



KEY WORDS *(at least 5 words)*

- ✓ *C. difficile*
- ✓ kefir
- ✓ nisin
- ✓ pasteurized milk
- ✓ yoghurt

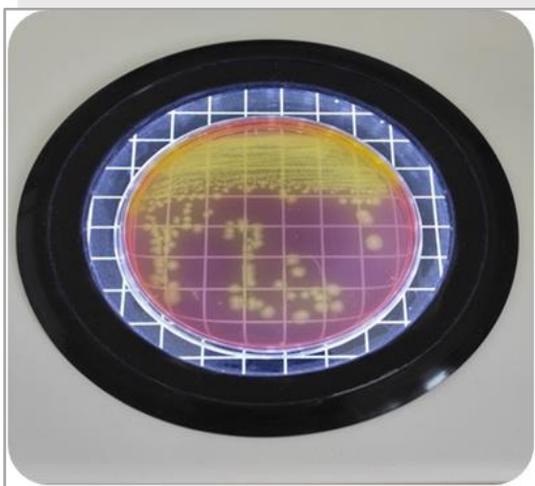
CONTACT

E-MAIL:
ayseguldal89@hotmail.com

THESIS SUPERVISOR

TELEPHONE:

E-MAIL:
rcibik@uludag.edu.tr



Behavior of *Clostridioides difficile* in Pasteurized Milk, Yoghurt and Kefir and Influence of Nisin

AYŞE GÜL DAL

0000-0002-0607-2182

BURSA ULUDAĞ UNIVERSITY
GRADUATE SCHOOL OF HEALTH SCIENCES
FOOD HYGIENE AND TECHNOLOGY DEPARTMENT
PHD PROGRAM

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SUPERVISOR

PROF. DR. Recep ÇIBİK
0000-0003-1687-0062
BURSA ULUDAĞ UNIVERSITY
GRADUATE SCHOOL OF HEALTH SCIENCES
FOOD HYGIENE AND TECHNOLOGY
DEPARTMENT
BURSA – TÜRKİYE



THESIS ABSTRACT

Clostridium difficile, a nosocomial pathogen with multidrug resistance, causes difficult to treat infections. In our study, the behavior of the agent in pasteurised milk, yoghurt and kefir procuded from milk experimentally inoculated with spores of the agent was examined by classical cultural method. In addition, the inhibition effect of nisin (7.5-12.5-25-50 ppm) on the spores of the agent in pasteurised milk was investigated. In our study, it was found that there were losses of more than 1 log cfu/ml in the recovery of the agent from milk and products, but the spores of the agent were resistant to the heat treatment and production processes applied in all products studied and maintained their viability during storage. It was found that the doses permitted by the legislation could not inhibit the spores of the agent in the nisin added groups; significant reduction was obtained only at doses of 25 pp m and above.

APPLICATION AREAS OF THE THESIS RESULTS

ACADEMIC ACTIVITIES

1. Dal A.G., Terzi F., Dal F.N., Pehlivan Ş., Türlek Ş.Ö., Kaya S., Çibik R. (2023). Retrospective Study On Cystic Echinococcosis in Livestock in Northern Türkiye. Journal MVZ Cordoba, 28(2), e3086. <https://doi.org/10.21897/rmvz.3086>