Quality characteristics of rice cultivars suitable for rice beer

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Abstract

The purpose of this study was to evaluate the effects of rice cultivars (Hangaru, Seolgaeng, Dasan-1 and Anda) on quality characteristics of rice beer. As for moisture content, Hangaru and Seolgaeng that are soft rice were higher than Dasan-1 and Anda as 14.48 and 14.62%, respectively. Dasan-1 and Anda showed higher protein content as compared to other varieties. As for amylose content, Hangaru turned out to be lower than other varieties as 17.71%, whereas reducing sugar content of Hangaru and Seolgaeng was higher than Dasan-1 and Anda. Results of hardness showed that Hangaru and Seolgaeng were measured lower than Dasan-1 and Anda. As a result of measuring alcohol content, pH and color of beer brewed by rice cultivars, no significant difference by cultivars was found, but measurement result of bitterness showed that beer brewed with Hangaru and Seolgaeng showed lower bitterness comparing to the beer brewed with Dasan-1 and Anda. The results of this study suggest that Hangaru and Seolgaeng are considered cultivars suitable for brewing quality of rice beer.

Keywords: rice, beer, cultivar, quality

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