New organic drug for spleen, Splenactive – a source of natural cytokines, regulators of immune homeostasis

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Abstract
The spectrum of the main cytokines and their quantitative content in preparations Splenactive and Prosplenactive which are freeze-dried aqueous extracts from the spleen of pigs or cattle have been studied. Organopreparations were prepared without (Prosplenactive) and with the addition of dihydroquercetin as an antioxidant preservative (Splenactive). Identification of cytokines in the preparations was performed using sets of monoclonal antibodies specific for the respective human cytokines by "sandwich" – variant solid phase enzyme immunoassay. It was found that the content of pro- and anti-inflammatory cytokines and interferons injectable solutions Splenactive and Prosplenactive exceed serum levels in the blood of healthy donors or correspond to them. Thus, as a result of studies, the spectrum of the main classes of cytokines and their concentration in preparations Splenactive and Prosplenactive have been defined.