







Controlled release of essential oils using laminar nanoclay and porous halloysite / essential oil composites in a multilayer film reservoir

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Highlights

- Orange oil and thyme oil can be adsorbed in both type of clays: Halloysite and Montmorillonite clay.
- Clay/EOs encapsulated in a multilayer film promote a prolonged aroma release for longer times.
- This multilayer-clay/EOs could be an option to prepare aroma-controlled release systems.

Abstract

In this work the preparation and characterization of a multilayer film reservoir with clay/essential oil (EO) composites is described. The goal is to analyze the potential use of these reservoirs with