

عنوان مقاله:

Evaluation effect of purslane on rat liver necrosis using FTIR spectroscopy technique

محل انتشار:

نخستین همایش ملی توسعه در علوم و صنایع شیمیایی (سال: 1395)

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خلاصه مقاله:

FTIR spectroscopy is a technique to identify structural changes of macromolecules such as carbohydrates, protein, DNA and lipids. Study was undertaken to evaluate the effects of purslane on copper sulphate poisoning on liver structure changes. Thus, twenty eight wistar rats were randomly allocated to four treatment groups. Group I) Control, Group II) Copper sulphate (200mg/kg bodyweight was applied by gavage daily for four week, Group III) Purslane (gavage 400 mg/kg bodyweight daily for four weeks) and Group IV) Combined treatment of copper sulphate and purslane as described in Group II and III. At the end of the study, animals were sacrificed and the liver was removed for Fourier transform infrared spectroscopy (FTIR). We confirmed that purslane administration protected the carbohydrate structural damage that occurred in liver of copper treated rats

کلمات کلیدی:

Purslane, FTIR Spectra, Copper sulphate

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