

## عنوان مقاله:

Preparation and Characterization and Thermal Study of New Copolymers of Semicarbazide and Fatty Acids Derivatives with Malic Anhydride and Assess their Biological Activity

## محل انتشار:

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## نویسنده:

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## خلاصه مقاله:

In this study, new semicarbazide derivatives [E1-E5] were prepared by the reaction of semicarbazide with different fatty acids (olic, linolic, linolinic, recenolic and cinnamic acid) in DMF, then this compounds will polymerization with malic anhydride in H<sub>2</sub>O<sub>2</sub> as initiator to get [EP1-EP5]. The prepared compounds were characterized by physical properties, UV-Vis, FT-IR, <sup>1</sup>H-NMR, <sup>13</sup>C-NMR and TGA analysis. TLC checked the purity for these compounds. The antibacterial activity were studied against different kinds of bacteria, namely Staphylococcus aureus, Staphylococcus saprophytic and Proteus.

## کلمات کلیدی:

Semicarbazide, fatty acids, Malic anhydride copolymers, Thermal study of fatty acid polymer, essential fatty acid semicarbazide

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1509354>

