

ENVIROAMP LEGIONELLA KITS

Rapid, Definitive *Legionella* Testing, The PCR Way.

Now, Perkin-Elmer combines the inherent sensitivity and specificity of PCR with the simplicity and convenience of the reverse dot blot format. The new Enviro Amp[®] Legionella Kits, used with the Gene Amp[®] PCR System 9600 or DNA Thermal Cycler 480, give you semi-quantitative, easy-to-interpret results on 25 *Legionella* species. The detection level achieved is as low as 10 organisms per mL in the water sample.

Throughput is enhanced with the ability to process 48 samples simultaneously. Results are available in less than six hours. Hands-on time is reduced compared to traditional methods.

The new Enviro Amp Legionella Sample Preparation, PCR Amplification and PCR Detection Kits with the Gene Amp PCR System 9600 or DNA Thermal Cycler 480. The complete, tested system

for monitoring water sources. Backed by our PCR Performance Guarantee. In the U.S., call PE XPRESS at 1-800-762-4002 to order. Or call 1-800-762-4001 for technical information. Outside the U.S., contact your local Perkin-Elmer sales representative.

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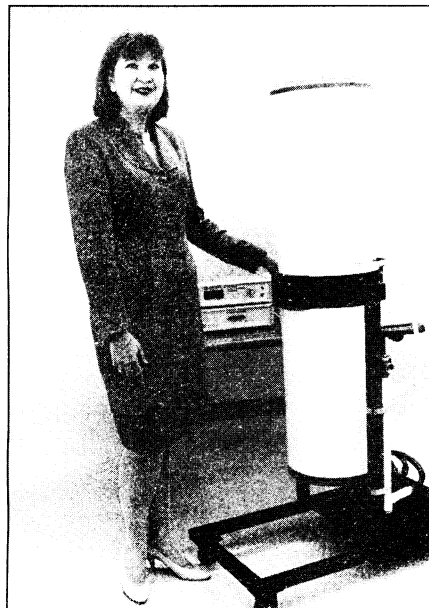
Perkin-Elmer PCR reagents are developed and manufactured by Roche Molecular Systems, Inc., Branchburg, New Jersey, U.S.A.



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COMPOSTING REACTOR

with O₂/CO₂ Respiration Monitor



- ❑ O₂ consumption and CO₂ production measured and displayed in both graphical and numerical form
- ❑ 1 to 16 reactors can be controlled by one computer and a single set of O₂/CO₂ sensors
- ❑ Water jacket maintained at the temperature of the center of the compost pile assures perfect thermal insulation
- ❑ Controlled air flow to the compost pile assures optimal thermal composting conditions
- ❑ Ideal for experimental modeling of composting processes before applying them in the field. Shortens composting time and *saves money!*

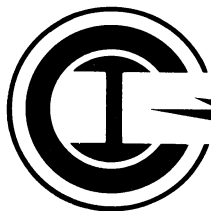
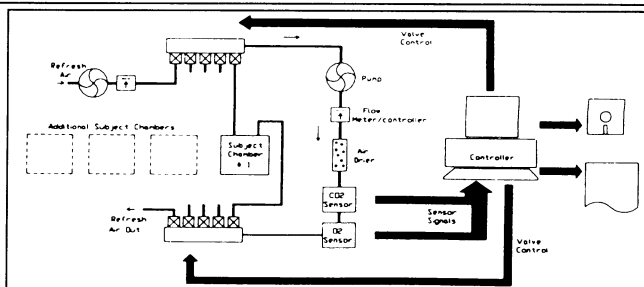
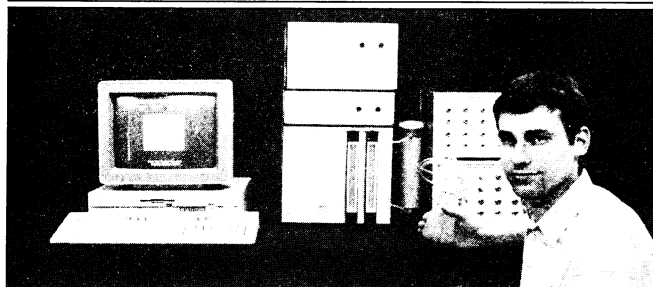
O₂/CO₂ RESPIROMETER

for Waste Bioremediation, Oxidation, Bioactivity and Food Technology

The Micro-Oxymax is a closed-circuit respirometer used to measure minute amounts of oxygen consumed and carbon dioxide produced by a sample. It operates on the principle of using external gas sensors to measure the change in oxygen and carbon dioxide concentrations in the head space of a measuring vessel and using this information to calculate how much oxygen the sample is consuming and how much carbon dioxide it is producing. To compute the oxygen consumption requires two measurements of the head space separated by a span of time. The Micro-Oxymax can perform measurements on up to 28 samples at the same time. When two or more samples are being monitored, the gas sensors are sequentially switched from one measuring vessel to the next. Since the system is closed, the head space gas in the measuring vessel is returned to the vessel after it has been analyzed by the gas sensors.

Specifications:

1. Measures O₂ and CO₂ plus RQ with 0.2 μ L/h sensitivity.
2. One to twenty measuring chambers under IBM-PC control.
3. User can use own chambers(reactors) 50mL to 30 L.
4. O₂ and CO₂ sensors external to the chamber(reactors).
5. Temperature of chambers can be user-adjustable.



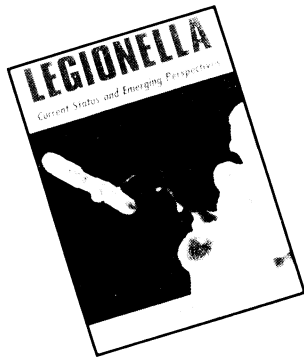
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NEW FROM ASM BOOKS



Leading experts present state-of-the-art research on all aspects of *Legionella*

LEGIONELLA

CURRENT STATUS AND EMERGING PERSPECTIVES

Editors: James M. Barbaree, Robert F. Breiman, and Alfred P. Dufour

Drawn from ASM's 1992 international symposium on the subject, this book completely updates information on all aspects of *Legionella* and Legionnaires disease. Subjects include diagnostic tests, interrelationships of protozoa and legionellae, PCR tests for *Legionella pneumophila*, mapping DNA, risk assessments, nosocomial infections, fatty acid analyses, surveillance for cases, occurrence and distribution of legionellae in domestic

water systems, response to biocides, and identification of epidemic strains. Strategy sessions summarize current issues involving preventive measures to minimize the presence of *Legionella* and occurrence of Legionnaires disease, the evolution of chemotherapy, and prospects for vaccine development. This is an extremely useful reference for clinical microbiologists, environmental microbiologists, epidemiologists, infectious disease and other clinical specialists, and environmental engineers.

Contents

- | | |
|---|--|
| I. Clinical and Epidemiologic Aspects of Legionellosis | V. Prevention and Control of Legionellosis (28 chapters) |
| II. Molecular and Cell Biology of <i>Legionella</i> (25 chapters) | VI. Summaries of Strategy Sessions |
| III. <i>Legionella</i> -Protozoa Interrelationships (10 chapters) | VII. Overview (Robert F. Breiman and James M. Barbaree) |
| IV. Detection and Characterization of Legionellae (16 chapters) | |

April 1993. Hardcover ISBN 1-55581-055-1. 390 pages (est.), illustrations, index. List price, \$79.00; ASM Member, \$69.00. Shipping charges: U.S., \$2.50/book; Non-U.S., \$4.50/book.

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Note Cards of Distinction

From the ASM Archives Photograph Collection.

Note cards with images from the ASM Archives Photograph Collection are being sold as a set of 10 blank cards and envelopes for \$12.00. These note cards were on display during the 1992 General Meeting at the ASM Archives booth and were extremely popular.

Each set of note cards includes the following five cover images:

- Louis Pasteur ● Paul Ehrlich ● Robert Koch
- Neisser in his Diagnostic Laboratory
- Diphtheria Toxin Preparation/Yates Street Laboratory

Please send your check (made payable to the ASM) to the ASM Archives, Albin O. Kuhn Library and Gallery, University of Maryland - Baltimore County, Baltimore, MD 21228-5398. If you have any questions, please call (410) 455-3601.

All proceeds will be used to enhance collections of the ASM Archives.



VIBRIO VULNIFICUS

LISTERIA MONOCYTOGENES

SACCHAROMYCES CEREVISIAE

CLOSTRIDIUM BOTULINUM

LACTOCOCCUS LACTIS

BACILLUS CEREUS

CAMPYLOBACTER COLI

WHAT DO THESE ORGANISMS HAVE IN COMMON?

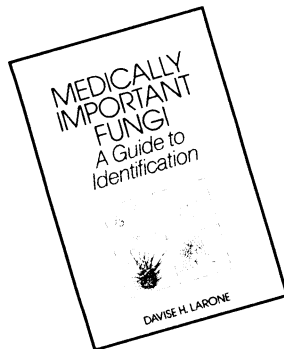
- They are food related.
- They are difficult to ID biochemically.
- They are all slimy little organisms.
- They are easy to ID by the MIS.
- All of the above.

**Check out the power of the fatty acid-based
MIDI Microbial Identification System.**

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NEW FROM ASM BOOKS



Announcing the reissue of a classic reference work

MEDICALLY IMPORTANT FUNGI A GUIDE TO IDENTIFICATION SECOND EDITION

Davise H. Larone

This unique and extremely popular book has been reissued by ASM to answer the demand of laboratory personnel in need of reliable and simple guidelines for identifying fungi that are clinically encountered. The material is arranged so that the laboratorian can systematically reach a possible identification knowing only the macro- and microscopic morphology of an isolated organism. Many possible variants of organisms are

found under several categories of morphology and pigment. The outstanding characteristics are listed on the page(s) for each organism, and references are suggested for further information. The text is clear and uncomplicated; line drawings are used throughout to provide further visual detail. **Medically Important Fungi** is an essential part of the active clinical microbiologist's library and an important ancillary text for the increasingly important courses in mycology.

Condensed Contents

I. Guides

II. Detailed Descriptions: Funguslike Bacteria, Yeasts and Yeastlike Organisms, Thermally Dimorphic Fungi, Thermally Monomorphic Molds

III. Laboratory Technique: Laboratory Procedures, Staining Methods, Media
Illustrated Glossary

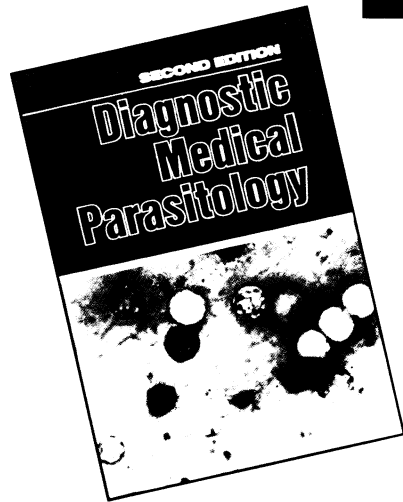
February 1993. Softcover ISBN 1-55581-058-6. 240 pages, line drawings, tables, glossary, index. List and ASM Member price, \$29.95. Shipping: U.S., \$1.50/book; Non-U.S., \$2.50/book.

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New edition of this popular text provides comprehensive discussion of parasites and how to detect and identify them

DIAGNOSTIC MEDICAL PARASITOLOGY

SECOND EDITION

Editors: Lynne S. Garcia and David A. Bruckner

In response to recent developments in the field of diagnostic medical parasitology, Garcia and Bruckner have significantly revised and updated this popular reference text to include discussions on newly recognized parasites, alternative techniques required by new regulatory requirements, implementation of testing based on molecular techniques, and an overall increased awareness of parasitic infections due to complications in AIDS patients and health problems among immigrants. **Diagnostic Medical Parasitology** provides laboratorians, physicians, or other health care professionals with concise, clinically relevant, and cost-effective procedures for use in the clinical laboratory setting.

CONDENSED CONTENTS

- I. Clinically Important Human Parasites
 1. Philosophy and Approach to Diagnostic Parasitology
 2. Intestinal Protozoa: Amebae
 3. Intestinal Protozoa: Flagellates and Ciliates
 4. Intestinal Protozoa: Coccidia and Microsporidia
 5. Protozoa from Other Body Sites
 6. Tissue Protozoa
 7. Malaria and *Babesia* spp.
 8. Leishmaniasis
 9. Trypanosomiasis
 10. Intestinal Nematodes
 11. Tissue Nematodes
 12. Filarial Nematodes
 13. Intestinal Cestodes
 14. Tissue Cestodes: Larval Forms
 15. Intestinal Trematodes
 16. Liver and Lung Trematodes
 17. Blood Trematodes: Schistosomes
 18. Unusual Parasitic Infections
 19. Parasitic Infections and the Compromised Host
 20. Nosocomial and Laboratory-Acquired Parasitic Infections
 21. Serodiagnosis of Parasitic Diseases
 22. Histological Identification of Parasites
 23. Medically Important Arthropods
 24. Treatment of Parasitic Infections
 - II. Diagnostic Procedures
 25. Collection, Preservation, and Shipment of Fecal Specimens
 26. Macroscopic and Microscopic Examination of Fecal Specimens
 27. Additional Techniques for Stool Examination
 28. Examination of Other Specimens from the Intestinal Tract and the Urogenital System
 29. Sputum, Aspirates, and Biopsy Material
 30. Procedures for Detecting Blood Parasites
 31. Parasite Recovery: Culture Methods, Animal Inoculation, and Xenodiagnosis
 32. Fixation and Special Preparation of Fecal Parasite Specimens and Arthropods
 33. Artifacts That Can Be Confused with Parasites
 34. Equipment, Supplies, Safety, a Quality Assurance Recommendations for a Diagnostic Parasitology Laboratory
- Appendixes
1. Information Tables
 2. Flowcharts for Diagnostic Procedures
 3. Common Problems in Parasite Identification
 4. Quality Control Recording Sheets
 5. Commercial Supplies and Suppliers
 6. General References

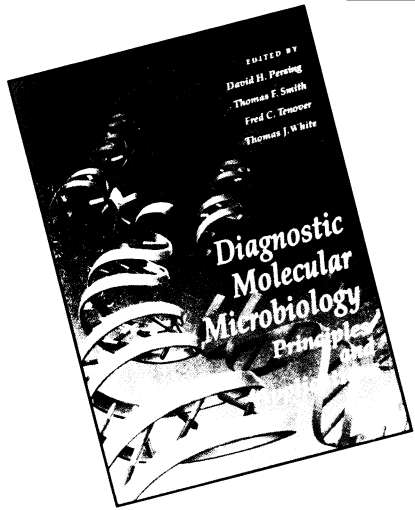
May 1995. Hardcover ISBN 1-55581-046-2. 760 pages (est.), illustrations, appendixes including tables and reference sources, glossary, index. List price: \$75.00. ASM Member: \$65.00. Shipping charges: U.S., \$5.50/book; Non-U.S., \$6.50/book.

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NEW FROM ASM BOOKS



A new title in ASM's tradition of outstanding clinical microbiology manuals!

DIAGNOSTIC MOLECULAR MICROBIOLOGY

PRINCIPLES AND APPLICATIONS

Editors: David H. Persing, M.D., Ph.D., Thomas F. Smith, Ph.D., Fred C. Tenover, Ph.D., Thomas J. White, Ph.D.

Recent developments in nucleic acid-based diagnostics have the potential to profoundly influence the clinical microbiology laboratory and ultimately the way physicians treat their patients. **Diagnostic Molecular Microbiology** is the first major text to provide complete coverage of both the principles and applications of molecular diagnostic methods as they pertain to infectious diseases. Written and edited by leading international experts, this text provides both the theoretical and practical framework for understanding the powerful uses of nucleic acid amplification technologies and for applying these techniques to the rapid detection and characterization of microbial pathogens (bacterial, viral, fungal, parasitic) in the clinical laboratory.

The nine chapters in part I (Principles) summarize the basic scientific theory underlying the emerging discipline of molecular diagnostics. The sixty-six protocols in part II (Applications) offer proven applications of molecular diagnostic techniques for the diagnosis of infectious diseases — essentially a compendium of “molecular recipes” from leading laboratories around the world.

Written in the tradition of ASM's other classic manuals, **Diagnostic Molecular Microbiology** is a valuable reference and teaching tool for any clinical microbiology laboratory.

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Foreword (Albert Balows)

Preface (David H. Persing)

I. Principles of Diagnostic Molecular Microbiology

1. Use of Nucleic Acid Probes for Detection and Identification of Infectious Agents
2. Molecular Typing Methods
3. Nucleic Acid Amplification Techniques
4. Primer Target Selection and Optimization
5. Amplification Product Inactivation Techniques
6. Sample Preparation
7. Amplification Product Detection Formats
8. Laboratory Design and Work Flow
9. Quality Control of Polymerase Chain Reaction

II. Applications of Diagnostic Molecular Microbiology

- Section 1. Bacterial Pathogens (21 protocols)
 - Section 2. Viral Pathogens (18 protocols)
 - Section 3. Fungal Pathogens (3 protocols)
 - Section 4. Parasitic Pathogens (6 protocols)
 - Section 5. Novel Organisms (1 protocols)
 - Section 6. Antimicrobial Resistance Loci (7 protocols)
 - Section 7. Molecular Typing Methods (5 protocols)
 - Section 8. Methods (2 protocols)
- Appendix. Suggested Materials
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May 1995, Softcover ISBN 1-55581-056-X, 660 pages (est.), 70 figures. List and ASM Member price, \$59.00. Shipping charges: U.S., \$2.50/book; Non-U.S., \$4.50/book.

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