

api® 20 E

IVD

Identification system for *Enterobacteriaceae* and other non-fastidious Gram-negative rods

SUMMARY AND EXPLANATION

API 20 E is a standardized identification system for *Enterobacteriaceae* and other non-fastidious, Gram-negative rods which uses 21 miniaturized biochemical tests and a database. The complete list of those organisms that it is possible to identify with this system is given in the Identification Table at the end of this package insert.

PRINCIPLE

The API 20 E strip consists of 20 microtubes containing dehydrated substrates. These tests are inoculated with a bacterial suspension that reconstitutes the media. During incubation, metabolism produces color changes that are either spontaneous or revealed by the addition of reagents.

The reactions are read according to the Reading Table and the identification is obtained by referring to the Analytical Profile Index or using the identification software.

CONTENT OF THE KIT

Kit for 25 tests (ref. 20 100)

- 25 API 20 E strips
- 25 incubation boxes
- 25 result sheets
- 1 clip seal
- 1 package insert

Kit for 100 tests (ref. 20 160)

- 100 API 20 E strips (4x25 strips)
- 100 incubation boxes
- 100 result sheets
- 1 clip seal
- 1 package insert

COMPOSITION OF THE STRIP

The composition of the API 20 E strip is given in the Reading Table of this package insert.

REAGENTS AND MATERIAL REQUIRED BUT NOT PROVIDED

Reagents :

- API NaCl 0.85 % Medium, 5 ml (Ref. 20 230) or API Suspension Medium, 5 ml (Ref. 20 150)
- API 20 E reagent kit (Ref. 20 120) or individual reagents : TDA (Ref. 70 402)
JAMES (Ref. 70 542)
VP 1 + VP 2 (Ref. 70 422)
NIT 1 + NIT 2 (Ref. 70 442)
- Zn reagent (Ref. 70 380)
- Oxidase (Ref. 55 635*)
* reference not sold in certain countries : use an equivalent reagent.
- Mineral oil (Ref. 70 100)
- API 20 E Analytical Profile Index (Ref. 20 190) or identification software (consult bioMérieux)

Material :

- Pipettes or PSipettes
- Ampule protector
- Ampule rack
- General microbiology laboratory equipment

POSSIBLE ADDITIONAL REAGENTS :

- API OF Medium (Ref. 50 110) :
Test for the determination of fermentative or oxidative metabolism.
- API M Medium (Ref. 50 120) :
Test for motility of facultative anaerobic bacteria.

WARNINGS AND PRECAUTIONS

- For *in vitro* diagnostic use and microbiological control.
- For professional use only.
- This kit contains products of animal origin. Certified knowledge of the origin and/or sanitary state of the animals does not totally guarantee the absence of transmissible pathogenic agents. It is therefore recommended that these products be treated as potentially infectious, and handled observing the usual safety precautions (do not ingest or inhale).
- All specimens, microbial cultures and inoculated products should be considered infectious and handled appropriately. Aseptic technique and usual precautions for handling the bacterial group studied should be observed throughout this procedure. Refer to "NCCLS M29-A, Protection of Laboratory Workers from Instrument Biohazards and Infectious Disease Transmitted by Blood, Body Fluids, and Tissue; Approved Guideline - December 1997". For additional handling precautions, refer to "Biosafety in Microbiological and Biomedical Laboratories, HHS Publication No. (CDC) 93-8395, 3rd Edition (May 1993)", or to the regulations currently in use in each country.
- Do not use reagents past the expiration date.
- Before use, check that the packaging of the various components is intact.
- Do not use strips which have been damaged : cupules deformed, desiccant sachet open, ...
- The performance data presented were obtained using the procedure indicated in this package insert. Any change or modification in the procedure may affect the results.
- Interpretation of the test results should be made taking into consideration the patient history, the source of the specimen, colonial and microscopic morphology of the strain and, if necessary, the results of any other tests performed, particularly the antimicrobial susceptibility patterns.

Api 20e Manual

Karen C. Carroll, Michael A. Pfaller



Api 20e Manual:

The Veterinary Laboratory and Field Manual 3rd Edition Susan C. Cork, Roy Halliwell, 2019-06-03 Isolated regions of the world are often at the forefront of emerging diseases and to be effective in disease prevention and control they require basic resources for field sample collection and testing in conditions vastly different from those available in well equipped reference laboratories Technical support for field extension staff and the availability of reliable diagnostic testing facilities are also vital to ensure sustainable livelihoods for subsistence farmers This technical handbook aims to provide an easy to follow overview of the basic laboratory techniques and sample collection guidelines that we consider useful for staff working in district veterinary facilities in regions that lack the infrastructural support available for staff with ready access to national veterinary laboratories The Veterinary Laboratory and Field Manual 3rd Edition provides the reader with a summary of basic diagnostic procedures and sample submission guidelines and also advocates for improved communication between animal health extension staff veterinarians laboratory staff and farmers Case studies are used to illustrate key concepts Basic laboratory disciplines are covered including parasitology microbiology haematology serology immunology and pathology There are also sections on laboratory infrastructure and equipment There is additional content on common clinical presentations One Health approaches to Antimicrobial resistance the role of the OIE disease surveillance and wildlife disease monitoring Supplementary tools for use in the field and laboratory are also available online This new edition of The Veterinary Laboratory and Field Manual is updated to include content on pen side tests selection and integration of new technologies engagement with international agencies and programs and the One Health approach to disease monitoring Animal Health extension staff in isolated regions of the world and NGOs can benefit from this book as well as policy makers supporting veterinary work in rural areas and veterinary para professionals involved in One Health work 5m Books [Manual of Clinical Microbiology, 4 Volume Set](#) Karen C. Carroll, Michael A. Pfaller, 2024-11-19 Revised by a collaborative international interdisciplinary team of editors and authors this edition of the Manual of Clinical Microbiology includes the latest applications of genomics and proteomics and is filled with current findings regarding infectious agents leading edge diagnostic methods laboratory practices and safety guidelines This edition also features four new chapters Diagnostic Stewardship in Clinical Microbiology Salmonella Escherichia and Shigella and Morganellaceae Erwiniaceae Hafniaceae and Selected Enterobacterales This seminal reference of microbiology continues to set the standard for state of the science laboratory practice as the most authoritative reference in the field of microbiology If you are looking for online access to the latest from this reference or site access for your lab please visit www.wiley.com/learn/clinmicronow **Clinical Microbiology Procedures Handbook, Multi-Volume** Amy L. Leber, Carey-Ann D. Burnham, 2024-11-13 Gold Standard consensus based procedures from the experts The Clinical Microbiology Procedures Handbook 5th edition provides those engaged in microbial analysis of clinical specimens with procedures for the detection identification and characterization of

microorganisms involved in human infections This unique and valuable collection of step by step descriptions of the numerous testing modalities used in the clinical microbiology laboratory was written and edited by highly knowledgeable laboratorians The 5th edition features two new sections one on blood cultures and one on MALDI TOF MS and the sections on molecular diagnostics virology and serology were extensively revised and updated Presented over multiple volumes this handbook enables laboratory staff to perform all analyses including appropriate quality control recommendations from the receipt of the specimen through processing testing interpretation presentation of the final report and subsequent consultation If you are looking for online access to the latest from this reference or site access for your lab please visit www.wiley.com/learn/clinmicronow [Practical Handbook of Microbiology](#) Lorrence H Green, Emanuel Goldman, 2021-05-04 Practical Handbook of Microbiology 4th edition provides basic clear and concise knowledge and practical information about working with microorganisms Useful to anyone interested in microbes the book is intended to especially benefit four groups trained microbiologists working within one specific area of microbiology people with training in other disciplines and use microorganisms as a tool or chemical reagent business people evaluating investments in microbiology focused companies and an emerging group people in occupations and trades that might have limited training in microbiology but who require specific practical information Key Features Provides a comprehensive compendium of basic information on microorganisms from classical microbiology to genomics Includes coverage of disease causing bacteria bacterial viruses phage and the use of phage for treating diseases and added coverage of extremophiles Features comprehensive coverage of antimicrobial agents including chapters on anti fungals and anti virals Covers the Microbiome gene editing with CRISPR Parasites Fungi and Animal Viruses Adds numerous chapters especially intended for professionals such as healthcare and industrial professionals environmental scientists and ecologists teachers and businesspeople Includes comprehensive survey table of Clinical Commercial and Research Model bacteria The Open Access version of this book available at <http://www.taylorfrancis.com> has been made available under a Creative Commons Attribution Non Commercial No Derivatives 4.0 license Chapter 21 Archaea of this book is freely available as a downloadable Open Access PDF under a Creative Commons Attribution Non Commercial No Derivatives 4.0 license available at <http://www.taylorfrancis.com> See Emanuel Goldman's Open Access article Lamarck redux and other false arguments against SARS CoV 2 vaccination <https://www.embopress.org/doi/full/10.15252/embr.202254675> **Handbook of Laboratory Animal Bacteriology, Second Edition** Axel Kornerup Hansen, Dennis Sandris Nielsen, 2014-11-11 The Handbook of Laboratory Animal Bacteriology Second Edition provides comprehensive information on all bacterial phylae found in laboratory rodents and rabbits to assist managers veterinary pathologists and laboratory animal veterinarians in the management of these organisms The book starts by examining the general aspects of bacteriology and how to sample and identify bacteria in animals It then describes the most relevant species within each phylum and discusses the impact they may have on research Emphasizing those bacteria known to interfere with research protocols the book offers

methods for isolation and differentiation among related bacteria It discusses where to purchase reagents for rodent bacteriology and outlines standards for safety in a bacteriological laboratory Highlights of the second edition Focuses on modern sequencing techniques based on molecular identification Reorganizes content according to modern systematics based on new identification methods Presents new chapters on mechanisms behind bacterial impact on animal models and on the systematic classification of bacteria Provides information on a range of bacteria interfering with animal models for human disease not only for those bacteria which cause disease in laboratory animal colonies Includes new figures in color and with enhanced resolution The book is essential reading for those interested in the management of organisms known to interfere with the colony health of rabbits and rodents used in research protocols including facility managers clinical veterinarians veterinary pathologists and researchers

Manual for the Certification of Laboratories Analyzing Drinking Water, 1991

Bailey & Scott's Diagnostic Microbiology - E-Book Patricia M. Tille, 2013-06-28 Known as the 1 bench reference for practicing microbiologists and an excellent text for students in clinical laboratory science programs Bailey Scott's Diagnostic Microbiology 13th Edition helps you develop and refine the skills you need for effective laboratory testing In depth information is useful and easily accessible with step by step instructions for all the procedures This edition features more than 20 NEW chapters plus updated material on the newest advances and the latest trends in clinical microbiology Written by expert Dr Patricia Tille this classic reference addresses the topics and issues most relevant to you and your success on the job Hands on procedures include step by step instructions full color photos and expected results helping you achieve more accurate results Case studies give you the opportunity to apply your skills in a variety of diagnostic scenarios and help improve your decision making and critical thinking skills Genera and Species to be Considered boxes highlight all of the organisms to be discussed in each chapter including the current name of the species as well as any previous names Student resources on Evolve enhance your learning with review questions and procedures Convenient easy to read tables summarize key information Detailed full color illustrations aid comprehension and help you visualize concepts A glossary of terms is found at the back of the book for quick reference NEW Learning objectives begin each chapter giving you a measurable outcome to achieve by the completing the material NEW Review questions on the Evolve companion website are tied to learning objectives and enhance your understanding and retention of chapter content NEW Reader friendly chapters cover groups of related organisms rather than addressing all at once including the parasitology mycology and virology chapters

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Practical Handbook of Microbiology Emanuel Goldman, Lorrence H Green, 2008-08-29 The field of microbiology has developed considerably in the last 20 years building exponentially on its own discoveries and growing to encompass many other disciplines Unfortunately the literature in the field tends to be either encyclopedic in scope or

presented as a textbook and oriented for the student Finding its niche between these two pol **Manual of Commercial Methods in Clinical Microbiology** ,2016-03-28 The Manual of Commercial Methods in Clinical Microbiology 2nd Edition International Edition reviews in detail the current state of the art in each of the disciplines of clinical microbiology and reviews the sensitivities specificities and predictive values and subsequently the effectiveness of commercially available methods both manual and automated This text allows the user to easily summarize the available methods in any particular field or for a specific pathogen for example what to use for an Influenza test a Legionella test or what instrument to use for identification or for an antibiotic susceptibility test The Manual of Commercial Methods in Clinical Microbiology 2nd Edition International Edition presents a wealth of relevant information to clinical pathologists directors and supervisors of clinical microbiology infectious disease physicians point of care laboratories professionals using industrial applications of diagnostic microbiology and other healthcare providers The content will allow professionals to analyze all commercially available methods to determine which works best in their particular laboratory hospital clinic or setting Updated to appeal to an international audience The Manual of Commercial Methods in Clinical Microbiology 2nd Edition International Edition is an invaluable reference to those in the health science and medical fields

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