

LABORATORY EXERCISE #3. Detection of genetically modified food products by gel electrophoresis

Introduction

PCR products of differing lengths can be separated from each other based on size by an analytical method called gel electrophoresis. In this method charged macromolecules (such as DNA, RNA or proteins) migrate through a porous gel typically made from agarose (polysaccharide polymer derived from sea weed) or polyacrylamide when an electrical current is applied. The DNA sample is loaded into a well within the gel and placed near the anode (negative charge). As DNA has a very high negative charge due to the presence of the ionized phosphate groups on its backbone, it will migrate away from the negative anode toward the positively charged cathode as electrophoresis takes place. During the migration, smaller DNA fragments will pass through the gel pores more easily and thus migrate through the gel faster. Larger DNA molecules take longer to get through the pores and will migrate slower. The separated DNA "bands" or fragments can be visualized within the gel by staining with **ethidium bromide**. This dye intercalates (inserts) itself into the DNA and will fluoresces under ultraviolet light. In other words, DNA fragments will appear as fluorescent bands in the gel when exposed to UV light (Fig 1).

Concept check: If you compared two DNA fragments, one of 200-base pairs (bp) and the other of 1000 bp, which fragment will appear lower on the gel/have migrated faster?

Q: During gel electrophoresis, DNA is separated based on what two properties?

A: Size and charge

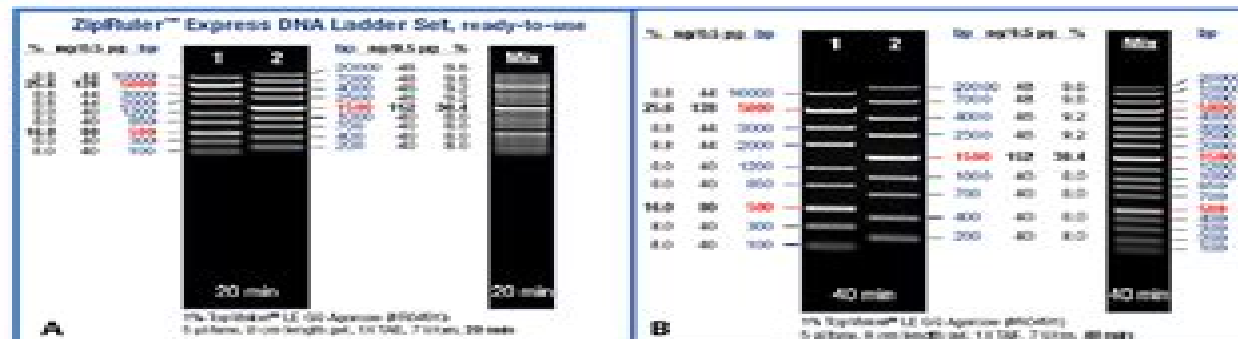


Figure 1. DNA fragments of known size are separated on an agarose gel for 20 min (A) or 40 min (B). By comparing the results, you can see how at 20 min, the DNA fragments are not well separated but by 40 min, the individually sized fragments are well separated and the size is easily determined. Figure adapted from Biogen.

Gmo Lab Instructor Manual

Harvey Blatt



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Instructor's Manual for Food Analysis S. Suzanne Nielsen, 2012-12-06 The first and second editions of Food Analysis were widely adopted for teaching the subject of Food Analysis and were found useful in the food industry The third edition has been revised and updated for the same intended use and is being published with an accompanying laboratory manual Food Analysis Third Edition has a general information section that includes governmental regulations related to food analysis sampling and data handling as background chapters The major sections of the book contain chapters on compositional analysis and on chemical properties and characteristics of foods A new chapter is included on agricultural biotechnology GMO methods of analysis Large sections on spectroscopy chromatography and physical properties are included All topics covered contain information on the basic principles procedures advantages limitation and applications This book is ideal for undergraduate courses in food analysis and also is an invaluable reference to professions in the food industry **Food**

Toxicants Analysis Yolanda Picó, 2007-02-07 Food Toxicants Analysis covers different aspects from the field of analytical food toxicology including emerging analytical techniques and applications to detect food allergens genetically modified organisms and novel ingredients including those of functional foods Focus will be on natural toxins in food plants and animals cancer modulating substances microbial toxins in foods algal fungal and bacterial and all groups of contaminants i e pesticides persistent organic pollutants metals packaging materials hormones and animal drug residues The first section describes the current status of the regulatory framework including the key principles of the EU food law food safety and the main mechanisms of enforcement The second section addresses validation and quality assurance in food toxicants analysis and comprises a general discussion on the use of risk analysis in establishing priorities the selection and quality control of available analytical techniques The third section addresses new issues in food toxicant analysis including food allergens and genetically modified organisms GMOs The fourth section covers the analysis of organic food toxicants step by step guide to the use of food analysis techniques eighteen chapters covering emerging fields in food toxicants analysis assesses the latest techniques in the field of inorganic analysis **America's Food** Harvey Blatt, 2011-02-25 The complete story of what we don't

know and what we should know about American food production and its effect on health and the environment We don't think much about how food gets to our tables or what had to happen to fill our supermarket's produce section with perfectly round red tomatoes and its meat counter with slabs of beautifully marbled steak We don't realize that the meat in one fast food hamburger may come from a thousand different cattle raised in five different countries In fact most of us have a fairly abstract understanding of what happens on a farm In America's Food Harvey Blatt gives us the specifics He tells us for example that a third of the fruits and vegetables grown are discarded for purely aesthetic reasons that the artificial fertilizers used to enrich our depleted soil contain poisonous heavy metals that chickens who stand all day on wire in cages choose feed with pain killing drugs over feed without them and that the average American eats his or her body weight in food additives

each year Blatt also asks us to think about the consequences of eating food so far removed from agriculture why unhealthy food is cheap why there is an International Federation of Competitive Eating what we don't want to know about how animals raised for meat live die and are butchered whether people are even designed to be carnivorous and why there is hunger when food production has increased so dramatically America's Food describes the production of all types of food in the United States and the environmental and health problems associated with each After taking us on a tour of the American food system not only the basic food groups but soil grain farming organic food genetically modified food food processing and diet Blatt reminds us that we aren't powerless Once we know the facts about food in America we can change things by the choices we make as consumers as voters and as ethical human beings

Your Body Can Talk, Revised 2nd Edition

Susan Levy, D.C., 2014-09-29 This book about the art and application of Clinical Kinesiology introduces the energetic system that links mind and body It shows how the body can talk and therefore be used as a diagnostic tool and to determine which healing approach will best suit an individual Clinical Kinesiology allows us to interpret this new body talk This method of muscle testing reads the body's innate wisdom when asked a question or presented with a stimulus the muscles respond clearly either strongly or weakly This system which expedites the application of acupuncture also helps realign the body's energy imbalances Readers will find specific methods of fighting disease that emphasize the dangers of unnecessary drugs antibiotics and immunization and the need for a fortified immune system especially through natural foods Other topics include rebuilding the body's ecology after an overgrowth of unhealthy bacteria or Candidiasis how to maintain the integrity of the energy system through minimizing exposure to unhealthy electromagnetic fields or EMFs optimal health for woman and issues of men's health New material in this 2nd edition includes an extensive chapter on children's health which addresses pregnancy birthing procedures and breastfeeding and illustrates a road map for giving your children and children yet to come the best potential for optimal health

Genetically Engineered Organisms Deborah K. Letourneau, Beth Elpern Burrows, 2001-09-26 Genetic engineering suggests new avenues for constructing useful products but it also poses hazards to the health of the environment and the public Delineating those hazards is complicated difficult and important at every level of risk assessment and risk management decision making Risk assessment and risk management may be further complicated

Food Analysis Suzanne Nielsen, 2003-04-30 This book provides information on the techniques needed to analyze foods in laboratory experiments All topics covered include information on the basic principles procedures advantages limitations and applications This book is ideal for undergraduate courses in food analysis and is also an invaluable reference to professionals in the food industry General information is provided on regulations standards labeling sampling and data handling as background for chapters on specific methods to determine the chemical composition and characteristics of foods Large expanded sections on spectroscopy and chromatography are also included Other methods and instrumentation such as thermal analysis selective electrodes enzymes and immunoassays are covered from the perspective of their use in the

chemical analysis of foods A helpful Instructor s Manual is available to adopting professors *Growing for Market* ,2003

Caron's Directory of the City of Louisville ,1903 Beer in Health and Disease Prevention Victor R Preedy,2011-04-28

Beer in Health and Disease Prevention is the single comprehensive volume needed to understand beer and beer related science Presenting both the concerns and problems of beer consumption as well as the emerging evidence of benefit this book offers a balanced view of today s findings and the potential of tomorrow s research Just as wine in moderation has been proposed to promote health research is showing that beer and the ingredients in beer can have similar impact on improving health and in some instances preventing disease This book addresses the impact of beer and beer ingredients on cancers cardiovascular disease anti oxidant benefits and other health related concerns It offers a holistic view from beer brewing to the isolation of beer related compounds It contains self contained chapters written by subject matter experts This book is recommended for scientists and researchers from a variety of fields and industries from beer production to health care professionals Winner of the 2009 Best Drinks and Health Book in the World Gourmand World Cookbook Awards The most comprehensive coverage of the broad range of topics related to the role of beer and beer ingredients in health Addresses the impact of beer and beer ingredients on cancers cardiovascular disease anti oxidant benefits and other health related concerns Presents a holistic view from beer brewing to the isolation of beer related compounds Appropriate for scientists and researchers from a variety of fields and industries from beer production to health care professionals Consistent organization of each chapter provides easy access to key points and summaries Self contained chapters written by subject matter experts

British Books in Print ,1986

Unveiling the Magic of Words: A Review of "**Gmo Lab Instructor Manual**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Gmo Lab Instructor Manual**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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