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Food Microbiology: A Laboratory Manual (Paperback)

By A.E. Yousef, Carolyn Carlstrom

John Wiley and Sons Ltd, United States, 2003. Paperback. Book Condition: New. Lab Manual. 251 x 178 mm. Language: English . Brand New Book. Yousef and Carlstrom s Food Microbiology: A Laboratory Manual serves as a general laboratory manual for undergraduate and graduate students in food microbiology, as well as a training manual in analytical food microbiology. Focusing on basic skill-building throughout, the Manual provides a review of basic microbiological techniques - media preparation, aseptic techniques, dilution, plating, etc. - followed by analytical methods and advanced tests for food-bourne pathogens. The Manual includes a total of fourteen complete experiments. The first of the Manual s four sections reviews basic microbiology techniques; the second contains exercises to evaluate the microbiota of various foods and enumerate indicator microorganisms. Both of the first two sections emphasize conventional cultural techniques. The third section focuses on procedures for detecting pathogens in food, offering students the opportunity to practice cultural, biochemical, immunoassay, and genetic methods. The final section discusses beneficial microorganisms and their role in food fermentations, concentrating on lactic acid bacteria and their bacteriocins. This comprehensive text also: focuses on detection and analysis of food-bourne pathogenic microorganisms like Escherichia coli 0157:H7, Listeria monocytogenes, and Salmonella; includes...

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