintegration time on tablets containing Temulawak extract dried by spray drying.

Key words: Spray drying, Temulawak extract, direct compression

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