EVALUATION OF HYGIENIC-SANITARY AND MICROBIOLOGICAL CONDITIONS OF BEEF SOLD IN BUTCHER SHOPS OF PATOS DE MINAS, MG, BRAZIL

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It is important that the commercial establishment follow with hygienic-sanitary control standards offering the consumer a meat of microbiological quality without undesirable microorganisms. Thus, the objective of the present study was evaluated in hygienicsanitary and microbiological quality of samples of ground beef sold in butcher shops in Patos de Minas, MG. Through the application of a checklist were observed the conditions of equipment and utensils used and the conduct of handlers. In methodology, quantification of total aerobic mesophilic bacteria, psychrotrophic, coagulase-positive Staphylococcus, total and fecal coliforms were performed for microbiological analysis. The analyzes of the hygienic-sanitary conditions of the butcher shops showed that only 3 of the 14 items were approved as ideals revealing the poor conditions of the establishments and the unpreparedness of the manipulators. All the analyzed samples presented quantities greater than 0.3x10⁵CFU/g of total aerobic mesophilic bacteria and psychrotrophic. All samples had total coliforms, and in 50% were identified thermotolerant coliforms higher than 10 MPN/g, therefore classified as unfit for consumption. None of the analyzed samples had coagulase-positive Staphylococcus. These results together demonstrate that poor storage and handling of ground beef can contribute to contamination with microorganisms that pose a risk to the consumer.

Keywords: foodborne infections and/or intoxications; ground beef; hygienic-sanitary conditions; microorganisms indicators of food contamination.

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