

The inhibitory activity of olive leaves Olea europaea on some yeasts pathogens

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Abstract

The present study aimed at preparing three plant extracts (aqueous, acetonic, ethanolic) from *Olea europaea* and extracting some phenolic compounds from plant leaves through HPLC technique and chemically analyzing them through FTIR to determine their chemical composition, Then measuring the inhibitory activity of these extracts and the phenolic compounds towards some yeasts pathogens. The study showed that the aqueous extract was the most effective towards the yeast, followed by the acetone extract and then ethanol, which was effective against yeast *Candida glabrata* and *Candida krusei* only. The Phenolic compound Rutin had an effect on the yeast of *C.albicans*, *C.glabrata* and *C.incopiscua*, without significant differences between them and no effect was recorded against the rest of the yeasts. Quercetin recorded effect against *C.parapsilosis* only. Vanillic acid had effect against *C.glabrata* yeast and *C.parapsilosis* only, and when mixed these compounds found to be inhibitory effectiveness increases against most Yeast.