

QUANTATIVE FINDING ORGANIC ACIDES IN SERIES OF FRUITS VIBURNI OPULUS

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Introduction: *Viburnum opulus* (L). representative of family *Caprifoliaceae* – is a common shrub of the native flora. The official species of raw is the bark Which shows a pronounced hemostatic effect. Fruits of Viburni have a wide range of applications in folk and official medicine. Available in fruits organic acids are showing tonic, antiseptic, disintoxication and antioxidant properties, regulating the acidity. Also involved in the processes of digestion, renewal the skin and smoothing of wrinkles, regulate glucose levels in blood. The excellent composition of fruits makes it expedient to use viburni tea during the following diseases: tonsillitis, pneumonia, bronchitis, including those caused by nicotine addiction, chronic cough. Also the most common types of *Viburni*: *Viburnum glabratum* (Kunth), *Viburnum molle* (MICHX.), *Viburnum utile* (HEMSL). *Viburnum dilatatum* (THUNB.), *Viburnum alnifolium* (MARSHALL).

Aim. Quantative finding organic acids in series of fruits *Viburnum opulus*.

Materials and Methods: We have researched 7 series of fruits, that harvested during 2016 in Kharkiv, Lugansk, Poltava, Lviv, Kyiv, Kirovograd and Zhitomir regions. The content of sum organic acids, counting on malic acid, were defined by titrimetric method.

Results: We had been founded the content of sum of organic acids in 7 series of fruits *Viburnum opulus*, which varied nearly doubled, depending on a series of raw and was within 1,41%-2,95% in terms of absolutely dry raw materials. Defined the content of this group of compounds in each series: the harvesting in Kharkiv region $2,14 \pm 0,03$ %, Lugansk region $1,41 \pm 0,01$ %, Poltava region $1,86 \pm 0,02$ %, Kyiv region $1,68 \pm 0,01$ %, Kirovograd region $1,94 \pm 0,01$ %, Zhitomir region $2,47 \pm 0,02$ %, Lviv region $2,95 \pm 0,01$ %. As a result of research we have identified the lower bound of quantative finding organic acids in series of fruits *Viburnum opulus*, it was not lower 1,4%.

Conclusions: We had conducted quantative finding organic acids in 7 series of fruits *Viburnum opulus*. Found that the lower bound of content this group of compounds was $1,41 \pm 0,01$ % (Lugansk region) and the higher $2,95 \pm 0,01$ % (Lviv region).