

عنوان مقاله:

Isolation of *Aeromonas sobria* from an endemic fish, *Phoxinellus pstrossii*

محل انتشار:

اولین کنگره بین المللی مدیریت بهداشتی و بیماریهای آبزیان (سال: 1387)

تعداد صفحات اصل مقاله: 1

نویسندگان:

Maid Rifatbegovic - *Department of Microbiology and Infective Diseases*

Besirovic Hajrudin - *Department of Pathology*

Almedina Zuko - *Fisheries Center; Veterinary Faculty Sarajevo, Bosnia and Herzegovina*

Maksimovic Zinka - *Department of Microbiology and Infective Diseases*

خلاصه مقاله:

Objective: The aim of this research was to identify potential bacterial disease of dead wild fish (*Phoxinellus pstrossii*) from river Trebisnjica in Bosnia and Herzegovina. Fishes were submitted with several other species in the laboratory after an outbreak in this river. **Method & Materials:** Isolation of bacteria from digestive tract of *Phoxinellus pstrossii* was obtained on Blood agar, MacConkey agar and Bromocresol Purple Lactose agar, at 25°C for 24 h. Bacterial strain was preliminary identified using standard biochemical techniques such as oxidase, catalase, triple sugar iron agar, OF glucose, indol, urea, aesculin, citrates and motility tests. Final identification was performed with API 20E test. Tissue of dead fish was investigated by light microscopy. Tissue samples were fixed in 10% buffered formalin over 24 hours. Following fixation, tissue was routinely processed, embedded in paraffin and 4µm thick sections were prepared and stained with standard Hematoxylin-Eosin method. **Results & Conclusion:** *Aeromonas sobria* was isolated in pure culture from digestive tract of *Phoxinellus pstrossii*. Histopathologic examination of fish organs revealed diffuse hemorrhagic colitis in the caudal third of the colon and multifocal echimotic hemorrhages in the musculature. Observed histopathologic changes were correlated with *Aeromonas sobria* infection. This is first confirmation of occurrence of *Aeromonas sobria* in Bosnia and Herzegovina, and first report of *Aeromonas sobria* infection in *Phoxinellus pstrossii*.

کلمات کلیدی:

Aeromonas sobria, fish, *Phoxinellus pstrossii*, isolation, histopathology, outbreak

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/65371>

