



## Abstract

1,3 Benzodioxol-5-amine (1) was reacted with acetyl benzene sulfonyl chloride in basic medium, in the presence of alkyl/aryl halides to produce three novel compounds 4-acetyl-*N*-(benzo[d][1,3]dioxol-5-yl)benzenesulfonamide (4a), 4-acetyl-*N*-(benzo[d][1,3]dioxol-5-yl)-*N*-ethylbenzenesulfonamide (4b) and 4-acetyl-*N*-(benzo[d][1,3]dioxol-5-yl)-*N*-ethylbenzenesulfonamide (4c). These compounds were structurally elucidated with the help of <sup>1</sup>H NMR, <sup>13</sup>C NMR and mass spectrometry. Later, these variants were biologically assayed against several notorious bacterial strains to check their biological potential. Variant 4a showed very good antimicrobial potential while variant 4b was of average potential when compared to reference standard ciprofloxacin.