

Contribution to the Study of the Microbiological Quality of Chawarma Sold in Biskra

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Abstract : In order to study the microbiological quality of chawarma sold in Biskra, a sampling through some fastfoods of the city was done, the parameters studied are highlighted according to the criteria required by the country's trade management. Microbiological analyzes revealed different levels of contamination by microorganisms. The 10 samples were of an overall view of unsatisfactory quality, and according to the standards, no sample was satisfactory. The range of total aerobic mesophilic flora found is between 10⁵ and 1.2 × 10⁷ CFU / g, that of fecal coliforms is 10⁴ to 2.4 × 10⁵ CFU / g. The suspected pathogenic staphylococci were between 3.10³ and 2.7.10⁶ CFU / g. Salmonellae were absent in all samples, whereas sulphite-reducing anaerobes were present in a single sample. The rate of *E. cloacae* was between 10³ and 6.10⁴ CFU / g. As for fungi and safe mice, their rate was 10³ to 10⁷ CFU / g. The study of the sensitivity of antibiotics showed multi-resistance to all the antibiotics tested, although there is a sensitivity towards others. All strains of *Staphylococcus aureus* tested demonstrated resistance against erythromycin, 30% against streptomycin, and 10% against tetracycline. While the strains of *E. cloacae* were resistant in all strains to amoxicillin, ceftazidime, cefotaxime, and erythromycin, while they were sensitive to fosfomycin, sulfamethoxazole trimethoprine, ciprofloxacin, and tetracycline. While against chlorophenicol and ofloxacin, the sensitivity was dominant, although there was intermediate resistance. In this study demonstrates that foodborne illnesses remain a problem that arises in addition to the increasingly observed bacterial resistance and that, after all, healthy eating is a right.

Keywords : chawarma, microbiological quality, pathogens., street food

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