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Analysis of quality ethanolic extract of Khorasan Razavi propolis sample by gas chromatography-mass spectrometry (GC/MS)

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Abstract:

Propolis is a resinous hive product collected by honeybees from various plant sources. Propolis has various biological activities, namely anticancer, antioxidant, antiinflammatory, antibiotic, antifungal and antihepatotoxic. In recent years, propolis has gained popularity as a health drink, and is thought to improve human health and to prevent diseases such as inflammation, heart disease, diabetes and even cancer. The present study was designed to investigate the chemical composition of ethanolic extract of Khorasan Razavi province propolis sample by gas chromatography-mass spectrometry (GC/MS). 268 compounds were identified from which only the major components are shown here. Identified phenolic acids as chrysin, caffeic acid and cinnamic acid in propolis extract indicated that ethanolic extract of Khorasan Razavi propolis sample has activities antioxidant, antiinflammatory and antihepatotoxic.

Keywords: Propolis- Phenolic acids- Antiinflammatory- Antihepatotoxic

اثرات سطوح مختلف پروتئین و ترئونین بر عملکرد و تغییرات بافتی روده کوچک جوجه‌های گوشتی