

ABSTRACT

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High-temperature liquid chromatography (HTLC) is one of the possibilities of development and further progress in the field of liquid chromatography that is ranked among the most used separation methods also in the pharmaceutical analysis. Also, HTLC belongs in the so-called „green chemistry“, which highlights performing the chemical practice in the most environment-friendly way. This thesis presents the HTLC issues in the form of literature search focused on the characterization of the fundamental features of HTLC and essential effect of the elevated temperature on the chromatographic processes given. It describes the most important advantages but also the limits of the HTLC method, mainly in its possible use in routine analyses. Finally, the thesis gives the overview of the selected results of several experimental studies, which have dealt with the use of HTLC in the analysis of some concrete drugs.

Key words

high-temperature liquid chromatography, drug analysis, green chemistry