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Poster Presentation

Study of Proximate Analysis, Taurine Content and Toxicity in Meal and Extraction of Mudskipper (*Periophthalmodon schlosseri*) in Southeast Sulawesi

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Keywords

Mudskipper · Taurine · Toxicity test

Background/Aims: This study aimed to analyze the proximate value, taurine content, and toxicity in ethanol extract and mudskipper meal. **Results:** Based on the analysis of the proximate content, it was found that the water content of extract and mudskipper meal were 28.17 ± 0.37 and 8.03 ± 0.21 respectively. Ash content was 9.29 ± 0.11 and 5.30 ± 0.24 respectively. Fat levels were 3.62 ± 0.17 and 5.46 ± 0.28 . Protein content was 48.84 ± 1.12 and $61.67 \pm 0.33\%$ respectively. Carbohydrate levels were 10.09 ± 1.08 and 19.53 ± 0.70 , respectively. The level of taurine an extract of mudskipper was 1497.59 mg/l, while in flour it was 3490.81 mg/l. Based on the results of the separation of the fish body it was known that the taurine level in the head was 145.68 mg/ 100 g, on the skin was of 202.74 mg/ dl, in meat 1225.01 mg/ 100 g, in the stomach contents of 261.02 mg/ 100 g. The extract in toxicity testing showed an LC50 value of 70.97 ppm, while in flour it was 95.71 ppm. **Conclusions:** Thus, ethanol extract and mudskipper meal have the potential for toxicity. However, when each part of the fresh mudskipper was separated between the head, skin, meat and stomach contents, the values of each LC50 were 28.82, 17.85, 1109.03 and 812.63 ppm. Thus, the head and skin of mudskipper were very toxic, stomach contents are toxic while mudskipper meat is not toxic to *Artemia salina* Leach larvae. It is recommended to continue the research by doing several treatments in an effort to eliminate or reduce toxicity and isolate the active compounds that are toxic.

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