

## Effect of structure and physico-chemical characteristics of veterinary medicines Vetameks and Melapol plus containing synthetic melatonin on their ability to prolonged action

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### Abstract

We revealed the influence of the structure and physicochemical properties of melatonin-based new veterinary medicinal products on their prolonged action. It has been shown that polymer matrix based on Ethyl cyanoacrylate having a molecular weight in the range 2000-25000, modulus of elasticity of 8000-20500 kgf/cm<sup>2</sup>, containing 5-10 mass % of plasticizer, and active substance up to 30 mass %, provides the prolonged action of melatonin-based new veterinary medicinal products within 90 days.