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ANALISIS SILDENAFIL SITRAT DALAM SAMPEL JAMU KUAT DENGAN METODE SPEKTROFOTOMETRI UV

ABSTRAK

Latar Belakang : Sildenafil sitrat adalah obat untuk meningkatkan daya seksual dan memperlancar aliran darah ke lingga (bagian reproduksi pria). Penggunaan yang tidak terkendali dapat menyebabkan keracunan. Senyawa ini di duga kuat dicampurkan dalam jamu kuat. Tujuan dari penelitian ini untuk menganalisa secara kualitatif dan kuantitatif kandungan sildenafil sitrat dalam jamu kuat.

Metode : Pada penelitian ini, dilakukan analisis pada 5 sampel jamu kuat. Sampel diambil secara *purposive sampling*. Analisis BKO sildenafil sitrat dilakukan secara kualitatif dan kuantitatif menggunakan metode spektrofotometri UV.

Hasil : Berdasarkan hasil analisis kualitatif dengan metode spektrofotometri UV, didapatkan bahwa sampel jamu kuat A, B, dan E mempunyai spektrum panjang gelombang yang hampir sama dengan baku sildenafil sitrat dengan λ_{\max} : 290,60 nm. Dari hasil analisis kuantitatif persamaan kurva kalibrasi yang diperoleh dari penelitian adalah $y = bx+a$ dengan nilai b sebesar 0,0214, a sebesar 0,0037, dan R^2 sebesar 0,9978. Dari hasil analisis kualitatif dan kuantitatif didapatkan kadar sildenafil sitrat pada sampel A sebesar 53,112%, B sebesar 23,578%, dan E sebesar 15,448%.

Simpulan : Terdapat 3 sampel jamu kuat yang mengandung sildenafil sitrat, yaitu sampel A sebesar 53,112%, B sebesar 23,578%, dan E sebesar 15,448%.

Kata Kunci : Jamu Kuat; BPOM; Sildenafil sitrat; Spektrofotometri UV.

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ANALYSIS OF SILDENAFIL CITRATES IN SAMPLES OF JAMU KUAT USING UV SPECTROPHOTOMETRY METHOD

ABSTRACT

Background : *Sildenafil citrate is a drug to increase sexual power and facilitate blood flow to the phallus (male reproductive part). Uncontrolled use can cause poisoning. This compound is suspected to be strongly mixed in jamu kuat. The purpose of this study was to analyze qualitatively and quantitatively the content of sildenafil citrate in jamu kuat.*

Methods : *In this study, analysis was carried out on 5 samples of jamu kuat. Samples were taken by purposive sampling. Sildenafil citrate BKO analysis was carried out qualitatively and quantitatively using UV spectrophotometry method.*

Results : *Based on the results of qualitative analysis using UV spectrophotometric method, it was found that the samples of jamu kuat A, B, and E had a wavelength spectrum that was almost the same as the standard sildenafil citrate with λ_{max} : 290.60 nm. From the results of the quantitative analysis of the calibration curve equation obtained from the study, it is $y = bx+a$ with a value of b of 0.0214, a of 0.0037, and R^2 of 0.9978. From the results of qualitative and quantitative analysis, the levels of sildenafil citrate in sample A was 53.112%, B was 23.578%, and E was 15.448%.*

Conclusion : *There were 3 samples of jamu kuat containing sildenafil citrate, namely sample A was 53.112%, B was 23.578%, and E was 15.448%.*

Keywords: *Jamu Kuat; BPOM; Sildenafil Citrate; UV Spectrophotometry.*