

MPN-PCR enumeration of Campylobacter spp. in raw chicken meats and by-products.

Abstract

The goal of this study is to enumerate Campylobacter in chicken meats and by-products. In the current investigation, results showed that raw chicken meats and chicken by-products were contaminated with Campylobacter ranging from <3 to $4600 \text{ MPN} \cdot \text{g}^{-1}$. Campylobacter jejuni showed a higher number compared to Campylobacter coli in the chicken samples. The current study showed that the percentage of chicken livers and gizzards harbored a higher number of Campylobacter (10^3 – $10^4 \text{ MPN} \cdot \text{g}^{-1}$) than other chicken parts at 33.3% and 9.2%, respectively. The different concentrations of Campylobacter between chicken meats and chicken byproducts reflect the differences in the contamination level. The data on Campylobacter concentration in chicken meats and by-products will be useful in risk analysis.

Keyword: MPN PCR; Campylobacter; Chicken