PR-20. MICROWAVE ASSISTED SYNTHESIS OF *N*-SUBSTITUTED MALEIMIDE DERIVATIVES AS EXOGENOUS ANTIOXIDANT AGENTS

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The present work was aimed to synthesize a series of *N*-substituted maleimide derivatives have been developed *via* acetic acid mediated microwave reaction pathway [1, 2], which was identified as the incomparable method for the synthesis of maleimide compounds. All the synthesized compounds were tested for their antioxidant activity by DPPH and H_2O_2 assay [3]. Methoxy and amino attached compounds were displayed higher antioxidant activity in two methods. The structure-activity relationship demonstrated that the compounds having electron releasing substituent generally showed beneficial activity than electron capture substitution cores. These compounds may be useful as an exogenous antioxidant.



References

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