

Potential Use of Synthetic and Natural Aromatic Mixtures in Prevention from Cockroaches of *Shelfordella lateralis* Genus

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The aim of our study was to find out how natural essential oils, medicinal plants, cosmetic fragrances, food flavors, smoke liquids, and fishing lures affected the motor activity of *Shelfordella lateralis* cockroaches. This cockroach species is known to be a carrier of pathogens of infectious diseases and helminths. In fact, the study aims to find alternatives to toxic insecticides that have a lower impact on human health and the environment. According to the study's findings, 58 aromatic mixtures were divided into 17 repellent, 7 attractive, and 34 indifferent. Cockroaches are attracted by the essential oils *Citrus reticulata* and *Mentha piperita*, as well as the cosmetic fragrance "Lilac" and the food flavor "Biscuit." They attracted 60–70% of insects from a half-meter distance. These substances can be used as bait for traps and poisons, as well as pheromone traps, in everyday life. The essential oils of *Eucalyptus globulus* and *Calendula officinalis*, as well as the cosmetic fragrance "Verbena" and the food flavor "Barberry," are the most promising repellent mixtures. At a distance of up to 40 cm, these substances scared away 80 percent of imago. Repellents can be used to protect industrial buildings from cockroaches.