Introduction

Feketić is the small village in the middle of Bačka region. Since the beginning of 20th century, in this and surrounding villages people start to cultivate sour cherry which today is considered as autochthonous cultivar. Department for new cultivar recognition within Ministry of agriculture of Serbia informed farmers’ association “Gazdaker” from Feketić that Feketićka sour cherry is officially on cultivar list under name “Prima”. Fruit is medium elliptic shape with average weight of 5,3g with dark red skin, medium red flash and red juice color. This cultivar is resistant or tolerant to main fungal diseases, and doesn’t require high number chemical treatments.

Material and methods

A total of 12 accessions were collected from two different locations. All accessions were grafted on Prunus mahaleb as a rootstock with spacing of 4 m within row and 4 m between rows, cultivated without chemical protection and with minimal pruning. Within collected material, accession Pc_1105 is official used during new cultivar recognition process. Very late ripening time potential mutation is also sampled. Pomological characterization was done according to international UPOV descriptor. Pomological analysis was done at Faculty of Agriculture in Novi Sad.

Results and discussion

The highest fruit weight (6,47g) was observed in accession Pc_1105 and the lowest in accession Pc_1112 (4,39g). Stone weight was smallest within accession Pc_1107 (0,23g) and the largest in Pc_1109 (0,40g). Fruit ratio, the edible part of the fruit (mesocarp and skin) in the total fruit weight, ranged from 92,38% (Pc_1112) to 95,25% (Pc_1107). Stalk length is important characteristics of sour cherry, because hand picking is more easily performed when fruit has longer stalk. In this study, accessions stalk length varied from 42mm (Pc_1101) to 56,89mm (Pc_1111). Stalk at fully mature fruit is thin and easily separated from fruit (Table 1).

The lowest average soluble solids content exhibited genotype Pc_1107 (10,38%) and the highest Pc_1106 (15,22%). Fruit flesh has firm consistency with red color of juice and excellent taste (Table 2).

Conclusions

Examination of important pomological characteristics of Feketićka” sour cherry genotypes suggest following conclusions:

- The highest average fruit weight has accessions Pc_1105 (6,47g)
- The highest average soluble solids content has accessions Pc_1106 (15,22%)

Prima is excellent large-fruited sour-cherry cultivar of colored juice. Large number of trees in surrounded villages of Feketić is good material for further genetic gain from selection.