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Reference

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2. Ewing, 1986, Edwards and Ewing's Identification of Enterobacteriaceae, 4th Ed. Elsevier Science Publishing Co., Inc., New York.
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Product Profile

Reconstitution	29.18 g/l
Quantity on Preparation (500g)	17,14 L
pH (25°C)	6.7±0.2
Supplement	None
Sterilization	121°C / 15 minutes
Storage	Dry Medium : Below 30°C Prepared Medium : 2-8° C

Acetobacter Agar (Glucose) / Acetobacter Agar w/ Liver Extract / Acetobacter Agar (Mannitol) M238/M346/M370

Acetobacter Agars are used as a maintenance media for glucose / mannitol positive *Acetobacter* species.

Composition **

Ingredients	M238 Gms/Litre	M346 Gms/Litre	M370 Gms/Litre
Casein enzymic hydrolysate	-	5,000	-
Peptic digest of animal tissue	-	-	3,000
Calcium carbonate	10,000	10,000	-
Liver extract	-	2,000	-
Yeast extract	10,000	-	5,000
Glucose	3,000	20,000	-
Mannitol	-	-	25,000
Agar	15,000	20,000	15,000
Final pH (at 25°C)	7.4±0.2	7.4±0.2	7.4±0.2

** Formula adjusted, standardized to suit performance parameters.

Directions

Suspend 38 grams of M238 or 48 grams of M370 or 57 grams of M346 in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Dispense in test tubes, taking care to distribute calcium carbonate evenly. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Shake the tubes and place them to cool in a slanted position so as to keep the calcium carbonate in suspension.

Note: Due to presence of calcium carbonate, the prepared medium forms opalescent solution with white precipitate.

Principle and Interpretation

Acetobacter species are aerobic, gram-negative organisms. Under acidic conditions they oxidize ethanol to acetic acid. These are used in making vinegar. Acetic acid bacteria are found in fruits with high carbohydrate concentration, which is selective for yeasts that produce ethanol. This ethanol forms the substrate for acetic acid bacteria and may oxidize ethanol to acetic acid (1). Various synthetic and maintenance media for *Acetobacter* cultures have been cited (2). A

typical maintenance medium is Acetobacter Agar (2) Acetobacter Agar is formulated as per Manual of Microbiological Methods (3) and used for the maintenance of *Acetobacter* species utilizing glucose or mannitol (4).

Peptic digest of animal tissue/ casein enzymic hydrolysate, yeast extract/ liver extract in the medium provides nitrogen, vitamins and minerals necessary to support bacterial growth. Glucose and mannitol acts as energy source. Calcium carbonate acts as a buffer.

Quality Control

Appearance

M238: Cream to yellow homogeneous free flowing powder
M346: Cream to yellow homogeneous free flowing powder
M370: Cream to yellow homogeneous free flowing powder

Gelling

M238: Firm, comparable with 1.5% Agar gel
M346: Firm, comparable with 2.0% Agar gel
M370: Firm, comparable with 1.5% Agar gel

Colour and Clarity

M238: Light amber coloured opalescent gel with heavy white precipitate, forms in tubes as slants.
M346: Light amber coloured opalescent gel with heavy white precipitate, forms in tubes as slants.
M370: Light amber coloured opalescent gel forms in tubes as slants.

Reaction

M238: Reaction of 3.8% w/v aqueous solution at 25°C. pH : 7.4±0.2
M346: Reaction of 5.7% w/v aqueous solution at 25°C. pH : 7.4±0.2
M370: Reaction of 4.8% w/v aqueous solution at 25°C. pH : 7.4±0.2

Cultural Response

M238: Cultural characteristics observed after an incubation at 35-37°C for 24-48 hours.
M346: Cultural characteristics observed after an incubation at 35-37°C for 24-48 hours.
M370: Cultural characteristics observed after an incubation at 35-37°C for 24-48 hours.

Himedia Laboratory Manual

Laichao Luo , Muhammad Farooq



Himedia Laboratory Manual:

The HiMedia Manual For Microbiology Laboratory Practice, 1998 *Microbiology Laboratory Manual* Adel M. Mahasneh, Salwa M. Bdour, 2006-01-01 This manual is designed to satisfy the needs of students enrolled in B Sc degree program in Biological Microbiological Agricultural and health professions It provides well balanced and chosen collection of relevant practical Microbiology Laboratory experiments Students will perform experiments and report on quantitative as well as descriptive data pertaining to the concept they are tackling The experiments in this manual stresses the quantitative methods experimental controls data analysis as well as report writing The experiments were designed to provide maximum flexibility although each experiment represents well defined concept several experiments may be performed concurrently depending upon availability of tools and equipments as well as time constraints and students numbers in each laboratory session Several appendixes appear at the end of the manual which include staining techniques media composition and some bacterial diagnostic plates Descriptor s MICROBIOLOGY MICROSCOPIC ANALYSIS LABORATORIES TEACHING AIDS

Comprehensive Laboratory Manual of Life Sciences Mamta Baunthiyal, Indu Ravi, Jyoti Saxena, 2019-12-19 The present book Comprehensive Laboratory Manual of Life Science deals with practical trends in modern biological sciences It furnishes protocols on recent advances in biotechnological methods and aims to cover three most important aspects of this interdisciplinary stream such as Microbiology Biochemistry and Molecular biology The book contains four sections 1 Introduction emphasizes on good laboratory practices and etiquettes for beginners the do s and don ts of working in a laboratory concepts and terminology etc 2 Instruments Principle and Precautions explores commonly used equipments employed in different experiments 3 Experiments is further divided into three parts Microbiology with more than 70 experiments Biochemistry with 62 and Molecular Biology having around 32 detailed protocols accorded to make the readers proficient in the paramount disciplines of Bio Sciences and Biotechnology 4 Appendix at the end a rather comprehensive section that concludes the book This book is designed to meet the practical requirements of undergraduate and post graduate students of Life Science Biotechnology Microbiology Biochemistry and Biochemical Engineering by providing worked out solution to the most commonly practiced experiments prescribed by majority of Indian Universities The latest technological developments in the book will be appealing to the researchers and scientists *Laboratory Manual of Microbiology, Biochemistry and Molecular Biology* J. Saxena, M. Baunthiyal, I. Ravi, 2015-05-01 Though many practical books are available in the market but this Laboratory Manual of Microbiology Biochemistry and Molecular Biology is an unique combination of protocols that covers maximum about 80% of the practicals of various Indian universities for UG and PG courses in Bioscience Biotechnology Microbiology Biochemistry and Biochemical Engineering *Manual of Laboratory Testing Methods for Dental Restorative Materials* Paromita Mazumdar, Deepshikha Chowdhury, 2021-08-23 Explore the properties of a wide range of dental materials used in restorative dentistry with a brand new resource The Manual of

Laboratory Testing Methods for Dental Restorative Materials delivers a comprehensive and accessible review of the materials used in restorative dentistry The book offers readers an evidence based application of the materials and their mechanical physical and optical properties Each chapter begins with key points and includes a glossary to aid in the learning and retention of the material contained within The book also covers the methods used to study the properties and the advantages and disadvantages of various dental restorative materials as well as why they are selected The Manual of Laboratory Testing Methods for Dental Restorative Materials will be a helpful addition to any institute library or personal collection and will cater to the needs of postgraduate dental students researchers and academics in the fields of dentistry and material sciences

Manual for Laboratory Diagnosis of Leptospirosis : One Health Approach Siti Khairani Bejo,Fairuz Amran,Zunita Zakaria,Aziah Daud,Mazrura Sahani,Khoo Evie,2017-09-30 Leptospirosis is a zoonotic disease caused by the pathogenic *Leptospira* spp In animals the disease affects various species including livestock wildlife and companion animals The book assesses the dynamic relationship in the animal human ecosystem for better management of the disease One Health initiative is dedicated to improving the lives of all species humans and animals

Microbiological Methods for Environment, Food and Pharmaceutical Analysis Abhishek Chauhan,Tanu Jindal,2020-09-18 This book provides a broad account of various applied aspects of microbiology for quality and safety evaluations in food water soil environment and pharmaceutical sciences The work is timely as the safety and quality of various commodities such as water and wastewater food pharmaceutical medications and medical devices are of paramount concern in developing countries globally for improved public health quality in areas ranging from food security to disease exposure The book offers an introduction to basic concepts of biosafety and related microbiological practices and applies these methodologies to a multitude of disciplines in subject focused chapters Each chapter offers experiments and exercises pertaining to the specific area of interest in microbiological research which will allow readers to apply the knowledge gained in a laboratory or classroom setting to see the microbiological methods discussed in practice The book will be useful for industrialists researchers academics and undergraduate graduate students of microbiology biotechnology botany and pharmaceutical sciences The text aims to be a significant contribution in effectively guiding scientists analysts lab technicians and quality managers working with microbiology in industrial and commercial fields

Meeting the Triple-H Challenge: Advanced Crop-Soil-Fertilizer Management Strategies to Maximize Crop Yield, Quality, and Nutrient Efficiency Laichao Luo , Muhammad Farooq,2025-02-19 The growing global population and the increasing vulnerability of agriculture have made many challenges of modern agricultural production One of the main challenges is to produce and provide sufficient quantities of healthy and nutritionally valuable food on the basis of not excessive fertilizer resources consumption To meet the challenge new knowledge solutions and innovative agricultural practices must be acquired in research and appropriately implemented into agricultural green development Many new sustainable practices were adopted in order to

increase crop productivity nutritional and safety quality as well as reduce the impact on the environment high nutrients efficiency These practices basically include the introduction and integration of strategies from different disciplines from plant science crop science microbiology to soil science such as crop physiology physio biochemistry plant nutrition and fertilizer science soil management rhizosphere ecology crop root soil interactions and management environmental microbial technology recombinant microorganisms techniques PGPR etc Innovative management strategies have been used to clarify the matching mechanisms underlying crop soil fertilizer systems in order to achieve the triple H namely high yield high quality and high nutrient efficiency

Proceedings of the 3rd International Conference on Sustainable Agriculture for Rural Development (ICSARD 2022) Susanto B. Sulistyono, Abdul Mukhlis Ritonga, Ratna Satriani, Eka Oktaviani, Ni Wayan Anik Leana, 2023-04-19 This is an open access book The 3rd International Conference on Sustainable Agriculture for Rural Development ICSARD 2022 which will be held on August 23 2022 using zoom online platform The 3rd ICSARD 2022 is organised by Faculty of Agriculture Universitas Jenderal Soedirman The topic Strengthening Sustainable Agriculture in the New Normal and Disruptive Technology Era including Agrotechnology Agroecology Soil Science Agronomy Horticulture Plant Protection Plant Breeding and Biotechnology Food Science and Technology Food Processing Technology Food Microbiology Food Chemistry Food Biochemistry Agro Industrial Management Food and Nutrition Agricultural and Biosystem Engineering Farm Machinery Precision Farming Food Engineering Instrumentation and Control in Biosystem Engineering Bio Environment Control and Management Engineering Post Harvest Handling and Processing Engineering Renewable Energy Agricultural Management and Information System Socio Economics of Agriculture and Agribusiness Other topics related to sustainable agriculture

Handbook of Media for Clinical and Public Health Microbiology Ronald M. Atlas, James W. Snyder, 2013-10-24 The detection and or isolation and identification of pathogenic microorganisms is critical for the laboratory diagnosis of infectious diseases With growth dependant methods providing reliable means for identifying pathogens traditional culturing continues to play an integral role in the detection and characterization of known and new microbial pathogens Microbiologists therefore rely on a variety of media for the detection isolation characterization and identification of primary and opportunistic microbial pathogens The Handbook of Media for Clinical and Public Health Microbiology provides a compilation of the formulations methods of preparation and applications for media used in clinical and public health microbiology laboratories It is a significant update to the Handbook of Media for Clinical Microbiology expanding the coverage to media used for public health epidemiological investigations of disease outbreaks and including media used for the detection of pathogens in foods and environmental samples Comprising both classic and modern media the handbook describes almost 1 800 types of media listed alphabetically including new media for the cultivation of emerging bacteria fungi and viruses that are causing major medical problems around the world Examples of emerging pathogens are extended spectrum beta lactamase ESBL producing bacteria Escherichia coli O157 H7 methicillin resistant Staphylococcus

aureus MRSA vancomycin resistant enterococci VRE and carbapenem resistant Enterobacteriaceae CRE Many of the new media contain chromogenic or fluorogenic substrates that permit rapid detection of specific pathogens The handbook s format allows easy reference to information needed to prepare media for cultivating clinically relevant microorganisms It also contains descriptions of expected results for organisms that are important for the examination of foods water and other specimens of public health significance as well as clinical specimens

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