

AIM AND OBJECTIVE

The need for new and useful compounds to provide assistance and relief in all aspects of the human condition is ever growing. Drug resistance in bacteria, the appearance of life threatening viruses, the recurring problems with disease in persons with organ transplants, and the tremendous increase in the incidence of fungal infections in the world's population.

The discovery of anti-microbials like penicillin and tetracycline paved the way for better health for millions around the world. Before penicillin became a viable medical treatment in the early 1940s, no true cure for gonorrhea, strep throat, or pneumonia existed. Patients with infected wounds often had to have a wounded limb removed, or face death from infection. Now, most of these infections can be cured easily with a short course of Antibiotics.

The screening approach has been employed extensively in the search for microorganism capable of producing useful antibiotics.

Screening of microorganisms for the production of novel antibiotics has been intensively pursued for many years by scientists. Antibiotics have been used in many fields including agriculture, veterinary and pharmaceutical industry.

Actinomycetes have the capability to synthesize many different biologically active secondary metabolites such as antibiotics, herbicides, pesticides, anti-parasitic, and enzymes like cellulase and xylanase used in waste treatment. In addition, more drugs are needed to efficiently treat parasitic protozoan and nematodal infections, such as malaria, leishmaniasis, trypanomiasis, and filariasis.

The aim of this work is the Isolation of Actinomycetes producing antimicrobial compound from soil samples collected from medicinal plants area.

The object behind this research is isolation and screening of Actinomycetes producing new useful antimicrobial compound which may cause death of the microbes which has been got resistance.

This research will be very useful for the future study for the screening of Actinomycetes from soil samples.