

ANTIOXIDANT AND RAT BOWEL CYTOPROTECTIVE EFFECTS OF AN HERBAL DERIVED PRODUCT BASED ON POLYSACCHARIDES AND FLAVONOLS COMPOUNDS

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Abstract

The aim of studies was to demonstrate potential benefits of an herbal derived product combining polysaccharides compounds from leaves of marshmallow and quercetin derivates from external brown peels (scales) of yellow onion on castor oil induced colitis model on rats. Histological evaluation indicated castor oil damaging potency at the level of intestinal epithelial cells, as well as the capacity of the plant derived product (500mg/kg body) to counteract oleum ricini histological modifications. MTS test made on 3T3 and HUVEC cells has proved the lack of toxicity, as well as antioxidant activity of the test product, together suggesting cytoprotective properties of this herbal derived product upon inflammatory bowel lesions.

Keywords: *Althaea officinalis* L., *Allium cepa* L., cytoprotective, *oleum ricini* rat bowel injuries.