

Condensed Polyolefins from the Bark of Coniferous Trees as Medicamental Agents

Galina P. Grigoriuk

*Central Scientific Research & Design Institute of Wood Chemical Industry,
603603, GSP-703, Moskovskoye Shosse, 85, N.Novgorod, Russia; Fax: (8312) 41-36-90*

Under conditions of industrial technology of cattle breeding the important role in originating non-infective diseases, derating of the level of immunobiological reactivity and the natural resistance of the animal organism are of great importance.

Weak animals become an association source of conditionally pathogenic microorganisms, which repeatedly passivating, gain a high degree of virulence and pathogenicity.

That is why the development of agents enhancing the natural resistance is of primary importance.

In prophylactic and treatment of gastro-intestinal disturbances of animals in increasing immunobiological reactivity, the preparations featuring astringent, adsorptive, bactericidostatic agents are of vital importance.

These properties display the preparations isolated by extraction from the bark of coniferous trees that received a trade name ANTIDIOPRIN.

In chemical composition ANTIDIOPRIN is a complex compound, comprising condensed polyphenols (C₆-C₃-C₆)_n, where n = 3 - 6 structures, sugars of general formula C₆H₁₂O₃ and flabophenes of (C₆-C₃-C₆)_m structure, where m = 5 - 12.

The pharmacological effect of condensed polyphenols consists in retardation of peristalsis, anti-inflammatory action, while the sugars are the source of metabolic energy, forming active compounds with protein and amino acids.

Flabophenes feature P-vitamin activity, regulate permeability of capillaries and they are synergists of C-vitamin, as well as feature antioxidant properties.

The preparation has undergone clinical tests for treating animals with syndrome of diarrhoea (dyspepsia, coil-bacteriosis) and are characterised by 98% therapeutical effect. It is allowed for use according to the permission given by the Veterinary Department of Ministry of Agriculture and Food-Stuff of Russian Federation.