

## **Influence of the effect rapeseed cake in feed on nutritional quality of *Gryllus assimilis***

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Since 2003, the Food and Agriculture Organization of the United Nations (FAO) has recognized the potential use of edible insects for food and feed and has supported a line of topics related to edible insects. Jamaican field crickets (*Gryllus assimilis*) belong among the most promising edible insect species for production as food or feed. Crickets are generally artificially reared on the dried substrates, when soybean is used as a major protein component.

In this study, we aimed to evaluate the effect of replacement of soybean meal by rapeseed meal, the by-product from oil production. The crickets were provided by dried "chicken feed based" substrate, when 25, 50, 75 and 100% of soybean meal was replaced by rapeseed meal. Although there was an increase in fat content at the expense of protein, the resulting fatty acid profile in crickets feed rappeded cakes showed a lower proportion of saturated fatty acids and an improvement in the ratio of omega-3 to omega-6 fatty acids. In conclusion, rapeseed cakes can be recommended as a possible alternative to soy feed for crickets.

Dedications: This project was supported by the Grant Agency of the Czech Republic GAČR project No. 21-47159L, Quality, safety and authenticity of insect protein-based food and feed products (INPROFF), by the METROFOOD-CZ research infrastructure project (MEYS Grant No: LM2023064) including access to its facilities and by National Resource for Agricultural Research (NAZV) project - QK23020101.

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