

LABORATORY MODULE 3 SIMPLE STAIN



INTRODUCTION

Visualizing microorganisms in the living state is quite difficult, not only because they are minute, but also because they are transparent and practically colorless when suspended in an aqueous medium. To study their properties and to divide microorganisms into specific groups for diagnostic purposes, biological stains and staining procedures in conjunction with light microscopy have become major tools in microbiology. Chemically, a stain (dye) is an organic compound containing a benzene ring plus a chromophore and an auxochrome group.

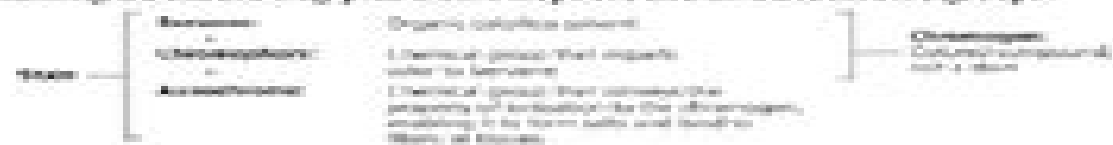


Figure 3.1 Chemical composition of a stain

The ability of a stain to bind to macromolecular cellular components such as proteins or nucleic acids depends on the electrical charge found on the chromogen portion, as well as on the cellular component to be stained.

Acidic stains are anionic, which means that, on ionization of the stain, the chromogen portion exhibits a negative charge and therefore has a strong affinity for the positive constituents of the cell. Proteins, positively charged cellular components, will readily bind to and accept the color of the negatively charged, anionic chromogen of an acidic stain. Structurally, phenic acid is an example of an acidic stain that produces an anionic chromogen.



Figure 3.2 Phenic acid: an acidic stain

Basic stains are cationic, because on ionization the chromogen portion exhibits a positive charge and therefore has a strong affinity for the negative constituents of the cell. Nucleic acids, negatively charged cellular components, will readily bind to and accept the color of the positively charged, cationic chromogen of a basic

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