Potent Synergism of the Combination of Natural Honey and Peganum harmala Seeds against Candida albicans ATCC 10231

Moussa Ahmed1*, Baghdad Khiati2, Noureddine Djebl1, Saad Aissat1, Abdelmelek Meslem1 and Salima Bacha1
1Pharmacognosy & Api-Phytotherapy Research Laboratory, Mostaganem University, Algeria

Abstract
The research on natural products and compounds derived from natural products has accelerated in recent years because of their importance in antifungal drug discovery. The aim of the present study was to compare antifungal activity of Peganum harmala (P. harmala) alone and in combination with 6 honeys from different regions of Algeria against Candida albicans (C. albicans). The combination action of honey with P. harmala was assayed by the well agar diffusion. The results indicate that the powder of P. harmala and honey are efficient against the tested yeast. The diameter of the zone of inhibition ranged from 5 to 9.1 mm for honey and 1 to 5.6 mm for P. harmala. The diameter of the zone of inhibition ranged from 1.33 to 17 mm for honey and P. harmala. The combinations of P. harmala with six honeys samples were always more efficient. Thus, the mixture of P. harmala and honey could lead to the development of new combination antibiotics against yeast infection.

Keywords: Antifungal activity; Honey; Peganum harmala; C.albicans