

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

Daniela Niemeyer



Api 20e Manual:

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 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 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>

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 poles

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Clinical Microbiology Procedures Handbook, 2020-08-06 In response to the ever changing needs and responsibilities of the clinical microbiology field Clinical Microbiology Procedures Handbook Fourth Edition has been extensively reviewed and updated to present the most prominent procedures in use today The Clinical Microbiology Procedures Handbook provides step by step protocols and descriptions that allow clinical microbiologists and laboratory staff personnel to confidently and accurately 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

Nordic Manual for the Surveillance and Diagnosis of Infectious Diseases in Farmed Salmonids Paul J. Midtlyng, Hogné Bleie, Sigurdur Helgason, Eva Jansson, Jens Laurits Larsen, Niels Jørgen Olesen, Anne Berit Olsen, Pia Vennerstrøm, 2000 *Handbook of Laboratory Animal Bacteriology* 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

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