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# Colloidal Coomassie Blue Stain: Recipe and Protocol

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Jeremy Kamil

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## ABSTRACT

I learned this Colloidal Coomassie Blue staining recipe and protocol when I was a postdoc at Harvard Medical School. Rumor has it, a postdoc reverse engineered a “safe stain” from a leading commercial supplier. It’s a really great recipe: much more sensitive, faster, and easier to use than traditional methanol based coomassie staining protocols you see in Cold Spring Harbor books, like by Maniatis etc. Saves a ton of money compared to buying this stuff from commercial vendors. It is downstream compatible with mass spec and most other things you’d want to do with gel slices.

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# Coomassie Blue Recipe

**James William Kenny**



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*Current Protocols Essential Laboratory Techniques* Sean R. Gallagher, Emily A. Wiley, 2012-03-19 The latest title from the acclaimed Current Protocols series *Current Protocols Essential Laboratory Techniques 2e* provides the new researcher with the skills and understanding of the fundamental laboratory procedures necessary to run successful experiments solve problems and become a productive member of the modern life science laboratory From covering the basic skills such as measurement preparation of reagents and use of basic instrumentation to the more advanced techniques such as blotting chromatography and real time PCR this book will serve as a practical reference manual for any life science researcher Written by a combination of distinguished investigators and outstanding faculty *Current Protocols Essential Laboratory Techniques 2e* is the cornerstone on which the beginning scientist can develop the skills for a successful research career

**Protein-protein Interactions** Erica Golemis, Peter David Adams, 2005 Reflecting the various advances in the field this book provides comprehensive coverage of protein protein interactions It presents a collection of the technical and theoretical issues involved in the study of protein associations including biophysical approaches It also offers a collection of computational methods for analyzing interactions

**Electrophoresis** Budin Michov, 2020-09-07 Electrophoresis is a straightforward but informative analytical method used in biochemistry biology and medicine This book combines a detailed discussion of theory and technical application with an elaborate section on troubleshooting and problem solving in electrophoresis Therefore the book is an important guide for both students and scientists

**American Dyestuff Reporter**, 1922 **Isozyme Electrophoresis Used for Classifying Highland Bentgrass (*Agrostis* Sp.).** Steven Maurer, 1980

**Laboratory Methods in Microbiology and Molecular Biology** Richa Salwan, Vivek Sharma, 2023-06-13 *Laboratory Methods in Microbiology and Molecular Biology* describes various microbiological biochemical and molecular methods employed for the characterization identification and analysis of actinomycetes bacteria and fungi The book details general guidelines expectations and responsibilities for good lab practices and consists of chapters that covers basic microbiological physiological biochemical and molecular aspects as well as in silico analysis using various bioinformatic tools Other topics in the book include how to make solutions microscopy and imaging of microorganisms sero diagnostics and basic concepts of phylogeny physiology biotechnology soil food and environmental microbiology while working in laboratory *Laboratory Methods in Microbiology and Molecular Biology* is an informative update to current practices and future perspectives for the field of microbial biotechnology It aims to facilitate professors researchers and graduate students in monitoring the precision and accuracy of the qualitative and quantitative methods in their research Involves various procedures in diverse disciplines from microbiology to genetics molecular biology and biochemistry Lists the principles and facts underlying practical applications of bacteria and fungi which have prospects in various technologies Includes the questions how and why as an explanation for novice students and researchers to modify protocols Facilitates students teachers and researchers to monitor

the precision and accuracy of their qualitative and quantitative methods practically      **Gel Electrophoresis of Proteins** B. D. Hames, 1998-10-01 This new edition of Gel Electrophoresis of Proteins is a completely new text with eight of the ten chapters written by new authors It presents the best methods hints and tips for core procedures such as one dimensional polyacrylamide gel electrophoresis isoelectric focusing two dimensional gel electrophoresis preparative gel electrophoresis and peptide mapping complete with the latest refinements and updates of the procedures In addition it describes major new techniques which have come to the fore since the previous edition Thus there are chapters on capillary gel electrophoresis sequence analysis of gel resolved proteins fluorophore labelled saccharide electrophoresis and analysis of protein protein interactions by gel electrophoresis One thing has not changed The emphasis is still on describing the best methods in step by step detail with copious advice to ensure that each method works first time in the reader s hands The first two editions of Gel Electrophoresis of Proteins A Practical Approach each gained a strong reputation as easy to follow laboratory manuals written by experienced researchers for researchers The methods were presented in a clear accessible format and had been fully tested to ensure success in the lab This new edition will strengthen the reputation of the book still further It is a must have for all those who currently use gel electrophoresis or who plan to do so      Methods for General and Molecular Bacteriology Philipp Gerhardt, 1994 A major revision of the classic manual from ASM This is the long awaited revision of ASM s extremely popular title Manual of Methods for General Bacteriology 1981 The goal of the book remains to provide a compact but thorough compendium of reliable methods of working with many different kinds of bacteria in laboratory settings New to this edition is the recognition of the dramatic role of molecular biological techniques and their impact on bacteriology      *Short Protocols in Molecular Biology* Frederick M. Ausubel, 2002-11-05 Expanded to 2 volumes Short Protocols in Molecular Biology Fifth Edition provides condensed descriptions of more than 700 methods compiled from Current Protocols in Molecular Biology Includes new chapters on chromatin assembly and analysis nucleic acid arrays generation and use of combinatorial libraries discovery and analysis of differentially expressed genes in single cells and cell populations The book is specifically designed to provide quick access to step by step instructions for the essential methods used in every major area of molecular biological research Short Protocols in Molecular Biology Fifth Edition is an authoritative and indispensable guide for all life scientists researchers and students at the graduate and advanced undergraduate level      *The Hypoxanthine-Guanine-Xanthine Phosphoribosyltransferase in Trichomonas Foetus* Marian Susan Chin, 1995      **The Dyer, Textile Printer, Bleacher and Finisher** , 1958      Food Biochemistry and Food Processing Benjamin K. Simpson, Leo M. L. Nollet, Fidel Toldrá, Soottawat Benjakul, Gopinadhan Paliyath, Y. H. Hui, 2012-04-11 The biochemistry of food is the foundation on which the research and development advances in food biotechnology are built In Food Biochemistry and Food Processing Second Edition the editors have brought together more than fifty acclaimed academicians and industry professionals from around the world to create this fully revised and updated edition This book is

an indispensable reference and text on food biochemistry and the ever increasing developments in the biotechnology of food processing Beginning with sections on the essential principles of food biochemistry enzymology and food processing the book then takes the reader on commodity by commodity discussions of biochemistry of raw materials and product processing Chapters in this second edition have been revised to include safety considerations and the chemical changes induced by processing in the biomolecules of the selected foodstuffs This edition also includes a new section on health and functional foods as well as ten new chapters including those on thermally and minimally processed foods separation technology in food processing and food allergens Food Biochemistry and Food Processing second edition fully develops and explains the biochemical aspects of food processing and brings together timely and relevant topics in food science and technology in one package This book is an invaluable reference tool for professional food scientists researchers and technologists in the food industry as well as faculty and students in food science food technology and food engineering programs The Editor Dr Benjamin K Simpson Department of Food Science and Agricultural Chemistry McGill University Quebec Canada Associate Editors Professor Leo Nollet Department of Applied Engineering Sciences Hogeschool Ghent Belgium Professor Fidel Toldr Instituto de Agroquímica y Tecnología de Alimentos CSIC Valencia Spain Professor Soottawat Benjakul Department of Food Technology Prince of Songkla University Songkhla Thailand Professor Gopinadhan Paliyath Department of Plant Agriculture University of Guelph Ontario Canada Dr Y H Hui Consultant to the Food Industry West Sacramento California USA

*The American Biology Teacher*, 2000      **Short Protocols in Cell Biology** Juan S. Bonifacino, 2004-02-10 Providing condensed descriptions of more than 500 methods compiled from Current Protocols in Cell Biology this text thoroughly explores cell biology in an easily accessible hands on format Short Protocols in Cell Biology is an authoritative and indispensable guide for all life scientists and researchers who are looking to improve their understanding of cell biology methods Key Features Designed to provide quick access to step by step instructions for the essential methods used in every major area of cell biological research Contains methods from every aspect of cell biology everything needed to study the basic structure and functions of cells at both the molecular and cellular levels      The Dyer, Calico Printer, Bleacher, Finisher & Textile Review, 1925      Textile Recorder, 1925      **Enzymology Labfax** Paul C. Engel, 1996 A comprehensive compendium of data on enzyme kinetics measurement of enzyme activity physical factors which affect activity and patterns of enzyme inhibition Coverage includes information on co enzymes and analogs and the analysis of ligand binding and metalloenzyme reactivity

**Protein Topography of the Escherichia Coli 50S Ribosomal Subunit Inferred from Crosslinking with 2-iminothiolane** James William Kenny, 1983      **Strategies for Protein Purification and Characterization** Daniel R. Marshak, 1996 Cold Spring Harbor Laboratory Softcover manual of fundamental procedures commonly used in protein biochemistry for researchers Plastic comb spiral binding      *Molecular Cloning* Joseph Sambrook, Tom Maniatis, 1989

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