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Czech J. Food Sci.

**Pavlović H., Hardi J.,
Slačanac V., Halt M.,**

Kocevski D.

**Inhibitory effect of
goat and cow milk
fermented by
*Bifidobacterium
longum* on *Serratia
marcescens* and
*Campylobacter jejuni***

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This study was performed to determine the influence of fermented goat and cow milk produced by the use of *Bifidobacterium longum* Bb-46 on pathogenic *Serratia marcescens* and *Campylobacter jejuni* strains. The correlation between the inhibitory effect and some fermentation parameters (the number of viable probiotic cells and pH of fermented milk) was also determined. *Bifidobacterium longum* counts and pH values were also measured in milk samples during fermentation. The results showed that the inhibitory effect of *Bifidobacterium longum* Bb-46 fermented

goat milk on *Serratia marcescens* increased with the fermentation time. The highest inhibitory effect of fermented cow milk occurred in the middle course of fermentation. Statistically significant correlation between the inhibition degree of *Serratia marcescens* growth and pH values of fermented goat milk was noted as opposed to the correlation between the inhibition degree of *Serratia marcescens* growth and pH values of fermented cow milk which was not statistically significant. All samples of goat and cow fermented milk exhibited inhibitory effects on the growth of *Campylobacter jejuni*.

Keywords:

Bifidobacterium longum; *Campylobacter jejuni*; fermented goat and cow milk; inhibitory effect; *Serratia marcescens*

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