



Effects of *Eucalyptus citriodora* essential oil and its major component, citromellal, on *Haemonchus contortus* isolates susceptible and resistant to synthetic anthelmintics

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ABSTRACT

This study aimed to evaluate the effects of *Eucalyptus citriodora* essential oil and citromellal on a *Haemonchus contortus* isolate susceptible to anthelmintics, the natural isomeric citral (CIT) and a resistant *Haemonchus contortus* isolate. The oil was analyzed by gas chromatography (GC). The isolates were evaluated using an egg hatching test (EHT), a larval development test (LDT) and an adult worm viability test (AWVT). The essential concentrations in isolates were 100% (CIT) of egg hatching and larval development and resistance tests (EHT) were performed. The results were analyzed by analysis of variance and Fisher's or Bonferroni's test. The major component of E. citriodora oil was citromellal (84.0%). According to EHT, ECTH values for the CIT isolate were 0.5 mg/ml and 0.5 mg/ml for the resistant isolate, values were 0.5 mg/ml and 0.5 mg/ml for oil and citromellal, respectively. LDT ECTH values were 1.5 mg/ml and 1.5 mg/ml for the CIT isolate and 1.5 mg/ml and 1.5 mg/ml for the resistant isolate for oil and citromellal, respectively. In AWVT, 2 mg/ml of oil and citromellal completely inhibited the motility of both the CIT and resistant isolates. Also between the isolates ranged from 1 to 1.5. No significant differences were observed between the isolates in treatment comparisons ($P > 0.05$). Therefore, E. citriodora oil and citromellal both exhibited acaricidal and larvicidal effects and inhibited the motility of both the sensitive isolate.

1. Introduction

Chemotherapy parasite prevention is one of the main limiting factors of small ruminant production that endangers the well-being and health of sheep and goats worldwide. *Haemonchus contortus* is considered one of the most prevalent and pathogenic parasites of small ruminants in Brazil (Araújo and Pinheiro, 2014; Ferreira et al., 2015).

The most commonly used method for controlling gastrointestinal parasites is the administration of synthetic anthelmintics. However, the use of these drugs has promoted selection of resistant parasite populations globally, and anthelmintic resistance is currently considered the main obstacle for parasite control (Dias and Pinheiro, 2016; Sutherland and Leathwick, 2016). Accordingly, the search for alternative control methods has become essential. Among these

alternatives, the use of secondary metabolites derived from plants has received attention (Araújo et al., 2016; Ribeiro et al., 2016; Torres-Arreola and Torres, 2016).

Many studies suggest that essential oils, which are complex mixtures of volatile compounds produced by aromatic plants and used as disinfectants against harmful agents, may have anthelmintic activity (Almeida et al., 2014; Ribeiro et al., 2014). Promising results for inhibition of egg hatching, larval development and adult worm viability have been observed after treatments of essential oils with nematodes (Ferreira et al., 2014; Macedo et al., 2015). Reduction in nematode egg motility and worm burden have also been recorded in goats and sheep after administration of plant secondary metabolites (Almeida et al., 2015; Ribeiro et al., 2015). Although essential oils can contain more than 100 compounds, few or three compounds are major constituents and

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