ABSTRACT

Sulfonamides are under research of many organic synthetic chemists due to their potential activity against the different enzymes and bacterial strains. The presented work is based on the synthesis of various sulfonamides derived from substituted aniline in a basic aqueous media. These synthesized compounds were screened against Salmonella typhi (-), E. coli (-) Klebsiella pneumonae (-), Bacillis subtilis (+), Staphylococcus aerus(+) and Pseudomonas aeroginosa (-) to evaluate their biological activity. Compound 7 was highly active against Staphylococcus aerus(+) and also showed good activity towards Pseudomonas aeroginosa (-). Compound 10 was most active against Pseudomonas aeroginosa (-) and Compound 11 against Pseudomonas aeroginosa (-). Compound 8, 9 and 12 showed low and medium level activity towards selected microorganism. All the synthesized compounds were characterized by the ¹H-NMR, IR and EIMS spectral data