PENGARUH JENIS PELARUT PADA PROSES EKSTRAKSITERHADAP KUALITAS PIGMEN BUNGA TURI (Sesbania grandiflora (L) Pers)

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ABSTRACTION

Flower of Turi (Sesbania Grandiflora (L) Pers) owning 2 colour type that is red and white. Flower of turi red contain antosianin and flower of turi white contain flavonoid. Antosianin is pigment natural cause of orange colour, red, blue, and violate, and than flavonoid chromatic brown, yellow and not cromatic. At crop, antosianin and flavonoid there are flower, fruit, and have the character of dissolve in water (Gross, 1987).

This research purpuse to know type of solvent correct at process of ekstraksi flower of turi red and white turi and know pigment type which implied in flower of turi red and white turi which compiled.

This research use research sampel that is flower of turi red and flower of turi white. Each accurate research sampel by using simple RAK. Pigment Flower of turi red consist of 3 treatment of type of solvent different that is: aquades : cittrate acid (9 : 1), aquades : lime (9 : 1), aquades : etanol : cittrate acid (5 : 4 1) and pigment of flower turi white consist of 2 treatment of type of pelarut different that is: aquades : cittrate acid (9 : 1), aquades : acetate acid (95 : 5). Each treatment at both the pigment above repeated counted 3 times. After obtaining result of analysis of the pigment above determined by best pigment amount and quality from each flower of turi.

Result of research indicate that flower of turi red contain antosianin with type of Sianidin 3glokosida and pelargonidin 3 (pumarilglukosida) 5glukosida while flower of turi white contain pigment of flavonoid with type of apigenin (flavon) of kuersetin (flavonol).

Quality of best pigment of flower of turi red with extract use solvent of aquades : cittrate acid : etanol have pH 1,67, absorbance 30,67, colour intensity assess L 25,17 value of a + 10,47, value of b 0,37, owning rate of antosianin 42 mg / 100ml and rendemen 24,13 %.

Quality of best pigment of flower of turi white with extract use solvent of aquades : cittrate acid have pH 1,17, absorbance 22,87, colour intensity assess L 40,93, value of a + 1,10, value of b + 37,10 and rendemen 16, 10%.