Editorial Board

For Authors

- Authors Declaration
- Instruction to Authors
- Guide for Authors
- Copyright Statement
- Submission

For Reviewers

- Guide for Reviewers
- Reviewers Login

Subscription

Czech J. Food Sci.

Bunešová V., Vlková E., Rada V., Hovorková

P., Rockova S, Kmet V.:

Direct identification of bifidobacteria from probiotic supplements

Czech J. Food Sci., 32 (2014): 132-136

The DNA of 14 probiotic supplements was isolated directly from various products without previous cultivation. The bifidobacteria composition declared by the manufacturer was determined by species-specific PCR. Such species found were in accordance with those listed on the products. This approach can be performed in less than 5 h and is applicable to other genera of probiotic bacteria. Bifidobacteria were also detected by culture-dependent analysis and MALDI-TOF MS. These methods drew the same results; however, they are more expensive and time consuming. So, we propose direct identification of bifidobacteria for routine quality control inspections of species composition in probiotic supplements.

Keywords:

Bifidobacterium; species-specific identification

[fulltext]