



**Synthesis, Characterization and Biological Activity of Various
3-(Substituted-Benzyl)-5-(5-Bromo-7-Methoxy-Benzofuran-2-Yl)-
3h-[1, 3, 4]Oxadiazole-2-Thiones**

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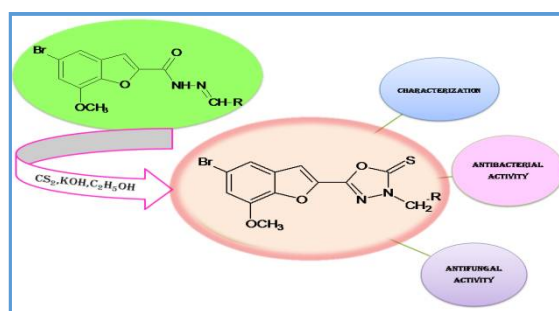
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Accepted on 20th February, 2019

ABSTRACT

The investigations in the development of biological activity of substituted benzofuran heterocycle and their Schiff's bases, continuation of search on biologically active benzofurans were reported the synthesis of benzofuran linked Oxadiazole-2-Thiones. The starting compound (**1**) was prepared by condensing 5-Bromo-7-methoxy-benzofuran-2-carboxylic acid hydrazide with various aldehydes. An attempt has been made to synthesis of various 3-(Substituted-Benzyl)-5-(5-Bromo-7-Methoxy-Benzofuran-2-Yl)-3h-[1,3,4]Oxadiazole-2-Thiones (**2**) by treating with carbon disulphide in presence of potassium hydroxide solution and ethanol. All the synthesized compounds were in agreement with the assigned structure which was supported by spectral and analytical data. All the titled compounds synthesized were screened for antibacterial and antifungal activity and some have exhibited appreciable activity.

Graphical Abstract



Keywords: Benzofuran, Oxadiazole, Thione, Antibacterial, Antifungal.