



Study of cumin and fennel herbal medicine based on antioxidant compounds and their potential

Saba Baghi¹, Samin Nikakhtar¹, Amirmohammad Baghi²

¹Department of Pharmacy at Eastern Mediterranean University

²Department of Dentistry at Near East University, Nicosia, North Cyprus

Abstract

From time immemorial, the use of medicinal plants has been important in the medical and therapeutic industries. . Phytochemical compounds were identified and total phenols and flavonoids were measured for comparison between extracts. Methanol extract from cumin showed more free radical inhibition activity, decreased activity and potential inhibition of peroxidation compared to fennel. The content of phenolic and total flavonoids in cumin seeds was higher than fennel. Results suggested that free radical scavenging activity of cumin correlated well with polyphenolic concentration, enabling it to serve as a better natural antioxidative source. **KEYWORDS:** Seeds, egg yolk homogenate, free radicals, lipid per-oxidation, phenolics