

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.

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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>

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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

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

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