**Abstract**

A bacterial strain with ability to decolorize or degrade textile dye was isolated from textile effluent contaminated soil of Tripur (Tamil Nadu). The decolorization or degradation studies were performed in Nutrient Agar medium (NA) amended with different textile dye, such as Spectron yellow F3RN, Spectron Navy CLBC and Spectron Rose F3BN. The bacterial strain was identified as *Ochrobactrum atrophy* on the basis of 16S rDNA sequence. The bacterial strain exhibited very low decolorization ability in static conditions. The optimal condition for the decolorization of three different dye by *Ochrobactrum atrophy*strain were at pH 7.0 and 35°C in 60 h of incubation. To identify the similarity between the microorganisms, the sequence was submitted in NCBI (national centre for biotechnological information). As a result the *Ochrobactrum atrophy* sequences of BLAST shows the 90 % similarity with *Bacillus amyloliquefaciens,Lactobacillus jensenii 269-3* and *Anoxybacillus sp.UARK-0.*