

**PENGARUH PEMBERIAN SARI MARKISA UNGU (*Passiflora edulis var edulis*) TERHADAP KADAR TOTAL PROTEIN
STUDI UJI TOKSISITAS SUBKRONIS PADA TIKUS PUTIH (*Rattus norvegicus*) GALUR WISTAR**

ABSTRAK

Latar Belakang: Markisa ungu merupakan buah kaya akan antioksidan. Antioksidan berlebih dapat memengaruhi fungsi hepar. Fungsi hepar berkaitan dengan sintesis total protein.

Tujuan: Mengetahui pengaruh pemberian sari markisa ungu (*Passiflora edulis var edulis*) dalam jangka waktu subkronis (28 hari) per oral terhadap kadar total protein pada hewan uji tikus (*Rattus norvegicus*) galur Wistar.

Metode: Penelitian eksperimental dengan *post-test only with control group design*. Lima puluh ekor tikus dibagi ke dalam 5 kelompok secara acak. Kelompok K I: kontrol normal, K II: perlakuan sari markisa ungu berdosisi 4,2 mL/200 g BB/hari, K III: perlakuan sari markisa ungu berdosisi 8,4 mL/200 g BB/hari, K IV: perlakuan sari markisa ungu berdosisi 12,6 mL/200 g BB/hari, K V: perlakuan sari markisa ungu berdosisi 16,8 mL/200 g BB/hari. Kadar total protein diperiksa menggunakan metode Biuret. Data dianalisis menggunakan uji *Kruskal-Wallis*.

Hasil: Rerata kadar total protein pada K I, K II, K III, K IV, dan K V berturut-turut adalah 6,31 g/dL, 6,32 g/dL, 6,26 g/dL, 6,53 g/dL, dan 6,5 g/dL. Uji *Kruskal-Wallis* bernilai $p=0,57$ ($p>0,05$).

Kesimpulan: Pemberian sari markisa ungu (*Passiflora edulis var edulis*) dalam jangka waktu subkronis (28 hari) per oral tidak berpengaruh terhadap kadar total protein pada hewan uji tikus (*Rattus norvegicus*) galur Wistar.

Kata Kunci: Hepar, Sari Markisa Ungu, Total Protein, Uji Toksisitas Subkronis, Wistar.

**THE EFFECT OF PURPLE PASSION FRUIT (*Passiflora edulis* var *edulis*)
JUICE ON PROTEIN TOTAL LEVEL
SUBCHRONIC TOXICITY TEST OF WHITE RAT (*Rattus norvegicus*)
WISTAR**

ABSTRACT

Background: Purple passion fruit was rich in antioxidants. Excessive amount of antioxidants could affect liver function. The liver function was associated with synthesis of protein total.

Aim: To understand the effect of 28 days of oral administration of purple passion fruit juice (*Passiflora edulis* var *edulis*) on the level of protein total of white rat (*Rattus norvegicus*) Wistar in a sub-chronic toxicity test.

Methods: Experimental studied with post-test only control group design. Fifty rats was randomly divided into 5 groups. Group K I: normal control, K II: treated with purple passion fruit juice at 4.2 mL/200 g BB/day dose, K III: treated with purple passion fruit juice at 8.4 mL/200 g BB/day dose, K IV: treated with purple passion fruit juice at 12.6 mL/200 g BB/day dose, K V: treated with purple passion fruit juice at 16.8 mL/200 g BB/day dose. The protein total level checked by Biuret's method. Data analyzed by Kruskal-Wallis's test.

Results: The mean level of protein total in group K I, K II, K III, K IV, and K V are 6.31 g/dL, 6.32 g/dL, 6.26 g/dL, 6.53 g/dL, 6.5 g/dL. The Kruskal-Wallis's test shows p value=0.57 ($p>0.05$).

Conclusion: The administration of purple passion fruit juice does not significantly affect the protein total level of white rat in sub-chronic toxicity test.

Keywords: Liver, Protein Total, Purple Passion Fruit Juice, Sub-chronic Toxicity Test, Wistar.