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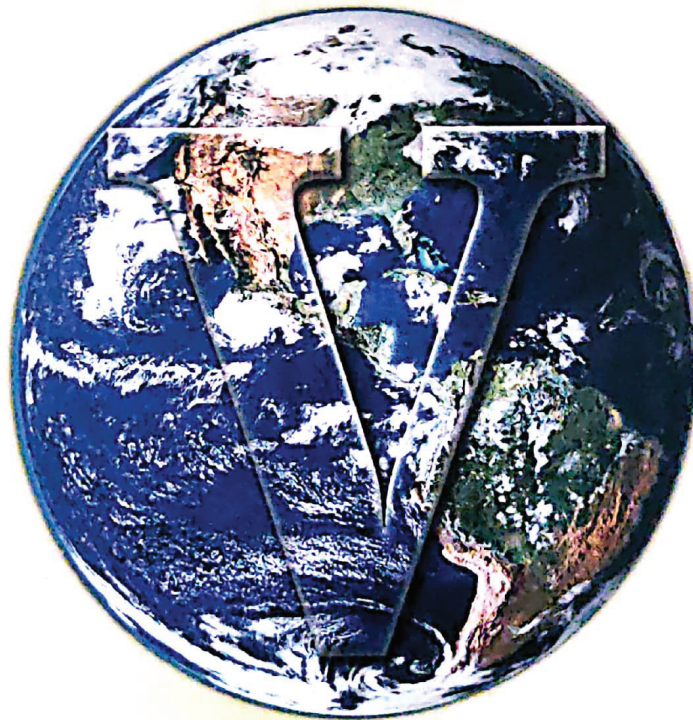
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# VISION



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## SCREENING OF PROTEUS SPECIES FROM URINE AND ITS ANTIBIOGRAM

**Dr. Arusha Nandimath**

Dept. of Microbiology,  
Shriman Bhausaheb Zabooke College,  
Barshi, Dist. Solapur

### Research Paper - Microbiology

#### ABSTRACT

*Genus Proteus belongs from family enterobacteriaceae. It consist two common pathogens viz. Proteus mirabilis and Proteus vulgaris causes urinary tract infection (UTI). These species of Proteus are released in to sewage from domestic waste and excreta of human being. In present study screening of Proteus species was carried out from urine of patient suffering from UTI using different selective medias. Urine sample from five different patients was collected in to separate sterile plastic container and brought in laboratory. The sample was plated on selective medias like MacConkeys agar (MA), deoxycholate citrate agar (DCA) and commonly used media like nutrient agar (NA). The isolated microorganism was identified as Proteus mirabilis. On checking of an antibiogram it showed susceptibility to several antibiotics like ampicillin, cefixime, gentamycin, ampicacin etc. but resistant to doxycycline, minocycline and nitrofurantoin.*

**Key Words:** UTI, Proteus, antibiogram.

#### Introduction

Genus Proteus belongs from family enterobacteriaceae. The species of this genus



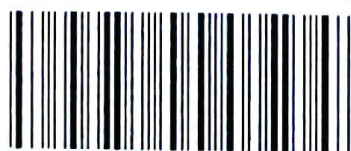
|    |                                    |             |
|----|------------------------------------|-------------|
| 19 | Ciprofloxacin 2 <sup>nd</sup> Gen. | Susceptible |
| 20 | Levofloxacin 3 <sup>rd</sup> Gen.  | Susceptible |
| 21 | Co- Trimoxazole                    | Susceptible |
| 22 | Cefoperazone/ Salbactam            | Susceptible |
| 23 | Doxycycline                        | Resistant   |
| 24 | Minocycline                        | Resistant   |
| 25 | Nitrofurantoin                     | Resistant   |

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