

THE FEASIBILITY OF USING MICROBIOLOGICAL ANALYZER VITEK 2 COMPACT.

Tsamenko K.V., Kireyev I.V.

The National University of Pharmacy, Kharkiv, Ukraine

k-cemenko@ukr.net

Adequacy of antimicrobial therapy plays a crucial role in recovery of patients with infections, the success of the therapy in many respects depends on quality of the microbiological analysis. Now in microbiological laboratories the distinct aspiration to automation of the researches, mentioning and a stage of determination of sensitivity to antimicrobial drugs is noted.

Currently, the increasingly popularity of automatic analyzers, among which a special place is occupied by microbiological analyzer Vitek 2 Compact, produced by the company Bio Merieux is the recognized leader in production of bacteriological analyzers for clinical, biological and industrial laboratories.

Automatic microbiological VITEK 2 Compact is intended for carrying out identification and determination of sensitivity of microorganisms to antibiotics and represents a considerable step forward concerning increase of convenience of using, reliability and universality in comparison with the previous analyzers of firm.

Advantages of VITEK 2 Compact before similar systems:

- Productivity is up to 60 cultures a day, single loading of 30 tests.
- Possibility of continuous additional charge of test units without technical breaks. Reading the test of cards happens each 15 minutes, the result of the analysis is available in 2-4 hours. Identification of mushrooms in 18 hours.
- It isn't required additions of additional reagents and/or indicators (neither for identification, nor for sensitivity). The improved Advanced Colorimetric TM technology, allowing to use bigger number of lengths of light waves, wider range of substrate, so to define bigger quantity of species of microorganisms and their strains with very high precision. The optimum quantity of substrates for card everyone the test reduces risk of inexact reading of results.
- Full automation of process thanks to barcoding system the test of cards. Everyone shaped the code bears information on a party code, an expiration date, a code of a product and unique identification number (or accession number). Cartridges for the test of cards also have shaped a code for prevention of mistakes at registration.

Automatic sealing of test unit for an exception of spill of bacterial suspension and personnel contact during the work and utilization.