

Abstract

Drug *Sambuci nigrae flos* – *Sambuci nigrae flos* is obtained from the wild plants. The drug is primarily used to help reduce the symptoms of colds and flu. Elder flower provides antioxidant, anti-inflammatory, anticancer and diuretic effects. The main substances are flavonoids and hydroxycinnamic acid. Elderflowers from bred cultivars are not used to obtain drug so far. The aim of this work was to determine antioxidant activity of extracts of elderflower cultivars. Cultivars 'Albida', 'Allesö', 'Aurea', 'Bohatka', 'Dana', 'Haschberg', 'Heidegg 13', 'Juicy', 'Korsør', 'Mammut', 'Pregarten', 'Riese aus Voßloch', 'Sambo', 'Sambu', 'Samdal', 'Sampo', 'Samyl', 'Tulbing' and 'Weinhenstephan' were analyzed. Antioxidant activity was measured spectrophotometrically using DPPH ((2,2-diphenyl-1-picrylhydrazyl) radical method. Results of antioxidant activity were expressed as IC₅₀ (concentration required for 50% reduction of the DPPH radical). The measured values are in the range 0.0419 - 0.0772 mg/ml. Cultivars 'Heidegg 13', 'Albida', 'Tulbing' showed the highest antioxidant activity, whereas the lowest activity was found in 'Pregarten', 'Korsør' and 'Allesö' cultivars.