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Czech J. Food Sci.

**Hodek J., Ovesná J.,
Kučera L.:**

Interferences of PCR effectivity: importance for quantitative analyse

Czech J. Food Sci., 27 (2009): 42-49

Importance of the Polymerase chain reaction (PCR) have already crossed the border of mere target DNA sequence present or absence analysis. For number analyses e.g. Genetically Modified Organisms (GMOs) or gene expression assesment the DNA quantification is demanded. Real-time (or quantitative) PCR is the most used tool for nucleic acids quantification. PCR efficiency has relevant importance on DNA quantification – it should be almost same for each PCR and its value should varied between 90– 100%. There are a lot of PCR enhancers and inhibitors well known. We described impact of used DNA solvent and used laboratory plastic on real-time PCR efficiency.

Keywords:

real-time PCR; DNA quantification; PCR

efficiency; GMO analysis

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