

ABSTRACT

The use of red ginger in the community is generally only used as a mixture in cooking while caffeine in the form of coffee beans is only brewed. Formulations in effervescent tablet dosage form are expected to make it easier to use. This research aims to obtain an effervescent tablet formula of ginger extract and caffeine with a variety of PVP binding materials that qualify of a good effervescent tablet and its physical test.

Ginger extraction was done by maceration using 96% ethanol as solvent while for caffeine it was already in the form of coffee powder. The effervescent tablets made by wet granulation method with various variations of PVP binder to get the best formulation with binding materials.

Analysis of the physical properties of effervescent tablets is done with a theoretical approach. The best formula is a formula that contains a concentration of 2% binder materials. The results of physical evaluation of effervescent tablets have qualified the uniformity of weight (1.0329gram), tablet hardness (4.46kg), fragility of tablet (0.53%), soluble time (1.43 minutes).

Keywords: red ginger, wet granulation, caffeine, effervescent tablet, PVP