

INTISARI

IRAWATI, A., 2019, UJI AKTIVITAS *SPRAY TOILET SEAT SANITIZER* KOMBINASI EKSTRAK DAUN SIRIH HIJAU (*Piper betle* L.) DAN RIMPANG LENGKUAS PUTIH (*Alpinia galanga* (L.) Willd) TERHADAP *Candida albicans* ATCC 10231 ,SKRIPSI, FAKULTAS FARMASI, UNIVERSITAS SETIA BUDI, SURAKARTA.

Kandungan kimia daun sirih hijau adalah flavonoid, saponin, tanin, steroid, dan rimpang lengkuas putih mengandung mengandung saponin, tanin, flavonoid yang memiliki aktivitas antijamur terhadap *Candida albicans* ATCC 10231. Berdasarkan aktivitas antijamur daun sirih hijau dan rimpang lengkuas putih maka dibuat sediaan *spray toilet seat sanitizer* yang mudah digunakan dan nyaman pada saat penggunaan toilet umum. Penelitian ini bertujuan untuk mengetahui mutu fisik dan stabilitas sediaan *spray toilet seat sanitizer* serta mengetahui aktivitas antijamur *spray toilet seat sanitizer* ekstrak kombinasi daun sirih hijau dan rimpang lengkuas putih yang berkhasiat sebagai antijamur teraktif dibanding sediaan tunggalnya.

Ekstrak daun sirih hijau dan rimpang lengkuas putih diperoleh dengan metode maserasi dan pembuatan *spray toilet seat sanitizer* dengan membandingkan ekstrak tunggal daun sirih hijau dan ekstrak tunggal rimpang lengkuas putih dengan kombinasi 1:1, 2:1, 1:2. Uji aktivitas antijamur *spray toilet seat sanitizer* kombinasi ekstrak daun sirih hijau dan rimpang lengkuas putih dilihat dari daya hambat yang terbentuk.

Ekstrak daun sirih hijau dan rimpang lengkuas putih dalam sediaan *spray toilet seat sanitizer* memiliki mutu fisik yang baik dan stabilitas baik hingga hari ke 14. Formulasi *spray toilet seat sanitizer* kombinasi ekstrak daun sirih hijau dan rimpang lengkuas putih dengan perbandingan 1:2 memiliki aktivitas antijamur paling efektif terhadap *Candida albicans* ATCC 10231.

Kata Kunci: *Candida albicans* ATCC 10231, *spray toilet seat sanitizer*, *Piper betle* L. dan *Alpinia galanga* (L.)Willd

ABSTRACT

IRAWATI , A., 2019., *SPRAY TOILET SEAT SANITIZER ANTIFUNGAL ACTIVITY TEST COMBINATION OF GREEN BETLE FOLIUM(*Piper betle* L.) AND WHITE RHIZOME GALANGA (*Alpinia galanga* (L.)Willd) *Candida albicans* ATCC 10231, SKRIPSI, FAKULTAS FARMASI, UNIVERSITAS SETIABUDI, SURAKARTA.*

The chemical content of betle leaf are flavonoids, saponins, tanins, steroids, and galangal rhizomes containing white saponins, tanins, flavonoids which have antifungal activity against *Candida albicans* ATCC 10231. Toilet seat sanitizer that is easy to use and comfortabel when using public toilets. This study aims to know physical quality and stability in the spray toilet seat sanitizer preparation, to determine the antifungal activity of the toilet seat sanitizer extract of a combination of betle leaf and galangal rhizome that has efficacious as an antifungal against *Candida albicans* ATCC 10231 oppose single preparation.

Green betle leaf extract and white galangal rhizome are obtained by maceration method and making toilet seat sanitizer spray by comparing single extract of green betle leaf and single extract of white galangal rhizome compared 1,5:1,5; 2:1; 1:2. Antifungal activity test spray toilet seat sanitizer combination of betle leaf extract and galangal rhizome is seen by the amount of inhibition formed.

Green betle leaf extract and white galangal rhizome can be made into toilet seat sanitizer preparations with good physical properties and good stability untill day 14. Results of antifungal spray toilet seat sanitizer activity with various variations have activity against *Candida albicans* ATCC 10231. Spray toilet seat sanitizer formulation combination of green betle leaf extract and whithe galangal rhizome of 1: 2 has the most effective antifungal activity against *Candida albicans* ATCC 10231.

Keywords: *Candida albicans* ATCC 10231, spray toilet seat sanitizer, *Piper betle* L , *Alpinia galanga* (L.) Willd.