

# **ADVANTAGES AND DISADVANTAGES OF USING AUTOMATIC ANALYZERS IN TESTING BLOOD BORNE DISEASES**

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The aim of this work was to monitor the advantages and disadvantages of using automatic analyzers screening blood donors to detect blood-borne diseases.

In CTSMB, MTS laboratory screening of blood donors is performed using two automatic analyzers: - DaVinci v. 1.3/Biomerieux - Evolis v. 11/BioRad

DaVinci system is dedicated to ELISA plates, open system, which requires maintenance and equipment minim. The initialization concept is to provide flexibility as well depending on ability of laboratory. DaVinci combines easy use with efficiency and security, to respond better laboratory needs.

The Evolis Microplate processor is fully automated. The system allows continuous sample loading up to 180 primary tubes and a continuous load microplates. The Evolis system reagents and ensure a high level of safety in laboratory. The system offers automatic password protection and complete traceability.

**Conclusions:** Advantages of automatic analysis: labor-saving laboratory, high-speed analysis, reproducible results.

Disadvantages of automatic analysis: cost – initial, installation, inflexible.