

عنوان مقاله:

Identification of Harmine, Harmalin Alkaloid in Espand Medicinal Plant Extract Peganum harmala L by liquid phase chromatography (HPLC)

محل انتشار:

کنگره گیاهان دارویی؛ مکانیزاسیون و فرآوری (سال: 1400)

تعداد صفحات اصل مقاله: 2

نویسندگان:

Bahareh Azimi Sarikhan Begloo - *Department of Biology, Payame Noor University (PNU), P.O. Box, ۱۹۳۹۵-۳۶۹۷, Tehran, Iran*

Sattar Tahmasebi Enferadi - *Department of Molecular Plant Biotechnology, Faculty of Agricultural Biotechnology, National Institute of Genetic Engineering and Biotechnology, Tehran, Iran*

Haniyeh Mahmoudinia - *Department of Biology, Payame Noor University (PNU), P.O. Box, ۱۹۳۹۵-۳۶۹۷, Tehran, Iran*

Zahra VaeziSooghanloo - *Department of Biology, Payame Noor University (PNU), P.O. Box, ۱۹۳۹۵-۳۶۹۷, Tehran, Iran*

Forouzandeh Mahjoubi - *Department of Molecular Plant Biotechnology, Faculty of Agricultural Biotechnology, National Institute of Genetic Engineering and Biotechnology, Tehran, Iran*

Enayat allah Yazdan Panah - *Department of Biology, Payame Noor University (PNU), P.O. Box, ۱۹۳۹۵-۳۶۹۷, Tehran, Iran*

خلاصه مقاله:

Peganum harmala L. has long been used for medicinal purposes due to the presence of the effective substance harmin harmalinIt has been used, among other things, to relieve pain and to treat high blood pressure, Parkinson's disease , as a messenger Stimulus is used. Recently, research on herbal medicines and chemical clarification in cancer treatment has increased has found. A combination of chemicals with conventional approaches to cancer treatment can promote cell death through inhibiting cell proliferation and invasion, sensitizing cancer cells and boosting the immune system improve the results.In this study, ۱۰ g of pecan seeds ground in ۳۰% (v / v) acetic acid solution and mixed for ۱۰ minutes were well stirred. And washed again with acetic acid. And petroleum ether and ethyl acetate were added at ۵۰ ml. Then it was brought to pH = ۸. Finally, chloroform was added to the above solution. The obtained alkaloids were collected in the chloroform phase after evaporation. (۲)The use of HPLC technique to identify the harmin substance and harmalins in Pecan seed extract for purification and its use as an effective substance for the expression of genes involved in HCT۱۱۶ cancer cells were studied. The results obtained from HPLC analysis to isolate the components P.hamrala extract was used and the results were compared with standard solutions of harmin and harmalin. The chromatograms confirmed the presence of harmin and harmalin as their residence time of ۸.۰۷ and ۵.۳۲ minutes, respectively, which was in accordance with the standard solution

کلمات کلیدی:

HPLC, Peganum harmala L., Purification, Harmine, Harmalin

