

KAJIAN VARIETAS BUNGA DAN PROPORSI JENIS PELARUT UNTUK PEMBUATAN EKSTRAK ROSELA (*Hibiscus sabdariffa* L.) DALAM PEMBUATAN TABLET EFFERVESCENT



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Rosella is one of herbal plant which have merit and usefulness for health. The consist of calyx rosella is anthocyanin pigment, and high nutrient C wich are natural antioxidant resource that very effectively to preventing free radical that cause cancer disease and more the other important things. It can be used as medicine like tablet, example effervescent. Anthoxianin can be extracted from polar solvent or the other which has suitability with anthoxianin like from polarity or level of soluble, example: aquades, ethanol and acetic acid. The objective of this research in general is to learn influence of variety flower and types of solvent so obtain quality powder of rosella extract, to learn influence of flower variety to characteristic and quality effervescent tablet, and to learn influence of variety solvent to characteristic and quality effervescent tablet. This research used in two stages. Phase I studies using RAK factorial with two factors and repeated 3 times. Factor I: varieties of flowers (R1 = red, R2 = purple), Factor II: the proportion of solvent (P1 = aquades, P2 = ethanol, P3 = acetic acid) with the addition of citric acid and aquades in the ratio (49:1:50). Phase II studies do effervescent tablet manufacturing process by using two combinations produced the best treatment of stage I studies, each based on rosela flower varieties. Parameter used in this research is water content, pH, absorbance and color intensity. Then after the effervescent tablet, made observations of the pH value, texture, water content, viscosity, reducing sugar, total dissolved solids, color intensity, speed of late, and includes organolpetik (appearance, aroma and taste). The research indicate that in rosela extract powder that is a better value is the proportion of red rosela acetic acid solvent with a brightness (L) 32.6; reddish (a+) 10.5; yellowish (b+) 2.57; and the varieties rosela purple with solvent aquades proportion with brightness (L) 33.0; reddish (a+) 3.7; and blue (b-) 1.97. The research indicate effervescent tablets results that the treatment rosela purple varieties with the proportion of solvent aquades has a better value with the result: 1.417 nm absorbance; brightness (L) 27.63; blue (b-) 3.77; aroma 1.95; and 3.4 appearance.