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# Synthesis, Characterization and biological activity of 4-Aryl 3-Chloro N-Substituted 2-Azetidinones

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**Abstract :** In the present invention relates to Synthesis of new 2-Azetidinone derivatives from 2, 6-Dimethylbenzenamine. Condensation, amination and cyclocondensation reactions were involved. They are an important class of Hetero cyclic compounds that have a wide range of pharmaceutical and medicinal applications. The structures of synthesized compound -s were confirmed by using IR, <sup>1</sup>H NMR, and Mass spectroscopy. Further these synthesized derivatives were subjected to biological activity.

**Key Words :** 2, 6-Dimethylbenzenamine, Schiff bases, 2-Azetidinones and biological activity.

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