

# Assessment of Microbiological Quality of Raw Milk Produced at Tizi Ouzou Area (Algeria)

Auteurs

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Description:

Background:

The microbiological quality of raw milk is relatively a new subject that interest more actors of milk production in Algeria. Until now, the raw milk collected presented a high rate of microbial contamination, prejudicial for human consumption and dairy processing.

Objective:

The aim of this study is to assess the hygienic and sanitary quality of raw milk produced throughout three segments where milk is handled in Tizi Ouzou area (Algeria).

Methodology:

For this, 174 samples of raw milk were collected throughout farms, collectors and local markets and submitted for microbiological analysis.

Results:

The results of this study showed that microbial contamination of raw milk increase along the dairy chain. The mean log 10 of TBC at farm level was  $6.73 \pm 0.25$  log 10 CFU mL<sup>-1</sup>. This value increase to reach a load of  $6.81 \pm 0.19$  and  $7.2 \pm 1.05$  log 10 CFU mL<sup>-1</sup> at collection centers and market points, respectively. In addition, cases of contamination by *S. aureus* and antibiotic residues were observed.

Conclusion:

This study suggest that improving of microbial quality of raw milk requires the establishment a quality policy with the training of farmers on good hygienic practices.

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Mots Clés:

raw milk , microbiological quality, microbial contamination , Microbiological analysis