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Investigation of the effect of antibacterial properties of *Eryngium caeruleum* M.B. On pathogenesis microorganisms: A review study

Alam Ara Gholami ¹, Ali Ahmadi ^{2*}

1- Professor, Department of Biological Sciences and Technologies, Islamic Azad University, Sari Branch, Sari, Iran

2- Student, Department of Biological Sciences and Technologies, Islamic Azad University, Sari Branch, Sari, Iran

Abstract

Introduction: Today, medicinal plants are used to improve the function of the physiological system of the body and health and medicinal plants have been used as food and medicine to treat or prevent diseases. With the development of new chemical drugs and various antibiotics, the harmful effects of these drugs appeared. The aim of this study was to investigate the effect of antibacterial properties of *Eryngium caeruleum* M.B. It is on the pathogenesis of microorganisms **Methods:** This review study was conducted in 2021 by searching for keywords such as antibacterial family, *Eryngium caeruleum* M.B and pathogenic factors in valid databases **Results:** Based on various studies, the results show that the alcoholic extract of *portulaca oleracea* has a greater antibacterial effect than the aqueous extract of *portulaca oleracea*. This plant is more or less moisture-resistant as a weed on the roadsides and slopes. It grows in the plains of Gorgan, Mazandaran, Gilan, Azerbaijan, Lorestan, Khuzestan, Khorasan and Tehran provinces. , Sucrose sugar and *Eryngium caeruleum* M.B. Essential oil with a pleasant smell is about 88% **Conclusion:** The diameter of growth inhibition zone in both alcoholic and aqueous extracts was related to chloramphenicol, erythromycin and ampicillin, respectively, and the lowest inhibitory concentration was related to *Staphylococcus aureus*.

Keywords: antibacterial properties , *Eryngium caeruleum* M.B. and pathogenic factors