



Bioluminescence for Food and Environmental Microbiological Safety (SPIE Tutorial Text Vol. TT74) (Tutorial Texts Series)

Lubov Brovko

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This tutorial text provides an introduction to basics of bioluminescent methods used for rapid analysis of microbiological safety and quality of food and environmental samples.

This book is intended for engineers, scientists, students, and managers involved in the design and/or use of biosafety assays. It discusses the practical aspects of bioluminescent microbiological analysis. Some basic knowledge of biochemistry, microbiology, and biophysics is preferable; however, a brief review of fundamental principles are included that will allow people who are unfamiliar with these disciplines to grasp their basic concepts.

Contents

- Basics of Bioluminescence
- Bioluminescent Analysis
- Enzyme Kinetics and Its Analytical Applications
- Basics of Bioluminescence for Microbiological Assay Application
- Bioluminescent Microbiological Assay in Food Safety and Quality Control
- Hygiene Monitoring
- Identification of Microorganisms and Specific Detection of Bacteria Using Bioluminescence
- Bioluminescent Toxicity Assays
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