FORMULATION OF TABLET FROM ETHANOLIC EXTRACT OF *Curcuma zedoria* (Berg.) Rosc. USING DIRECT COMPRESS METHOD

**Yedi Herdiana**
Departement of Pharmaceutical and Technology Pharmacy, Faculty of Pharmacy, Universitas Padjadjaran, Indonesia.
e-mail address of corresponding author: y.herdiana@unpad.ac.id

**ABSTRACT**

Curcuma zedoaria Rosc is a perennial herb found in tropical countries, such as Indonesia, India, Japan and Thailand. Various parts of this plant are used as jamu and other folk medicines for the treatment of different ailments, such as diarrhoea, cancer, flatulence, dyspepsia, antibacterial and antifungal. The previous research showed that curcuma zedoria has analgesic and antipyretic properties. Those curcuma is empirically used with water decoction of rizhoma which is inconvenient. Therefore, the improvement for better dosage form and stable for long use is needed. In this study, to investigate two binder-filler properties of microcrystalline cellulose and pregelatinized starch in tablet formulations, we fabricated tablet containing ethanolic extract of *Curcuma zedoria* (Berg.) Rosc. with direct compression method. The result has showed that both formula has fullfilled tablet standard. The microcristalin cellulosa show better properties than pregelatized starch, its showed on pose angle 24,70°, compressibility 10,8%, hardness test 6,50-7,00 kg/cm², disintegration time 7 minutes, frixibilitas 0,64% dan friabilitas 0,53%.

Key words: *Curcuma zedoria*, binder-filler properties, microcristalin cellulosa, pregelatized starch.