

consisting in KOH 10mM. The quantification of the interested compounds was done by external standard. Then, the method was validated by analyzing selectivity, linearity, limit of detection, limit of quantification, precision and accuracy. The validated method can be described as a simple and also low cost method for the determination of formic and acetic acid in air samplers.

**Keywords:** *acetic acid, formic acid, indoor air, method validation*

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### **III-O-12. THE STRUCTURE OF THE BIOTIC COMMUNITIES IN AQUATIC ECOSYSTEMS FROM DANUBE RIVER**

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### **Abstract**

It is known that, through their activity, the biotic components modulates in space and time, on the one hand the structure of the hidrogeomorphological units and to the other hand the fluctuation of the domains with character of regime. The area chosen for study is placed on Danube river, on the Bazias-Calarasi sector - important areas in terms of

the existence of the potential pollution sources, both industrial sources and agriculture sources, the crops being extended in these areas. A sampling and monitoring program was performed for representative control sections, whose geographic locations were established with a portable GPS receiver. The main objective of this study is to assess the current ecological status of aquatic ecosystems in accordance with the requirements of the EU Water Framework Directive (transposed into Romanian legislation by Law no.310/2004, which amend the Law no.107 /1996). The results obtained after monitoring of selected quality indicators will be used to create a multi-parametrical dat base.

**Keywords:** *Danube River, biotic components, GPS receiver, aquatic ecosystems*

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