# Algal Culturing Techniques

*From Academic Press*
*ebooks | Download PDF | *ePub | DOC | audiobook*




#697479 in Books Academic Press 2005-02-04Original language:EnglishPDF # 1 11.12 x 1.30 x 8.86l, 4.81 #File Name: 0120884267596 pagesAcademic Press | File size: 27.Mb

**From Academic Press : Algal Culturing Techniques** before purchasing it in order to gage whether or not it would be worth my time, and all praised Algal Culturing Techniques:

4 of 4 people found the following review helpful. agal culturing techniquesBy Daniel Steckthis looks and feels like a college class book. loaded with solid raw information. this book starts you from the beginning with some early culturing techniques and moves right on. its loaded with recipies and reffrences for more research. not too many pictures but what pictures there are, they're in color. a very good book for the money.0 of 0 people found the following review helpful. which is well broken down and easily searchable for specific fields of the scienceBy John HannaBased in Australia, this book was one of the primary knowledge banks used at my university for algal culturing methods and techniques. It has a vast array of topics, which is well broken down and easily searchable for specific fields of the science. It contains everything from liquid culture techniques and agar plates through to the isolation of

axenic/monoculture strains. It also contains many different culture medium recipe's for the culture of both freshwater and marine algal species. For those fascinated by algae, it also contains a comprehensive background of where techniques originated and how the field has changed over the years. This background was informative to know how and why principles have changed over the years, which you simply can't find in a standard journal article.Overall the book covers so many different areas of algal culture, that you probably wouldn't need anything else to have a solid understanding of all the techniques and background required to culture algae. It is an extremely valuable resource and has been happily used by many PhD students and honours students at my university. I would recommend this to anyone who needs to learn anything about algal culturing techniques - 5 Stars without question!4 of 4 people found the following review helpful. Algae Culturing TechniquesBy Fussy CustomerThis is a well written, comprehensive, authoritative reference on Algae culture. It is a structured compilation of landmark works by the major researchers in phycology -- globally and historically -- with excellent bibliographical data throughout. A valuable volume, well worth the cost.A. Maxwell Much, Ph.D.

Algal Culturing Techniques is a comprehensive reference on all aspects of the isolation and cultivation of marine and freshwater algae, including seaweeds. It is divided into seven parts that cover history, media preparation, isolation and purification techniques, mass culturing techniques, cell counting and growth measurement techniques, and reviews on topics and applications of algal culture techniques for environmental investigations. Algal Culturing Techniques was developed to serve as both a new textbook and key reference for phycologists and others studying aquatic systems, aquaculture and environmental sciences. Students of algal ecology, marine botany, marine phycology, and microbial ecology will enjoy the hands-on methodology for culturing a variety of algae from fresh and marine waters. Researchers in industry, such as aquaculture, pharmaceutical, foodstuffs, and biotechnology companies will find an authoritative and comprehensive reference.Sponsored by the Phycological Society of AmericaFeatures color photographs and illustrations throughoutDescribes culturing methods ranging from the test tube to outdoor ponds and coastal seaweed farmsDetails isolation techniques ranging from traditional micropipette to automated flow cytometeric methodsIncludes purification, growth, maintenance, and cryopreservation techniquesHighlights methods for estimating algal populations, growth rates, isolating and measuring algal pigments, and detecting and culturing algal virusesFeatures a comprehensive appendix of nearly 50 algal culture medium recipesIncludes a glossary of phycological terms

"It has been worth the wait. Andersen and the authors have done a tremendous job bringing together many old and new methods in highly readable and easy to follow order...In addition to the older standard methods, it adds many new ones, from automated isolation and counting of algal cells to use of cultures as a way to prevent extinctions of threatened species...the methods chapters, e.g., Andersen and Kawachi on microalgal isolation techniques are very detailed, providing plain, easy to follow, often step-by-step instructions, complete with supplies needed and even sources, on how to do particular tasks...Bob Andersen, the authors, and PSA are to be commended for bringing together so much detailed information in one place. The book is beautifully produced...It definitely needs to be in the lab and/or office of everyone doing research on algae...I highly recommend it." --R.A. Horner, University of Washington, School of Oceanography, Seattle, U.S.A., in HARMFUL ALGAE (2006)"This comprehensive book is a necessity for research scientists who use and maintain algal cultures." --CHOICE (October 2005)From the Back CoverAlgal Culturing Techniques presents a comprehensive reference on all aspects of the isolation and cultivation of marine and freshwater algae. Researchers and others studying limnology, oceanography, phycology, or microbial ecology will enjoy the hand-on methodology for culturing a variety of algae from fresh and marine environments. Researchers in the industry, such as aquaculture, pharmaceuticals, foodstuffs, and biotechnology will find an authoritative and comprehensive reference. Key Features Describes culturing methods ranging from the test tube to outdoor ponds and coastal seaweed farmsDetails isolation techniques ranging from traditional micropipette to automated flow cytometeric methodsIncludes purification, growth, maintenance, and cryopreservation techniquesHighlights methods for estimating algal populations, growth rates, isolating and measuring algal pigments, and detecting and culturing algal virusesFeatures a comprehensive appendix of nearly 50 algal culture medium recipes About the Editor: Robert A. Andersen serves as Director of the Provasoli-Guillard National Center for Culture of Marine Phytoplankton and Bigelow Laboratory for Ocean Sciences, West Boothbay Harbor, Maine, USA.