

Streszczenie w języku angielskim

The influence of the cultivation method on shaping the quality of the Kashubian strawberry

Kashubian strawberries, or kaszëbskô malëna, are not still not a well-known regional and traditional product in Poland. From 3 January 2008, they are on the list of traditional and regional products of the Pomeranian Voivodeship. They are a unique product with recognized nutritional and taste values. Kashubian strawberries are the first in the Pomeranian Voivodeship and thirteenth Polish product, which has been entered into the European system of names and indications as a PGI – protected geographical indication (27 November 2009).

The main aim of the study was to assess the influence of the cultivation method on the quality characteristics of Kashubian strawberries. On the other hand, the utilitarian goal of the study was to determine the quality of the Kashubian strawberry as a recognized traditional product, as no comprehensive research on this has been published so far.

The work has been divided into four chapters. The first part describes this product, presents the history of Kashubian strawberries, its varieties, cultivation rules, and certification. The chemical composition, selected ingredients determining the nutritional value of strawberries, health properties and application of strawberries were discussed, as well as factors determining the quality of strawberries were described. The second chapter formulates the aim of the work, research hypotheses and presents the scope of the work. The third chapter discusses the research material and the methodology of the research. The agrotechnical treatments carried out on plantations and the meteorological conditions in the years of cultivation were described in detail. The last chapter presents the obtained research results and their discussion. The work ends with a summary of the research results and conclusions.

The research material was strawberries of three fruit varieties: Senga Sengana, Elsanta, and Honeyoe. The research was conducted in 2016-2017.

The following studies were carried out, including determination of CIE L * a * b color, acidity, dry matter content, anthocyanins, vitamin C, total polyphenols, DPPH free radical scavenging ability, total extract, sugar-free extract, simple and complex sugars, organic acids.

Statistically significant correlations of the influence of variety, method and year of cultivation, locality and field of cultivation, harvest period and time of plantation use on the tested quality parameters were demonstrated.

The obtained research results made it possible to verify the impact of cultivation on the quality characteristics of Kashubian strawberries, and above all, to promote them as a regional and traditional product.

Key words: Kashubian strawberries, regional product, nutritional value, quality of Kashubian strawberries

09.12.2021 Dżeniszka Aliya