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Isolation of ulceroprotectivec cucurbitane type triterpenoids from cucumis melo seeds

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Medicinal plants are the richest bio-resources of drugs in traditional medicinal systems, modern medicines, folk medicines, intermediate and chemicals entitled for synthetic drugs. Plants provide a source of inspiration for novel drug development as they contain a vast array of substances that treat chronic diseases. Cucumis melo seeds have been traditionally used for treating various health ailments. The main aim of our current study is to isolate Cucurbitane-type triterpenoids from Cucumis melo seed extract and conduct antiulcerogenic activity of the isolated compound. Phytochemical investigations of methanolic seed extract of Cucumis melo was carried out which showed the presence of various important phytoconstituents. The main active constituents of Cucumis melo have shown a number of potent pharmacological activities. The isolation of Cucurbitane-type triterpenoids was carried out by column chromatography using methanolic seed extract of Cucumis melo. Mobile phase hexane and hexane-ethyl acetate (98:2) was used to run the column. TLC profiling was done simultaneously in an appropriate solvent system (hexane: ethyl acetate, 97:3). Various fractions were collected. The fractions with similar Rf value were pooled together. Fractions giving single spot in the TLC were regarded as pure. The isolated compound showed positive result for Liebermann-buchard test from which we can conclude that the isolated compound might be triterpenoid. The structure of the isolated compound was determined by IR, ^{1}HNMR, ^{13}CNMR techniques. The spectral analysis of the isolated compound showed following results.