



# Agricultural Journals

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# **Czech J. Food Sci.**

**Karagözlü N.,  
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## Survival characteristics of *E. coli* O157:H7, *S. typhimurium* and *S. aureus* during kefir fermentation

Czech J. Food Sci., 25 (2007): 202-207

In this research, the growth and survival of *E. coli* O157:H7, *Salmonella typhimurium* and *Staphylococcus aureus* were investigated during kefir fermentation. Two different levels of inoculation of the strains were conducted the levels of  $10^2$  CFU/ml (EC-1, SA-1 and S-1) and  $10^3$  CFU/ml (EC-2, SA-2 and S-2). At 0, 2, 6, 12, and 24 hours of kefir fermentation at  $23 \pm 1^\circ$  C, samples were taken and the counts of *E. coli* O157:H7, *S. typhimurium*, and *S. aureus* were determined. EC-1 grew from  $2.29 \pm 0.02$  log CFU/ml to  $4.13 \pm 0.18$  log CFU/ml whereas EC-2 grew from  $3.22 \pm 0.04$  log CFU/ml to  $6.78 \pm 0.99$  log CFU/ml. Both S-1 and S-2 viable

populations grew during the fermentation period, where sample S-1 grew from  $2.37 \pm 0.20$  log CFU/ml to  $4.64 \pm 0.67$  log CFU/ml and sample S-2 grew from  $3.52 \pm 0.07$  log CFU/ml to  $5.60 \pm 0.10$  log CFU/ml. SA-2 strains grew from 3.06 log