

SYNTHESIS OF A CREAM USING THE ARGEMONE MEXICAN PLANT EXTRACT TO TREAT SKIN CONDITIONS

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Relevance. . It is now necessary to resort to medical alternatives that are safer, more convenient and easier than the available chemical drugs . As a result of the indiscriminate use of chemical drugs that gave resistance to bacteria and microorganisms, allowed scientists to search for modern materials from several sources, including plants, in order to increase yields, increase economic mobility and local industrialization . Therefore, an extract from the Mexican argemon plant was used and its components, effectiveness and activity against microorganisms were studied to reduce the spread of bacterial and fungal infections and to prepare pharmaceutical products from which it can be used

Goal of the work This study was conducted to evaluate the antibacterial capabilities of the extract of the leaves, stems and roots of the plant against bacterial species with the possibility of using it as a real antimicrobial agent in the pharmaceutical industry and to formulate and evaluate the extract of the Mexican argemone plant as an antibacterial and antifungal and identify the active substances of the plant and prepare it.

Analysis of the results The extract of the Mexican argemon plant was used by collecting, drying, grinding and extracting active substances from it using suitable solvents such as ethanol and methanol to obtain it after steaming the extract in the form of a powder and then preparing an oil emulsion from it by mixing the extract with wax and fine paraffin . The study proved that the plant extract is effective against many types of Gram-positive bacteria, which were isolated from the mouth, intestines and skin, and identified its components of active substances, as it had a significant role in the elimination of fungi, bacteria and allergies, as the product conducted diffusion tests, viscosity and PH measurement .

Conclusion. It is worth noting that the potential applications of the product and extract were effective against staphylococci and other microorganisms and through which some cases of skin infections were treated.