

Abstract

One of the important challenge for scientists, how to prevent skin from wrinkling and the occurrence of pigmentation changes which caused by unusual disruption of connective tissue, the formation of free radicals and ultraviolet radiation. The current study aimed to investigate the phytoconstituents, antioxidant, sun protection factor (SPF) and antielastase effects of traditional plant *Alkanna tinctoria* (L.) roots bark four solvents fractions. Qualitative and quantitative phytoconstituents, antioxidant, sun protection factor and antielastase effects were assessed by using standard pharmaceutical and cosmeceuticals assays.