A Novel Methodology for Automatic Bacterial Colony Counter

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Abstract

Many biological procedures depend on an accurate count of the bacterial colonies and other organisms. In biomedical research and clinical diagnosis, there is a great need to quantify the amount of bacteria in the samples. This paper presents a simple and cost effective methodology for automatically counting the Bacterial Colonies (BC). The proposed methodology for automatic colony counter is based on digital image processing techniques. Proposed methodology is tested with different type of filter images. It is observed that the results obtained with the proposed counter were not significantly different from the manual counting.

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A Novel Methodology for Automatic Bacterial Colony Counter


Index Terms

Computer Science  Pattern Recognition

Keywords
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morphological image processing