

LB agar recipe

The recipe below is used to prepare a 500 mL LB agar solution. This amount will be enough to make approximately 20 - 30 plates.

Reagent	Mass / Volume
Agar	7.5 grams
Tryptone	5 grams
NaCl	5 grams
Yeast extract	2.5 grams
Distilled water	Up to 500 mL

How to make LB agar plates

1. Weigh out 7.5 g agar, 5 g tryptone, 5 g sodium chloride (NaCl) and 2.5 g yeast extract and add to a 1 L Duran bottle.
2. Measure out approximately 400 mL of distilled water and add to the Duran bottle.
3. Shake the bottle to dissolve the reagents.
4. Once the reagents have fully dissolved, adjust the pH to 7.0 by using sodium hydroxide (NaOH) solution (1 N).
5. Once the pH is adjusted, top up the solution to 500 mL by using distilled water.

Optional: set a water bath to 55°C.

6. To sterilise, autoclave the solution on a liquid cycle (20 min at 15 psi).
7. Leave the solution to cool to approximately 55°C, or warm enough to be held in your hand without burning it.

If you do not have enough time to keep an eye on the temperature, put the bottle into the water bath. This will prevent the solution from setting prematurely.

8. When cooled, add the appropriate antibiotic into the solution and swirl to mix.
9. Prepare Petri dishes in a sterile environment (surfaces cleaned with 70% ethanol etc.). Carefully pour a thin layer of solution into the Petri dishes to cover the bottom of the plate (approximately 10 - 20 mL per plate). Try to avoid transferring or creating any bubbles.
10. Leave the plates to set before storing them in the fridge.

Lb Agar Plates Recipe

David A. Micklos, Greg A. Freyer



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Handbook of Molecular and Cellular Methods in Biology and Medicine Leland J. Cseke, Ara Kirakosyan, Peter B. Kaufman, Margaret V. Westfall, 2016-04-19 Several milestones in biology have been achieved since the first publication of the Handbook of Molecular and Cellular Methods in Biology and Medicine This is true particularly with respect to genome level sequencing of higher eukaryotes the invention of DNA microarray technology advances in bioinformatics and the development of RNAi technology

The Integrated Approach to Chemistry Laboratory Partha Basu, Mitchell Johnson, 2009-05 This book features complete and original labs for the integrated laboratory All materials protocols and equipment are spelled out Each lab is customizable for your department The book introduces and explains a wide range of lab techniques and is geared to various ability levels This volume is intended for chemistry instructors seeking to provide engaging and challenging labs that combine all the features and benefits of the integrated laboratory Written by educators from around the country each chapter of the book contains a fully detailed and explained experiment with guidance for student questions and possible customization The book offers students and instructors a wealth of learning opportunities in experiment preparation measurement recording and analysis from disciplines extending from biology and microbiology to geology nanotechnology and microelectronics All experiments have been classroom tested with safety and monitoring issues given precedence Many of the experiments contain modules that permit the instructor to make the lab more challenging as time and student ability dictate

Integrated Genomics Guy A. Caldwell, Shelli N. Williams, Kim A. Caldwell, 2006-08-04 Integrated Genomics A Discovery Based Laboratory Course introduces the excitement of discovery to the basic molecular biology laboratory Utilizing up to date molecular biology protocols and a basic experimental design this text offers experience with three different model systems Students will become familiar with the simplicity and power of single celled organisms *Escherichia coli* and *Saccharomyces cerevisiae* as they search for genes that interact and function within the nematode *Caenorhabditis elegans* Incorporated throughout the course are exercises designed to offer students familiarity with the wealth of bioinformatics data that can be accessed on the World Wide Web Following completion of interaction studies within the yeast the course is designed to allow students to examine the functional consequences of reducing a gene's function within the multicellular worm that is both simple and inexpensive to maintain within a laboratory The inclusion of alternative experiments allow for flexibility in determining the ending date or goal of the laboratory as well as working within the available budget and resources of most any classroom environment Further striking features of this title are An accompanying Web site providing PowerPoint slides plus links to the internet and regular updates as bioinformatics databases evolve and methods improve www.wiley.com/go/caldwell Inclusion of modern genomic proteomic technologies such as the yeast two hybrid system and RNAi Detailed experimental protocols and easy access to instructional materials This discovery based laboratory course provides excellent practical training for those pursuing career paths in biomedicine

pharmacy and biotechnology **Methods in Tau Cell Biology**, 2017-08-29 Methods in Tau Cell Biology Volume 141 the latest release in the Methods in Cell Biology series looks at methods involved in tau cell biology Edited by leaders in the field this volume provides proven state of art techniques and relevant historical background and theory that aids researchers with tactics for efficient design and effective implementation of experimental methodologies Topics of note in this updated volume include sections on Recombinant tau expression and purification In vitro MT dynamics and MT ends Methods related to investigating tau structure and MT bundling Neurite outgrowth and retraction and Methods related to studying tau fragmentation Covers sections on Tau Cell Biology Written by experts in the field of cell biology Includes cutting edge materials **Handbook of Mutagenicity Test Procedures** B.J. Kilbey, M. Legator, W. Nicholson, C. Ramel, 2012-12-02 The compilation of this book was prompted by the necessity of a bench volume which could provide the necessary background information on materials experimental design pitfalls and difficulties in order to perform a particular test in an acceptable way with a minimal need for additional expert help This Second Edition updates this information providing a comprehensive bench guide methods known to be reliable a broad spectrum of approaches tips to avoid pitfalls when using unfamiliar techniques data from population records safety aspects of mutagens and carcinogens basic statistical concepts for experiment design This on the bench methodological text provides the necessary information for most of the common assays for genetic damage in use The book includes methods which have been sufficiently used and tested to make their use reliable but also presents methods which are not widely used at present but which might prove most useful in screening for mutagenic effects **Iron Metabolism** Oleh Khalimonchuk, 2024-07-15 This detailed volume explores classical and cutting edge methods optimized and validated to analyze various aspects of iron metabolism from in vitro to multi organ level Opening with a section on basic iron metabolism methods the book continues with methods applicable to a variety of systems ranging from bacteria to cultured mammalian cells and tissues with a focus on cellular heme and iron sulfur cluster species as well as mitochondrial iron and its derivatives Written for the highly successful Methods in Molecular Biology series chapters include introductions to their respective topics lists of the necessary materials and reagents step by step and readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls Authoritative and practical Iron Metabolism Methods and Protocols serves as an ideal guide for researchers seeking to help in demystifying and boosting iron metabolism related research **Radical SAM Enzymes**, 2018-08-08 Radical SAM Enzymes Volume 606 the latest release in the Methods in Enzymology series highlights new advances in the field with this new volume presenting interesting chapters on the Characterization of the glycyl radical enzyme choline trimethylamine lyase and its radical S adenosylmethionine activating enzyme Diphathimide biosynthesis Radical SAM glycyl radical activating enzymes Radical SAM enzyme BioB in the biosynthesis of biotin Biogenesis of the PQQ cofactor Role of MoaAC in the biogenesis of the molybdenum cofactor Biosynthesis of the nitrogenase cofactor Bioinformatics of the radical SAM superfamily The involvement of SAM radical

enzymes in the biosynthesis of methanogenic coenzymes methanopterin and coenzyme F420 and more Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the Methods in Enzymology series Covers radical SAN enzymes in detail **Agrobacterium Protocols** Kan Wang,2008-02-04

Agrobacterium tumefaciens is a soil bacterium that for more than a century has been known as a pathogen causing the plant crown gall disease Unlike many other pathogens *Agrobacterium* has the ability to deliver DNA to plant cells and permanently alter the plant genome The discovery of this unique feature 30 years ago has provided plant scientists with a powerful tool to genetically transform plants for both basic research purposes and for agricultural development Compared to physical transformation methods such as particle bombardment or electroporation *Agrobacterium* mediated DNA delivery has a number of advantages One of the features is its propensity to generate a single or a low copy number of integrated transgenes with defined ends Integration of a single transgene copy into the plant genome is less likely to trigger gene silencing often associated with multiple gene insertions When the first edition of *Agrobacterium Protocols* was published in 1995 only a handful of plants could be routinely transformed using *Agrobacterium* *Agrobacterium* mediated transformation is now commonly used to introduce DNA into many plant species including monocotyledon crop species that were previously considered non hosts for *Agrobacterium* Most remarkable are recent developments indicating that *Agrobacterium* can also be used to deliver DNA to non plant species including bacteria fungi and even mammalian cells Laboratory Methods in

Cell Biology: Imaging ,2013-01-03 Cell biology spans among the widest diversity of methods in the biological sciences From physical chemistry to microscopy cells have given up with secrets only when the questions are asked in the right way This new volume of *Methods in Cell Biology* covers laboratory methods in cell biology and includes methods that are among the most important and elucidating in the discipline such as bioluminescent imaging of gene expressions confocal imaging and electron microscopy of bone Covers the most important laboratory methods in cell biology Chapters written by experts in their fields **Biotechnology Proteins to PCR** David W. Burden,Donald B. Whitney,2012-12-06 Methods for the Study

of Deep-Sea Sediments, Their Functioning and Biodiversity Roberto Danovaro,2009-12-21 For years scientists viewed the deep sea as calm quiet and undisturbed with marine species existing in an ecologically stable and uniform environment Recent discoveries have completely transformed that understanding and the deep sea is recognized as a complicated and dynamic environment with a rich diversity of marine species Carefully designe *Transgenic Animal Technology* Carl A. Pinkert,2012-12-02 A transgenic animal is one that is genetically modified to carry genes from another species Transgenic species can be raised to carry potentially useful genes from a variety of species While the topics of genetic engineering and cloning are controversial the reality is that these technologies offer tremendous benefits to society from offering a framework for developing and screening medical therapies to enhancing the safety and nutrition of the food we eat One potential application of research into transgenic animal technology is the creation of domestic animals genetically designed to express

a certain human disease and therefore serve as models for the study and treatment of human illnesses Although many mouse models of human diseases are available today such models in large domestic animals physiologically more similar to humans are sparse and critically needed Further research in this field will undoubtedly uncover many more direct and indirect benefits of this technology Transgenic animal technologies and the ability to introduce functional genes into animals have revolutionized our ability to address complex biomedical and biological questions This well illustrated handbook covers the technical aspects of gene transfer from molecular methods to whole animal considerations for important laboratory and domestic animal species It describes methodologies as employed by leading laboratories and is a key resource for researchers as well as a tool for training technicians and students This second edition incorporates updates on a variety of genetic engineering technologies ranging from microinjection and ES cell transfer to nuclear transfer in a broad range of animal modeling systems Contains a comprehensive collection of transgenic animal and gene transfer methods Discusses background and introduction to techniques and animal systems Teaches practical step by step protocols New section on analysis

Gene Function Analysis Michael F. Ochs, 2007-08-23 With the advent of high throughput technologies following completion of the human genome project and similar projects the number of genes of interest has expanded and the traditional methods for gene function analysis cannot achieve the throughput necessary for large scale exploration This book brings together a number of recently developed techniques for looking at gene function including computational biochemical and biological methods and protocols

Flower Development José Luis Riechmann, Cristina Ferrándiz, 2023-08-04 This second edition details new and updated protocols for experimental approaches that are currently used to study the formation of flowers Chapters guide readers on genetic methods phenotypic analyses genome wide experiments modeling and system wide approaches Written in the highly successful Methods in Molecular Biology series format chapters include introductions to their respective topics lists of the necessary materials and reagents step by step readily reproducible laboratory protocols and key tips on troubleshooting and avoiding known pitfalls Authoritative and cutting edge Flower Development Methods and Protocols Second Edition aims to be a useful and practical guide to new researchers and experts looking to expand their knowledge

Laboratory Manual for Biotechnology and Laboratory Science Lisa A. Seidman, Mary Ellen Kraus, Diana Lietzke Brandner, Jeanette Mowery, 2022-12-23 Provides the basic laboratory skills and knowledge to pursue a career in biotechnology Written by four biotechnology instructors with over 20 years of teaching experience it incorporates instruction exercises and laboratory activities that the authors have been using and perfecting for years These exercises and activities help students understand the fundamentals of working in a biotechnology laboratory Building skills through an organized and systematic presentation of materials procedures and tasks the manual explores overarching themes that relate to all biotechnology workplaces including forensic clinical quality control environmental and other testing laboratories Features Provides clear instructions and step by step exercises to make learning the material easier for students There are Lab Notes

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DNA Science David A. Micklos, Greg A. Freyer, 1990 This laboratory text combines the theory practice and applications of recombinant DNA technology into one articulated package Unlike super texts that can only be sampled by even the most ambitious instructor or student DNA Science is designed to be read from cover to cover The eight text chapters are written in a semi journalistic style and adopt a historical perspective to explain where DNA science has come from and where it is going Combining the unique perspectives of both a research biologist and a science writer the topical treatment integrates up to the minute examples drawn directly from the research literature Extensively tested by thousands of high school and college teachers and students in 25 states and Canada the ten laboratory experiments cover the basic techniques of gene isolation and analysis The experiments engender systematic repetition to build student confidence and mastery of techniques Extensive prelab notes at the beginning of each experiment explain how to schedule and prepare and flowcharts and icons make the protocols easy to follow The laboratory course is completely supported by quality assured Carolina Biological Supply Company products from bulk reagents to reusable reagent systems to single use kits satisfying a range of teaching applications Truly a first course in recombinant DNA technology the laboratory sequence presupposes no prior experience on the part of the instructor or student Structured to follow directly from an introduction to principles of biology the experiments are equally appropriate for the advanced high school student and the beginning college student The book can be used as the first course in a molecular biology sequence be integrated as a genetics DNA structure component of a general biology course or be used as a unit within a microbiology or genetics course The text is suitable for introducing recombinant DNA in science and society courses

Methods in Biotechnology Seung-Beom Hong, M. Bazlur Rashid, Lory Z. Santiago-Vázquez, 2016-08-01 As rapid advances in biotechnology occur there is a need for a pedagogical tool to aid current students and laboratory professionals in biotechnological methods Methods in Biotechnology is an invaluable resource for those students and professionals Methods in Biotechnology engages the reader by implementing an active learning approach provided advanced study questions as well as pre and post lab questions for each lab protocol These self directed study sections encourage the reader to not just perform experiments but to engage with the material on a higher level utilizing critical thinking and troubleshooting skills This text is broken into three sections based on level Methods in Biotechnology Advanced Methods in Biotechnology I and Advanced Methods in Biotechnology II Each section contains 14 22 lab exercises with instructor notes in appendices as well as an answer guide as a part of the book companion site This text will be an excellent resource for both students and laboratory professionals in the biotechnology field

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Channels, 2017-08-17 A Structure Function Toolbox for Membrane Transporter and Channels Volume 594 a new release in the Methods in Enzymology series continues the legacy of this premier serial with quality chapters authored by leaders in the field New chapters in the updated serial include Cryo EM on membrane proteins embedded in nanodiscs Solid Supported membrane based electrophysiology on membrane transporters and channels Saposin lipoprotein scaffolds for structure determination of membrane transporters and channels Single molecule FRET on transporters Dynamics of channels and transporters investigated by NMR Structure function studies on channels and transporters and a section on MemStar a new GFP based expression and purification system for transporters and channels Continues the legacy of this premier serial with quality chapters authored by leaders in the field Covers membrane transporter and channels [Nucleic Acid Hybridization](#)

P. M. Gilmartin, 1996-03-19 This quick reference guide covers the fundamental techniques and practical tips needed to undertake a variety of nucleic acid hybridization methods

Optogenetics Armin Baumschlager, 2024-12-26 This volume explores the latest advancements in the field of optogenetics and how it uses cellular light sensing components and genetic engineering to control proteins and biological processes The book chapters are organized into four parts Part One focuses on intracellular optogenetic components for control of specific cell functions Part Two looks at externally supplied light regulators that do not require genetic manipulation of target cells Part Three highlights optogenetic control of organelles and Part Four introduces technical tools required for light induction in optogenetic experiments as well as a method for performing and analyzing optogenetic cell cell adhesion Written in the highly successful Methods in Molecular Biology series format chapters include introductions to their respective topics lists of the necessary materials and reagents step by step readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls Cutting edge and practical Optogenetics Methods and Protocols is a valuable resource to help researchers understand and apply the concepts of optogenetics and the underlying bioengineering principles and establish the required technical light illumination setups for administering light inputs and analysis of experimental outcomes

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