

PENGARUH UMUR DAUN CINCAU DAN KONSENTRASI EKSTRAK BELIMBING WULUH TERHADAP SIFAT FISIK, KIMIA, DAN TINGKAT KESUKAAN GEL CINCAU HIJAU

INTISARI

Daun cincau hijau (*Cyclea barbata* Miers) banyak ditemui di berbagai tempat di Indonesia, dari pasar tradisional hingga di pusat perbelanjaan moderen. Tujuan penelitian ini adalah memperoleh formula terbaik umur daun cincau dan penambahan ekstrak belimbing wuluh melalui analisis fisik, kimia dan organoleptik.

pembuatan gel cincau dan konsentrasi ekstrak belimbing wuluh, konsentrasi 3 ml, 6 ml dan 9 ml dan umur daun cincau (tua, sedang, muda), lalu di blender dan disaring hingga mengeluarkan lendir hijau dan tunggu hingga mengental. Penelitian ini menggunakan Rancangan Acak Lengkap (RAL) dua faktorial yaitu faktor A adalah konsentrasi ekstrak belimbing wuluh (3 ml, 6 ml dan 9ml) dan daun umur daun cincau hijau (tua, agak tua, muda) Masing-masing perlakuan dilakukan 2 kali ulangan, sehingga diperoleh total perlakuan $3 \times 3 \times 2 = 18$.

Hasil penelitian menunjukkan bahwa gel cincau terbaik berdasarkan sifat fisik, kimia, dan tingkat kesukaan adalah gel cincau dengan umur daun tua dan ekstrak belimbing wuluh 9 ml. kadar air 99,38 %, vitamin C 18,59 mg/g, flavonoid 1,43 mgEK/g bb, pH 4,64, zat pada terlarut 1,00%, tekstur 154,00 g/m², waktu penjendalan 9,00 menit, berat gel 6,00 gram.

Kata kunci : Sifat kimia cincau hijau, cincau, gel cincau hijau

THE INFLUENCE OF GREEN GRASS LEAVE AGE AND CONCENTRATION OF BILIMBI EXTRACT ON THE PHYSICAL, CHEMICAL, AND PREFERENCE LEVEL PROPERTIES OF GREEN GRASS GEL

ABSTRACT

Green grass leaves (*Cyclea barbata* Miers) are commonly found in various places in Indonesia, from traditional markets to modern shopping centers. The purpose of this study is to obtain the best formula of grass leaves and the addition of bilimbi extract through the analysis of physical, chemical and organoleptic characteristics.

Green grass gel is made with bilimbi extract concentration, concentrations of 3 ml, 6 ml and 9 ml and age of grass jelly (old, medium, young). Then blend and filtered until releasing the green mucus and wait until thickened. This study uses a completely randomized design (CRD) two factorial. Factor A is the concentration of bilimbi extract (3 ml, 6 ml, and 9ml) and the age of green grass jelly leaves (old, a bit old, young). Each treatment was performed 2 times, in order to obtain a total treatment of $3 \times 3 \times 2 = 18$.

The results showed that the best grass gel based on the physical, chemical, and the level of preference is grass gel with old leaves and extract bilimbi 9 ml of water content 99.38%, 18.59 mg vitamin C/g, flavonoids 1.43 mgEK/g bb, pH 4.64, 1.00% of dissolved substances in texture 154.00 g/m², time clinging 9.00 minutes, 6.00 grams of gel weight.

Keywords: chemical properties of green grass, grass gel, green grass gel