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[\[PDF \(762K\)\]](#) [\[References\]](#)**Quantitative Identification of Rice Cultivars by Real-Time PCR**[Tomoya OKUNISHI^{1\)}](#), [Sumiko NAKAMURA^{1\)}](#) and [Ken'ichi OHTSUBO^{1\)}](#)*1) National Food Research Institute*

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Application of a real-time PCR system for the detection of blending and the quantification of the blending ratio of rice was investigated. Quantitative measurement by real-time PCR was performed using two types of primer sets ; one was an improved rice cultivar identification kit, while the other was newly developed for the determination of total amount of rice DNA. Calculation formulae for blending ratios were developed based on standard curves of both primer sets. These formulae were verified using DNA solutions extracted from the Koshihikari containing 5% or 25% of another rice sample. Calibration errors were less than 30% of the expected values.

Keywords: [rice](#), [Oryza sativa](#), [real-time PCR](#), [quantification of ratio](#), [Koshihikari](#)[\[PDF \(762K\)\]](#) [\[References\]](#)Download Meta of Article[\[Help\]](#)[RIS](#)[BibTeX](#)

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