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Screening of Microorganisms from Water Sample of Gandhak Ki Baoli

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ABSTRACT: This study was undertaken to isolate microorganisms from water sample obtained from Gandhak ki Baoli and analyse their antimicrobial properties against various bacterial strains. There are various baolis constructed by ancient rulers to provide water to the common masses, a few of the baoli waters like Gandhak ki Baoli have special characteristics. Traces of sulphur are present in the water of the baoli. Sulphur is known for its positive effects on common skin diseases. It is used in cosmetics as well as in skin ointments for treatment of skin ailments. The water of Gandhak ki Baoli containing sulphur is depicted to have a unique microflora then other baoli waters. Various media were used to isolate different microbial strains at different dilutions. Nutrient agar, glucose yeast extract agar and potato dextrose agar were used to isolate different microbes. No fungal growth was observed on potato dextrose agar. Sulphur reducing bacteria were isolated using starkey media, they require anaerobic conditions to grow. These are known to have positive ecological effect on bioremediation of heavy metals from soil. The physiological and morphological properties of the isolated microbial strains were studied. The antimicrobial activity of water sample and the different microbial isolates isolated from sample were analysed against various bacterial strains, adequate results were observed.
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