

ABSTRAK

Tumbuhan *Zingiber aromaticum* Val plant, *Zingiber littorale* Val, dan *Zingiber zerumbet* banyak tumbuh tersebar di berbagai wilayah Indonesia, khususnya rimpang *Zingiber aromaticum* Val, *Zingiber littorale* Val dan *Zingiber zerumbet* mengandung metabolit skunder. Hasil pengujian karakteristik pada amilum *Zingiber aromaticum* Val, *Zingiber littorale* Val dan *Zingiber zerumbet* didapat hasil uji organoleptik, uji mikroskopik sesuai dengan literatur, uji kompresibilitas amilum *Zingiber aromaticum* Val ($23,79 \pm 0,47$)%, *Zingiber littorale* Val ($27,61 \pm 0,96$)% dan amilum *Zingiber zerumbet* ($27,43 \pm 0,79$)%, Uji sifat alir untuk amilum *Zingiber aromaticum* Val ($1,65 \pm 0,01$)g/det, amilum *Zingiber littorale* Val ($1,28 \pm 0,03$)g/det dan amilum *Zingiber zerumbet* $1,56 \pm 0,10$)g/det. Uji kadar air untuk amilum *Zingiber aromaticum* Val ($2,3 \pm 0,58$)%, amilum *Zingiber littorale* Val ($4,67 \pm 1,53$)% dan amilum *Zingiber zerumbet* ($3,33 \pm 1,53$)%. Uji susut pengeringan amilum *Zingiber aromaticum* Val ($7,50 \pm 0,37$)%, amilum *Zingiber littorale* Val ($8,64 \pm 0,18$)% dan amilum *Zingiber zerumbet* ($8,83 \pm 0,26$)%. Uji kelarutan amilum *Zingiber aromaticum* Val ($302,98 \pm 36,62$)ml/gr, amilum *Zingiber littorale* Val ($298,27 \pm 27,55$)ml/gr dan amilum *Zingiber zerumbet* ($227,50 \pm 9,90$)ml/gr. Pada pengujian pH di dapat hasil ($5,63 \pm 0,29$) untuk *Zingiber aromaticum* Val, ($5,74 \pm 0,20$) untuk amilum *Zingiber littorale* Val dan ($5,85 \pm 0,21$) untuk amilum *Zingiber zerumbet*. skrining fitokimia amilum *Zingiber aromaticum* Val terdapat senyawa flavonoid, saponin, tanin dan terponoid, *Zingiber littorale* Val terdapat senyawa flavonoid, tanin dan terpenoid dan *Zingiber zerumbet* memiliki senyawa flavonoid dan terponoid.

Kata kunci : amilum, *Zingiber aromaticum* Val, *Zingiber littorale* Val , *Zingiber zerumbet*, skrining fitokimia

ABSTRACT

Zingiber aromaticum Val plant, *Zingiber littorale* Val, and *Zingiber zerumbet* are well known in various parts of Indonesia. Amylum *Zingiber aromaticum* Val, *Zingiber littorale* Val, and *Zingiber zerumbet* contain secondary metabolites. The test results on the amyllum of *Zingiber aromaticum* Val, *Zingiber littorale* Val and *Zingiber zerumbet* obtained organoleptic test results, microscopic tests according to the literature, the compressibility test of amyllum *Zingiber aromaticum* (23.79 ± 0.47)%, *Zingiber littorale* Val (27.61 ± 0.96)% and *Zingiber zerumbet* (27.43 ± 0.79)%, Flow properties test for *Zingiber aromaticum* amyllum (1.65 ± 0.01)g/sec, *Zingiber littorale* Val amyllum (1.28 ± 0.03)g/sec and amyllum of *Zingiber zerumbet* (1.56 ± 0.10)g/sec. Test the water content for the amyllum of *Zingiber aromaticum* (2.3 ± 0.58)%, *Zingiber littorale* Val (4.67 ± 1.53)% and the amyllum of the *Zingiber zerumbet* (3.33 ± 1.53)%. Drying shrinkage test of amyllum *Zingiber aromaticum* Val (7.50 ± 0.37)%, amyllum *Zingiber littorale* Val (8.64 ± 0.18)% and amyllum *Zingiber zerumbet* (8.83 ± 0.26)%. Solubility test of *Zingiber aromaticum* Val amyllum (302.98 ± 36.62)ml/gr, amyllum lempuyang pahit ($298,27 \pm 27,55$)ml/gr and amyllum *Zingiber zerumbet* (227.50 ± 9.90)ml/gr. The testers obtained the pH of the results (5.63 ± 0.29) for the amyllum *Zingiber aromaticum* Val, (5.74 ± 0.20) for the amyllum *Zingiber littorale* Val and (5.85 ± 0.21) for the amyllum *Zingiber zerumbet*. Phytochemical screening of amyllum *Zingiber aromaticum* Val contained flavonoids, saponins and tannins, *Zingiber littorale* Val contained flavonoids, tannins and terpenoids, and *Zingiber zerumbet* had flavonoids and terpenoid compounds.

Keywords: amyllum, *Zingiber aromaticum* Val, *Zingiber littorale* Val, *Zingiber zerumbet*, phytochemical screening