

## STUDY OF THE CHEMICAL COMPOSITION OF BITTER PLANTS (*Artemisia absinthium* L).

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**Abstract:** Phenolcarboxylic acids (not less than 0.5% by chlorogenic acid). Coumarins (1.2%): scopoletin, umbelliferone, emperorin, esculetin, xanthotoxol, coumarin. Flavonoids (not less than 0.5% of rutin): quercetin, kaempferol, isorhamnetin, apigenin. Carbohydrates: polysaccharides, inulin, starch.

**Key words:** scopoletin, umbelliferone, emperorin, esculetin, xanthotoxol, polysaccharides, inulin, starch.

*Botanical and morphological-anatomical description of wormwood.* Wormwood (*Artemisia absinthium* L.) is a perennial herbaceous plant from the rhizome of which develops several stems 2 meters or more in size.

The arrangement of the leaves is alternate. Stem leaves: petiolate, rounded triangular, twice or thrice pinnatisected; apical: sessile, entire or tripartite, reticulate venation, entire margin, dense pubescence on both sides of the leaf, grayish green. Stem: ribbed, short-branched, with dense grayish-green pubescence.

Flowers: inflorescence - spherical baskets forming a paniculate inflorescence; involucre leaflets are oblong-oval, outer ones are almost the same length as inner ones, concave along the back, broadly membranous along the margin.

Chemical composition. Wormwood has a strong pleasant spicy smell. Wormwood herb contains an essential oil (0.07-0.2%), in its composition: limonene, terpinolene, fenchon, aromadendren, tayyl alcohol, thujone (alpha and betta), alpha-pinene, beta-pinene, camphor, alpha-copaene, alpha-guayene, beta-caryophyllene, borneol, cadinene, vulgarol, tricyclene, camphene, alpha-terpinene, artemismaketone, artemisian alcohol, isoborneol. Triterpenoids: alpha-amirin, fennol. Steroids: beta-sitosterol, stigmasterol.

Amino acids: arginine, histidine, asparagine, proline, lysine, alanine, valine, glycine, isoleucine, aspartic acid, methionine. Phenolcarboxylic acids (not less than 0.5% in terms of chlorogenic acid).

Coumarins (1.2%): scopoletin, umbelliferon, emperorin, esculetin, xanthotoxol, coumarin. Flavonoids (not less than 0.5% in terms of rutin): quercetin, kaempferol, isorhamnetin, apigenin. Carbohydrates: polysaccharides, inulin, starch.

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