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Cemen with different garlic levels (0, 7.5, 10.0, 15.0, 20.0 and 25%) were prepared. Each batch

of Cemen was contaminated with *E. coli* 0157:H7 (10^7 cfu g^{-1}) and stored at $4^{\circ}C$ for 60 days and $20^{\circ}C$ for 60 days in sterile glass jars. *E. coli* 0157:H7 counts and pH were determined at various stages of storage. It was determined that both garlic levels and storage temperatures had significant effect on *E. coli* 0157:H7 count. *E. coli* 0157:H7 in Cemen that was stored at $4^{\circ}C$ were slowly inhibited than that stored at $20^{\circ}C$. During storage at $4^{\circ}C$, *E. coli* 0157:H7 count dropped to below detectable level (< 100 cfu g^{-1}) at 30 days in Cemen containing 25% garlic while at 45th days in Cemens containing 10, 15 and 20% garlic. At $20^{\circ}C$, it dropped below detectable level (< 100 cfu g^{-1}) on the 10th days in Cemens containing 10, 15, 20 and 25% garlic. Investigating with immunomagnetic seperation (IMS), it was determined that the samples with

below detectable level (< 100 cfu g^{-1}), contained *E. coli* O157:H7.

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