

**Title** Study of anthocyanins in fruit of different *Vaccinium* genotypes  
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#### **Abstract**

The content of four different anthocyanins (cyanidin-3-glucoside, cyanidin-3-galactoside, malvidin-3-glucoside and malvidin-3-galactoside) and the total anthocyanin content in bog bilberry, lingonberry and lowbush blueberry (Chignecto, CA-206, and NB-3) were determined by RP-HPLC. The results showed that the total content of anthocyanins in fruits of Chignecto, CA-206, NB-3, bog bilberry, and lingonberry were 725 mg, 357 mg, 350 mg, 343 mg, and 147 mg per hundred gram fresh fruit respectively. Moreover, the type and content of anthocyanins were different among *Vaccinium* spp. Cyanidin-3-galactoside was a common anthocyanin, but cyanidin-3-glucoside was not found in bog bilberry and lingonberry. Cyanidin-3-galactoside was the only anthocyanin detected in the fruit of lingonberry. It is concluded that *Vaccinium* species and genotypes are diverse in the type and content of anthocyanins in their fruits.