

The antioxidant status of perspective grades and hybrids topinambur

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Keywords: leaves and tubers of topinambur, aqueous extracts, juices, total antioxidant activity, electrogenerated halogen-radicals of bromium, chlorine and iodine.

Abstract

The total antioxidant activity of fresh leaves and tubers' juice water extracts of various samples of topinambur has been investigated. The extracts of leaves of the grades Nahodka and Skorospelka have shown higher values of antioxidant activity on routine and ascorbic acid both in analysis with bromine and with iodine in comparison with a control grade Novost VIRa-1. Among the samples of juice of topinambur's tubers, the maximum activity was shown by the hybrid Novost VIRa-2. During the linear and polynomial dependence analysis, equations of numerical values of total antioxidant activity and on sizes of reliability of approximation, presence of low-activity antioxidants was revealed in the extracts of leaves of a hybrid Novost VIRa, which selectively react only with chlorine radicals.