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**PHYTOCHEMICAL SCREENING OF POLYHERBAL COMPOSITION BASED ON *Portulaca oleracea* AND IT'S EFFECT ON MACROPHAGE OXIDATIVE METABOLISM**

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[Abstract](#)

The aim of the work was to explore phytochemical characteristics of water extract from polyherbal composition based on *P. oleracea* and it's effect on oxidative metabolism of murine peritoneal macrophages. The qualitative phytochemical analysis was conducted by colorimetric method. Quantitative analysis of phenols was performed in the test with gallic acid as a standard. Murine peritoneal macrophages were isolated without previous sensitization. Leukotoxicity of the water extract from polyherbal composition leukotoxicity was evaluated in MTT test. Reactive oxygen species generation was assayed by the nitroblue tetrazolium reduction method. Phytochemical analysis revealed the presence of water-soluble and insoluble phenols, tannins, saponins, flavonoids, cardiac glycosides and coumarins in the studied plant mixture. The water extract from polyherbal composition used in a range of concentration 1–1000 µg/ml (lyophilisate in distilled H<sub>2</sub>O) didn't exhibit any toxic effects on murine peritoneal macrophages. Water extract from polyherbal composition caused statistically significant dose-dependent increase in oxidative metabolism of murine peritoneal suggest modulatory effect of studied water extract from polyherbal composition on innate immunity cells.

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