MURNIYANTI JUNIKA YUSUF. 2015. Formulation and evaluation of effervescent granules of dry powder of ginger (Zingiber officinale .Rosc.) With various concentrations of Na CMC as a binder. KTI. D-III program of Pharmacy, Department of Pharmacy, Faculty of Health Sciences and Sport, State University of Gorontalo. Supervisor I: Hamsidar Hasan S.Si., M.Sc., Apt and Supervisor II: Robert Tungadi S.Si., M.Sc., Apt.

Ginger is one of the plants that have gingerol compounds that have antioxidant activity is quite high which is widely used as a drug such as strep throat. Utilization of red ginger (Zingiber officinale .Rosc.) Is used as a mixture of food and beverages that can be formulated in effervescent dosage form. This study aims to formulate and evaluate the dry powder of red ginger (Zingiber officinale .Rosc.) Into the dosage form of effervescent granules. Making the beverage is made in three effervescent granule formula of red ginger (Zingiber officinale .Rosc.) With different concentrations of Na CMC as a binder (FII) 0.5%, (FII) 1%, (FIII) 1.5%, and the variation the ratio of sodium bicarbonate and acid (citric acid and tartar acid) derived from the ratio citric acid: acid tartar: Na bicarbonate (1: 2: 3.4) with various concentrations of citric acid (FII) 11.56% (FII) 11.40%, (FIII) 11.17%, acid tartar (FII) 23.12%, (FII) 22.8%, (FIII) 22.34% and Na bicarbonate (FII) 39.3%, ( FII) 38.78%, (FII) 37.96%, which then became the preparation of effervescent and effervescent granules that are evaluated include organoleptic test, test water levels, flow rate test, test and test time silent corner soluble. Results of the evaluation showed that the formula 3 is an effervescent granule formula that has the best treatment. Parameters tested include hedonic test analysis results of 50%, 3% water content test, test flow rate of granules 7.32 g / s, resting angle of 7.32 ° test and test time 20 minutes 15 seconds late,

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