

INHIBITION ACTIVITY OF PLANT EXTRACT *Thymus vulgaris* AND *Mentha piperita* AGAINST *Candida albicans*

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ABSTRACT

The results of this study showed that there was high activity for extract plants *Thymus vulgaris* and *Mentha piperita* against *Candida albicans* ,The infection ratio of Candidiasis that found in Diyala province was 69.3 % . In studying some virulence factors for *Candida albicans* were the average activity adherence ratio with epithelial cells was 17.5, and activity average Phospholipase %33. The Minimal Fungicidal Concentration (MFC) of antifungal (Flucanazole, Ketacanazole, Nystatin) was 50 µg/ml.

AL- coholic extracts (Ethanol70%) for thyme and Peppermint gave better compared to the activity thyme is better activity than Peppermint extract: In rate 100 mg /ml for the thyme alcoholic extracts (Ethanol70%) give the highest inhibition ratio 100% while in concentration 20 mg/ml for cold water extract Peppermint plant gave the lowest inhibition ratio 66.66%.

The concentration 80,100 mg/ml for the alcoholic extracts of thyme and also the concentration 100 mg/ml for alcoholic extracts (Ethanol70%) of Peppermint howed similar activity to Nystatin (2mg/ml) in inhibition of *C.albicans* .

Key words : *Thymus vulgaris* , *Mentha piperita* , *Candida albicans*.