

THE STUDY OF MONOTERPENE GLYCOSIDES OF THE ROOT OF *PAEONIA LACTIFLORA PALL.*

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The actuality of this topic is due to the search for little-studied properties of the root of the *Paeonia lactiflora Pall.* plant against the backdrop of today's pandemics. Aim of the work – to investigate the monoterpene glycosides of the root of *Paeonia lactiflora Pall.* and determine their properties.

Paeonia lactiflora contains more than 15 biological active substances, including monoterpene glycosides: paeoniflorin (0.5–5.8%), albiflorin, benzoyl-paeoniflorin, galloylpaeoniflorin, oxypaeoniflorin, lactiflorin, paeoniflorigenone, oxybenzoylpaeoniflorin; phenolic acids; phytosterol; triterpenoid [1].

Monoterpene glycosides or iridoids it is a terpene glycoside in which the terpene moiety is a monoterpene, these compounds are widespread as plant metabolites.

Monoterpene glycosides isolated from the root of *Paeonia lactiflora* have bioactivity such as anti-inflammatory, anti-oxidative, anti-coagulative, sedative, analgesic, anti-allergic and anti-hyperglycemic.

For example, paeoniflorin is a major active component of *Paeonia lactiflora*, that has been widely used to treat inflammatory conditions according to the traditional Chinese medical system; commonly active as antihyperglycemic and neuroprotective effect [2]. Paeoniflorin and benzoylpaeoniflorin were found to be the major common active constituents and they would collectively contribute to improving blood circulation. In-vitro studies of the substances paeoniflorin and benzoylpaeoniflorin hint to an anticoagulant and antiplatelet activity. Albiflorin has an analgesic, sedative, anticonvulsant effect, the influence of the immune system and the protective effect of the liver [3].

The article analyzes scientific works and international experience in studying the properties of monoterpene glycosides from the *Paeonia lactiflora* root.

References:

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