Occurrence of Cronobacter species in Kareish and Domiati cheeses

Nagah M. Saad, Wallaa F. Amin

Abstract:

A total of 100 samples of Domiati and Kareish cheese were randomly collected and examined for the detection of Cronobacter species. Detection was performed using Cronobacter Screening Broth (CSB), Chromogenic Cronobacter Isolation Agar (mDFI) followed by biochemical testing. Cronobacter species were isolated from 8% of total samples. Cronobacter sakazakii was isolated from both Kareish and Domiati cheeses, while, Cronobacter malonicicus and Cronobacter turicensis were isolated only from Kareish cheese. The identified isolates of Cronobacter sakazakii were further tested by real time PCR. The results indicate that Kareish and Domiati cheeses represent risk for humans and further attention should be paid for manufacturing and handling of such cheeses.

Keywords:

Cronobacter species, Chromogenic Cronobacter Isolation Agar, Cronobacter sakazakii, cheese

Published In:

Assiut Veterinary Medical Journal, (142)60, 69-74