

The First Isolation of *Arcobacter Butzleri* From Caspian Sea's Water

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Background & Objectives: The major purpose of this study was isolation, identification and characterization of *Arcobacter* spp. from Caspian Sea's water in north of Iran.

Methods: Sampling from the water was conducted within 4 seasons. *Arcobacter* spp. was isolated using standard Methods then identified by Phenotyping tests. Finally, the identification of strain was verified by PCR Methods.

Results: After conducting of the Phenotyping Methods and their authentication with molecular technique, fourteen strains of *Arcobacter butzleri* were identified. With regard to the obtained results, prevalence of this bacterium in the coastal waters of the Caspian Sea's was evaluated as 5.32 percent.

Conclusion: The result obtained from this study is, in fact, regarded as the first report from the isolation of *Arcobacter butzleri* from Caspian Sea. Knowledge of the state of the entry and time span of the survival of the *Arcobacter* in the water environments to control the water quality and prevention from the disease is of importance.

Keywords: *Arcobacter butzleri*; Isolation; Caspian Sea; Water Sample

