

ABSTRACT

Keeping in view the biological activity and medicinal importance of Anthranilic acid, the aim of this research was the synthesis of 2-[(phenylsulphonyl) amino] benzoic acid, its N-alkylated derivatives and evaluation of their anti-microbial and anti-fungal activity. 2-[(phenylsulphonyl) amino] benzoic acid was synthesized by the alkylation of o-aminobenzoic acid with benzene sulphonyl chloride. The solvent used for this reaction was DMF. N-alkylated derivatives were prepared by reacting 2-[(phenylsulphonyl) amino] benzoic acid with different alkylating agents and sodium hydride using DMF as solvent. The synthesized compounds were characterized by different techniques like NMR, IR, Anti-microbial and Antifungal activities. Evaluation of anti-microbial activity was carried out by employing agar well diffusion protocol against three bacterial strains (staphylococcus aureus, B. Subtilis, and E. Coli). Antifungal activity was employed by agar tube dilution protocol and fungal strains (Aspergillus flavus, fusarium solani and Trichophyton longifuses) were used in activity.