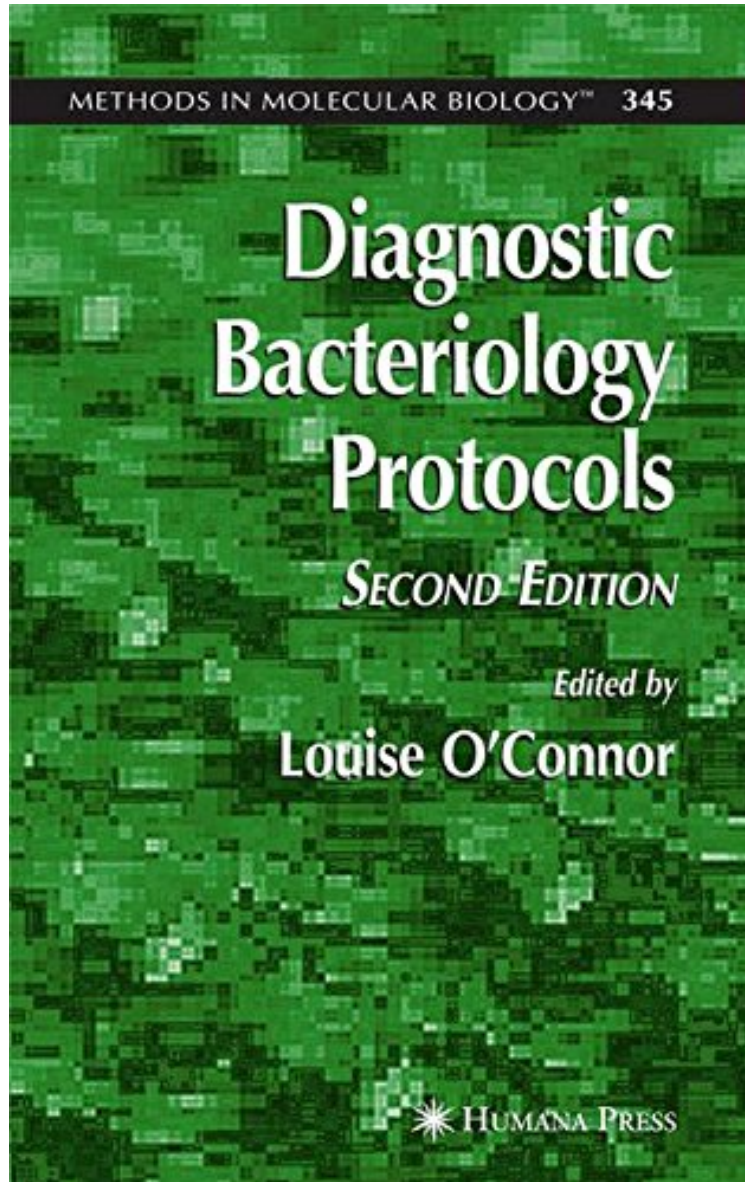


(Library ebook) Diagnostic Bacteriology Protocols (Methods in Molecular Biology)

Diagnostic Bacteriology Protocols (Methods in Molecular Biology)

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From Brand: Humana Press : Diagnostic Bacteriology Protocols (Methods in Molecular Biology) before purchasing it in order to gage whether or not it would be worth my time, and all praised Diagnostic Bacteriology Protocols (Methods in Molecular Biology):

The field of bacterial diagnostics has seen unprecedented advances in recent years. The increased need for accurate detection and identification of bacteria in human, animal, food, and environmental samples has fueled the development of new techniques. The field has seen extensive research aided by the information from bacterial genome sequencing projects. Although traditional methods of bacterial detection and identification remain in use in laboratories around the world, there is now a growing trend toward the use of nucleic acid-based diagnostics and alternative biochemically and immunologically based formats. The ultimate goal of all diagnostic tests is the accurate detection, identification, or typing of microorganisms in samples of interest. Although the resulting information is of obvious use in the areas of patient management, animal health, and quality control, it is also of use in monitoring routes of infection and outlining strategies for infection control. There is, therefore, a need to ensure that the information being provided is of the highest standard and that any new technique is capable of delivering this.

From the reviews: "The text is lucid and wonderfully brief...The techniques described have universal application to bacteriological analyses regardless of one's special interests or focus...a well and necessary addendum for all laboratories engaged in or planning to perform bacterial identifications..." -Quarterly of Biology" ...a useful addition to the portfolio of bioscience laboratories" -Microbiology Today" A very useful book for the bench scientist interested in techniques for differentiating bacterial isolates...should prove useful in a wide range of industrial and academic applications." -Doody's Health Sciences Book Journal "...undoubtedly a useful addition to the series and would be of use to research scientists." -Journal of Clinical Pathology From the reviews of the second edition: "This concise volume contains simple introductions to many techniques to supplement the traditional agar plate. The text is easy and clear to follow. The aim of the book is to provide ideas. The chapters can, therefore, be read for inspiration. Step-by-step guide to many of the procedures are included, so those about to embark on a new technique, or even those simply wanting to understand the principles will be able to benefit. A handy reference." (Dr. J Cargill, *acp News*, Winter, 2006) "This very practical volume provides concise, state of the art molecular diagnostic bacteriology protocols for a range of species. In my view this book provides a valuable additional source of applied protocols for scientists interested in the detection and differentiation of bacteria. I strongly recommend this book for purchase by laboratory-based scientists interested in bacterial detection and differentiation." (David C. Coleman, *SGM- Society for General Microbiology*, 2007) "The hard-cover publication in A5 format amounting to 225 pages including a six-page index contains 16 chapters. The book is thus a valuable aid both for beginning and for experienced laboratory workers. Diagnostic Bacteriology Protocols will be used both by experienced molecular biologists for whom it is a source of extending their used techniques, and by beginning specialists with basic knowledge of diagnostic procedures in molecular biology. The uniform and clear treatment offers very good orientation in the flood of ever-emerging facts." (E. Pavlk, *Folia Microbiologica*, December, 2007) From the Back Cover Carrying on the high standards of the much respected first edition, Diagnostic Bacteriology Protocols, Second Edition, has been fully updated to include the novel identification, detection, and typing technologies that are transforming the field of diagnostic testing. The authors, working at the forefront of diagnostic test development, highlight these new technologies and describe current and future molecular diagnostic tests and related nucleic acid extraction methods. The protocols range from advanced molecular detection, quantification, and typing systems, to protocols for diagnostic protein identification, serological testing, and cell culture-based assays. The emphasis is on nucleic acid-based diagnostics and alternative biochemically and immunologically based formats that can provide significant potential for multiparameter testing and automation. Several protocols describe specific organisms that may be easily modified to detect other species of interest. The protocols follow the successful *Methods in Molecular Biology* series format, each offering step-by-step laboratory instructions, an introduction outlining the principles behind the technique, lists of the necessary equipment and reagents, and tips on troubleshooting and avoiding known pitfalls. Forward looking and highly practical, Diagnostic Bacteriology Protocols, Second Edition illuminates the cutting-edge technologies now available for bacterial pathogen detection and identification and demonstrates their power and ease of use in a wide variety of applications.