UJI AKTIVITAS ANTIHIPERURISEMIA EKSTRAK ETANOL 70% KULIT LEMON (*Citrus limon* Linn.) TERHADAP MENCIT JANTAN GALUR SWISS WEBSTER YANG DIINDUKSI JUS HATI AYAM DAN KALIUM OKSONAT

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Hiperurisemia merupakan kondisi ketika kadar asam urat dalam darah melebihi batas normal. Salah satu tanaman di Indonesia yang banyak dijumpai adalah jeruk lemon (*Citrus limon* Linn.). Kulit lemon (*Citrus limon* Linn.) mengandung senyawa diosmin dan hesperidin yang dapat menghambat enzim xantin oksidase sehingga dapat menurunkan kadar asam urat dalam darah. Penelitian ini bertujuan untuk mengetahui aktivitas antihiperurisemia ekstrak etanol 70% kulit lemon (*Citrus limon* Linn.) dan mengetahui dosis efektif ekstrak etanol 70% kulit lemon (*Citrus limon* Linn.) untuk menurunkan kadar asam urat dalam darah. Pengujian dilakukan terhadap mencit jantan galur swiss webster yang diinduksi jus hati ayam 0,5 mL/20 g BB dan kalium oksonat 250 mg/kg BB. Terapi dilakukan menggunakan ekstrak etanol 70% kulit lemon (*Citrus limon* Linn.) dosis 0,5 mg/20 g BB, 1 mg/20 g BB, dan 2 mg/20 g BB. Kadar asam urat diukur menggunakan fotometer klinik pada panjang gelombang 520 nm. Hasil penelitian menunjukkan bahwa ekstrak etanol 70% kulit lemon (*Citrus limon* Linn.) memiliki aktivitas antihiperurisemia. Rata-rata kadar asam urat mencit kelompok ekstrak etanol 70% kulit lemon (*Citrus limon* Linn.) dosis 0,5 mg/20 g BB, 1 mg/20 g BB, dan 2 mg/20 g BB berturut-turut sebesar 2,8750 mg/dL, 1,1500 mg/dL, dan 0,8750 mg/dL. Dosis efektif ekstrak etanol 70% kulit lemon (*Citrus limon* Linn.) yang dapat menurunkan kadar asam urat dalam darah adalah 2 mg/20 g BB mencit.

Kata kunci: hiperurisemia, asam urat, kulit lemon, jus hati ayam, kalium oksonat

ANTIHYPERURICEMIC ACTIVITY TEST OF 70% ETHANOLIC EXTRACT OF LEMON PEEL (Citrus limon Linn.) AGAINST SWISS WEBSTER STRAIN MALE MICE INDUCED BY CHICKEN LIVER JUICE AND POTASSIUM OXONATE

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Hyperuricemia is a condition when the level of uric acid in the blood exceeds the normal limit. One of the most common plants in Indonesia is lemon (Citrus limon Linn.). Lemon peel (Citrus limon Linn.) contains diosmin and hesperidin compounds which can inhibit the xanthine oxidase enzyme so that it can reduce uric acid levels in the blood. This study aims to determine the antihyperuricemic activity of 70% ethanol extract of lemon peel (Citrus limon Linn.) and to determine the effective dose of 70% ethanol extract of lemon peel (Citrus limon Linn.) to reduce blood uric acid levels. Tests were carried out on male swiss webster strain mice induced by chicken liver juice 0.5 mL/20 g BW and potassium oxonate 250 mg/kg BW. Therapy was carried out using 70% ethanol extract of lemon peel (Citrus limon Linn.) at a dose of 0.5 mg/20 g BW, 1 mg/20 g BW, and 2 mg/20 g BW. Uric acid levels were measured using a clinical photometer at a wavelength of 520 nm. The results showed that the 70% ethanol extract of lemon peel (Citrus limon Linn.) had antihyperuricemic activity. The average uric acid level of mice in the 70% ethanol extract of lemon peel (Citrus limon Linn.) at a dose of 0.5 mg/20 g BW, 1 mg/20 g BW, and 2 mg/20 g BW, respectively, was 2, 8750 mg/dL, 1.1500 mg/dL, and 0.8750 mg/dL. The effective dose of 70% ethanol extract of lemon peel (Citrus limon Linn.) which can reduce uric acid levels in the blood is 2 mg/20 g BW mice.

Keywords: *hyperuricemia, gout, lemon peel, chicken liver, potassium oxonate*