

ANTIFUNGAL ACTIVITY OF IRAQI PROPOLIS IN DIFFERENT FRUIT JUICES

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Abstract

The aim of this study is to examine the antifungal effect of ethanolic extract of Iraqi propolis against 3 different yeasts isolated from the spoiled orange and apple, these isolated yeasts include: *Candida tropicalis*, *Debaryomyces hansenii* (*Candida famata*) and *Pichia tropicalis* (*Candida guilliermondii*).

The results showed that MIC of Iraqi propolis were 0.1, 0.4 and 0.1mg/ml in orange juice respectively and 0.4, 0.8 and 0.2mg/ml in apple juice respectively at 30°C .

MIC of Na benzoate which was used as positive control, were 40, 160 and 80 µg/ml in orange juice respectively and 320, 640 and 320 µg/ml in apple juice respectively at 30°C .

The preliminary chemical analysis of active compounds showed that the Iraqi propolis contains resins, flavonoids and phenols.