**Abstract will be presented in: format (oral or poster)**

**FEEDING BLACK SOLDIER FLY** **LARVAE IMPROVED FATTY ACIDS PROFILE OF GOAT’S MILK**

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**Introduction**

Black soldier fly (BSF) is a potential protein feed for livestock (Barragan-Fonseca et al., 2017). This study evaluated the effects of supplementing larvae of BSF on yield and fatty acids profile of milk in goats.

**Materials and Methods**

Twelve Saanen dairy goats at mid lactation were fed with different levels of BSF larvae for 30 days. Weekly milk production were recorded and milk samples were taken for fatty acids profile analysis using the gas chromatography.

**Results and Discussion**

Study found that daily milk yield was not affected but goats supplemented with BSF had lower saturated fatty acids content and higher unsaturated fatty acids content in milk (Table 1). The fatty acids ………………………………(Supriyatna et al., 2018).

Table 1. Fatty acids profile of milk of goat supplemented with different level of Black sodier fly larvae

|  |  |  |  |
| --- | --- | --- | --- |
| **Fatty acid** | **0%** | **5%** | **10%** |
| C12:0 | 11.14±0.05c | 8.23±0.18a | 6.92±0.13ab |
| C14:0 | 10.10±0.02c | 6.35±0.04ab | 4.39±0.04a |
| C14:1 | 5.12±0.02c | 10.35±0.04ab | 15.39±0.04a |

Mean values in the same row with different superscript are significantly different at p<0.05. Values are given in means±standard error.

**Conclusion**

Supplementation of BSF larvae at 10% for 30 days significantly improved the fatty acids profile of goat’s milk.

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**References**

Barragan-Fonseca, K.B., et al. 2017. Journal of Insects as Food and Feed, 3(2), 105-120.

Supriyatna, A., et al., 2018. Journal of Biology & Biology Education, 10(2), 448-454.