

Determination of antioxidant activity of fruit and berries

© Natal'ya G. Romanova,^{1*} Valeriy N. Zelenkov,^{2*} and Anatoliy A. Lapin^{3*+}

¹ K.A. Timiryazev Russian state agrarian university. Timiryazevskaya St., 49. Moscow, 127550. Russia.

Phone: +7 (495) 976-16-16. E-mail: Romanovasng@hotmail.ru

² Department of physical-chemical biology and innovations. Russian academy of natural sciences.

Moscow. Russia. E-mail: zelenkov@mail.cnt.ru

³ Department of Water bioresources and aquaculture. Kazan state power engineering university.

Krasnoselskaya St., 51. Kazan, 420066. Tatarstan Republic. Russia.

Phone: +7 (843) 519-42-67. E-mail: lapin@iopc.ru

*Supervising author; +Corresponding author

Keywords: medicinal plants, antioxidant activity, hawthorn, mountain ash, combs of grapes, green and black tea, functional food products.

Abstract

There has recently been great interest in the determination of antioxidant activity of foods and beverages, pharmaceuticals.

Antioxidants of medicinal plants are: vitamins C, E, A, D, K; trace elements zinc, selenium, biologically active compounds isolated from plants (chokeberry, bilberry, ginkgo biloba, wild rose, currant, hawthorn, mountain ash, red grapes (vine seeds combs), green tea, etc.), such as bioflavonoids, anthocyanins, carotenoids, etc. In this regard, evaluation of the antioxidant activity of various biological objects is an urgent task.

The purpose of this study was to determine the antioxidant activity of fruits of hawthorn and rowan, combs grapes, green and black tea.