



## Isolation and antimicrobial resistant pattern of *Campylobacter* species isolated from food samples

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**Abstract :** The study determines the isolation and antimicrobial resistant pattern of *Campylobacter* species isolated from food samples. *Campylobacter* is a gram negative, comma shaped bacterium which can be isolated from chicken, vegetables and eggs. In our research work, *Campylobacter* species was isolated from food sample on Karmali Agar Media and *Campylobacter* CVA media. Under the microscope, the isolated organism was seen as gram negative and comma shaped organism. Different biochemical tests including Sodium Hippurate Test, TSIA test, Nitrate Reduction Test, Catalase test were performed. The species isolated from chicken may be

*Campylobacter jejuni*, species isolated from vegetable may be *Campylobacter coli*, and species isolated from egg may be *Campylobacter mucosalis*. Drug susceptibility test was done. Disc diffusion method was performed and it was observed that *Campylobacter* was resistant to Nalidixic acid whereas susceptible to Ampicillin.

**Keywords:** Drug susceptibility test, Nalidixic acid, Ampicillin, *Campylobacter* species.

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### Introduction :

*Campylobacter* is a food borne bacterium which affects children mainly in developing countries and adults of young age in industrialized areas. *Campylobacter* infection causes fever, arthralgia, myalgia in humans and cause of traveler's diarrhea. This pathogen is found in children of young age usually less than 12 years of age with dysentery. *Campylobacter* species can be isolated from different food samples.

Source of *Campylobacter* species in human may be from consumption of foods of other animal origins or drinking contaminated water or cross contaminated foods. Studies in Thailand showed that *Campylobacter* species was prevalent in over