Abstract
DIRAMIC is a turbidimetric semiautomatic system, product of the Biotechnology development in Cuba. It allows determining the antimicrobial sensibility in four hours starting from the isolation of the etiological agent and interpreting the antibiogram results awarding the classification of Sensitive, Intermediate and Resistant. Proposing extended arrays of antibiotics, allowing predicting the underlying mechanisms from the resistance profile is the main objective. A scientific literature review referred resistance mechanisms and interpretative reading of the antibiogram for Enterobacteriaceae, non-fermenting gram-negative bacilli and Staphylococcus sp. was carried out. Three panels of drugs were designed, for Enterobacteriaceae, non-fermenting gram-negative Bacilli (Pseudomonas aeruginosa y Acinetobacter sp.) and Staphylococcus sp. Interpretative reading aims to analyse the susceptibility pattern, not just the results for the individual antibiotics. It allows (i) recognizing unusual results; (ii) recognizing drugs best avoided owing to their risk of selecting resistance in the particular pathogen; and (iii) using 'indicator' drugs. Three panels of drugs to use in the Diramic system are proposed. New resistances of public health concern should be recognized. The interpretative reading aids therapeutic choice and enhances surveillance data.

Keywords
Interpretative reading, antibiogram, resistance mechanisms, DIRAMIC.