Name: _____

Applications of Molecular Biology Lab Worksheet

Copy and Paste the Gels and tables into lab report.

Figure 1. Gel 1. Presence of GMO Gene in Corn, Peaches, Sweet Potato, and Potato

Table 1: Gel 1 lane legend and results

LANE	1	2	3A	4B	5C	6D	7E	8F	9G	10H
SAMPLE	ladder	NT 1	Corn		Peaches		Sweet Potato		Potato	
			GMO	Plant	GMO	Plant	GMO	Plant	GMO	Plant
Results:			neg	neg	neg	neg	neg	neg	neg	neg

NT = no DNA template, negative control
GMO primer = indicates presence of a promoter for a transgene
Plant primer = chloroplast gene

Gmo Lab Packet Answers

Huangqi Zhang

Gmo Lab Packet Answers:

The Wholesome Cook Martyna Angell,2015-10-01 Refined sugar free wholefood recipes for the way we eat now Paleo friendly Vegetarian and vegan options Dairy free options Gluten free options for every recipe Real food recipe The Wholesome Cook encapsulates the modern way to eat waving goodbye to fake foods in our diets Martyna s recipes are not about fad diets or quick fixes these are recipes which will inspire a lifestyle change The real food lessons we learn from The Wholesome Cook are lifelong and life changing Hetty McKinnon owner of Arthur Street Kitchen author of Community Salad recipes from Arthur Street Kitchen These days we all want to eat the kind of food that doesn t compromise on flavour or health clean wholefoods fresh fruit and vegetables and pasture raised meat But with so many diet and lifestyle choices available and food intolerances and sensitivities on the rise foods that work well for one person may not necessarily work well for others Taking a unique approach to this problem award winning blogger and talented cook Martyna Angell brings you The Wholesome Cook more than 170 brand new recipes that cater to common dietary restrictions and choices as well as your palate These delicious wholefood recipes all have gluten and refined sugar free options Many are paleo friendly vegetarian vegan dairy free and low FODMAP This flexibility will help you to navigate today s landscape of over processed foods and adopt a healthy diet that works for you and those around you Martyna draws on her background as a health coach regular columnist for Nourish magazine and cookbook recipe writer to give you stylish recipes that turn favourite junk foods such as pizza nachos burgers and cake into healthy wholefood classics that nourish your body The Wholesome Cook is the go to guide for anyone pursuing a creative approach to food and a healthy balanced lifestyle *Backpacker* ,2007-09 Backpacker brings the outdoors straight to the reader s doorstep inspiring and enabling them to go more places and enjoy nature more often The authority on active adventure Backpacker is the world s first GPS enabled magazine and the only magazine whose editors personally test the hiking trails camping gear and survival tips they publish Backpacker s Editors Choice Awards an industry honor recognizing design feature and product innovation has become the gold standard against which all other outdoor industry awards are measured *How to Reliably Test for GMOs* Jana Žel,Mojca Milavec,Dany Morisset,Damien Plan,Guy Van den Eede,Kristina Gruden,2011-10-26 The detection of genetically modified organisms GMOs is becoming very complex with new GMOs approved and unapproved constantly entering world markets Traceability and labelling of GMOs is defined in regulations worldwide demanding accurate and reliable testing to support the requirements of legislation This Brief provides the current state of the art on all key topics involved in GMO testing and is a source of detailed practical information for laboratories Special focus is given to qualitative and quantitative real time PCR analysis relevant to all areas where detection and identification rely on nucleic acid based methods The following topics important for testing laboratories are also discussed organization of the laboratory focusing on aspects of the quality system and methods for testing validation and verification of methods and measurement uncertainty The Brief also discusses the new challenges

of GMOs and novel modified organisms using new technologies and the possible solutions for GMO detection including bioinformatics tools Finally legislation on GMOs and sources of information on GMOs are provided which are relevant not only to testing laboratories but to anyone interested in GMOs The authors of this Brief have many years of experience in GMO testing development of real time PCR methods implementation of quality system requirements validations and verification of methods and measurement uncertainty The National Institute of Biology is a highly qualified research laboratory and a National Reference Laboratory which also performs routine analyses of food feed and seed The Institute for Health and Consumer Protection of the European Union Joint Research Centre has extensive knowledge and experience of GMO detection It hosts the European Union Reference Laboratory for GM Food and Feed in addition to chairing the European Network of GMO Laboratories *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 Testing and Analysis of GMO-containing Foods and Feed Salah E. O. Mahgoub,Leo M.L. Nollet,2019-01-15 An increasing number of genetically modified organisms GMOs continues to be produced every day In response to the concerns raised by the development of GMOs and their incorporation in foods and feed guidelines and regulations to govern and control the use of GMOs and their products have been enacted These regulations necessitated the design of methods to detect and analyse the presence of GMOs or their products in agriculture produce food and feed production chains Design of techniques and instruments that would detect identify and quantify GM ingredients in food and feed will help inspection authorities to relay reliable information to consumers who might be concerned about the presence of GM ingredients Information generated by detection of GMOs in food and feed would be helpful for setting regulations that govern the use of GM components as well as for labeling purposes Qualitative detection methods of GM DNA sequences in foods and feeds have evolved fast during the past few years There is continuous need for the development of more advanced multi detection systems and for periodic updates of the databases related to these systems Testing and Analysis of GMO containing Foods and Feed presents updates and comprehensive views on the various methods and techniques in use today for the detection identification and quantification of GMOs in foods and feed The eleven book chapters cover recent

developments on sample preparation techniques immunoassays methods and the PCR technique used in GMO analysis the use of biosensors in relation to GMO analysis the application of nucleic acid microarrays for the detection of GMOs validation and standardization methods for GMO testing in addition to the type of reference material and reference methods used in GMO testing and analysis Some of the ISO standards designed for identifying and detecting the presence of GM material in foods are also presented in the book *Training Manual on GMO Quantification* ,2014 The content of this manual is based on the training course that was organised on the premises of the European Commission Joint Research Centre Institute for Reference Materials and Measurements Geel BE at the end of 2013 The training manual complements the training course that was intended to improve the quality of measurement results obtained when quantifying genetically modified organisms GMO in food and feed Both the training course and this manual were developed in line with the current EU GMO legislation The manual is addressed to laboratory managers and practitioners in analytical laboratories who perform GM quantification measurements and use reference materials for calibration quality control and method validation including in house verification It is also intended for analysts who need to assess measurement uncertainties as required by EC No 1829 2003 1 EC No 619 2011 2 and ISO IEC 17025 2005 This training document has been written by JRC IRMM upon request of the European Union Reference Laboratory for Genetically Modified Food and Feed EURL GMFF to further improve the reporting of National Reference Laboratories NRLs nominated under Regulation EC No 882 2004 and official GMO control laboratories within the EU This manual is organised in four chapters covering the proper calibration of PCR methods the estimation of measurement uncertainty the establishment of metrological traceability of a measurement result and the way to prove the trueness of measurement results The training manual is a didactic support of a previous guidance document that outlines issues related to the estimation of measurement uncertainty MU in the GMO sector The training manual is also in line with the European technical guidance document for the flexible scope accreditation of laboratories quantifying GMOs that is intended for laboratories that are acquiring or are holding a flexible scope of accreditation according to ISO IEC 17025

Genetically Engineered Foods Armando Mills,2019-08-13 Genetically modified foods are foods derived from genetically modified organisms have had specific changes introduced into their DNA by genetic engineering techniques The main aim of genetically modified crops is to produce a food that is able to survive even if any harmful chemicals or pesticides or herbicides are sprayed Genetically engineered foods have had their DNA changed using genes from other plants or animals Scientists take the gene for a desired trait in one plant or animal and they insert that gene into a cell of another plant or animal Genetic engineering can be done with plants animals or bacteria and other very small organisms Genetic engineering allows scientists to move desired genes from one plant or animal into another Genes can also be moved from an animal to a plant or vice versa Genetic engineering also helps speed up the process of creating new foods with desired traits Genetically modified material sounds a little bit like science fiction territory but in reality much of what we eat on a daily basis is a

genetically modified organism Whether or not these modified foods are actually healthy is still up for debate and many times you don t even know that you are buying something genetically modified The book will be of help to researcher in the field of agriculture crop improvement biotechnology etc It will also be helpful to teachers and students for better understanding of the subject **Instructor's Manual for Food Analysis** S Suzanne Nielsen,2003-10-31 **Guidance document on measurement uncertainty for GMO testing laboratories** S. Trapmann,M. Burns,H. Broll,R. Macarthur,R. K. S. Wood,Jana Žel,2007 Guidance Document on Measurement Uncertainty for GMO Testing Laboratories ,2009 This technical report outlines the technical issues related to the estimation of measurement uncertainty MU involved in the GMO sector In particular it gives guidance to GMO testing laboratories how to estimate the analytical variability of quantitative analytical results obtained by real time PCR This guidance document has been written on request of the European Network of GMO Laboratories ENGL as a follow up of a workshop on Measurement Uncertainty in the GMO sector organised by the Institute for Reference Materials and Measurements IRMM Geel Belgium and held on 05 07 2005 It is recognised that in order to be able to judge if an analytical results exceeds a threshold the MU must be estimated and reported together with the measurement result Enforcement Authorities shall therefore estimate the MU associated with an analytical result and use it to decide whether an analytical result falls within the specification of food and feed control The value obtained by subtracting the expanded uncertainty from the reported concentration is used to assess compliance Only if this value is greater than the legal threshold it is sure beyond reasonable doubt that the sample concentration of the analyte is beyond what is permissible Two selected approaches for the estimation of MU are presented in detail references to alternative approaches are given The first approach presented in detail is using data from collaborative trial in combination with in house quality control data for the estimation of MU Prerequisites for the use of such collaborative trial data are outlined In case no suitable collaborative trial data are available an alternative approach using data from within laboratory samples for the estimation of MU is presented *Definition of Minimum Performance Requirements for Analytical Methods of GMO Testing* ,2023 The document Definition of Minimum Performance Requirements for analytical methods of GMO testing ENGL 2015 is a guidance developed by the ENGL and the EU Reference Laboratory for Genetically Modified Food and Feed EURL GMFF It supports the development and validation of methods for GMO analysis submitted in the frame of applications for EU market authorisation of GMO products as well as those to be used in the official control of food and feed The guidance document provides definitions and requirements to assess the performance of the methods developed for the detection and quantification of GMOs based on real time PCR More recently technologies like digital PCR were successfully applied in various fields for the quantification of nucleic acid molecules including GMOs Moreover GM animals and products developed by means of so called new genomic techniques Broothaerts et al 2021 are being released on the market and present additional challenges from the analytical viewpoint Therefore ENGL experts have extended the original method performance

parameters for guiding users in the development and validation of digital PCR methods for GMO analysis While the developments in the fields of GM animals and new genomic techniques are still evolving in addition to the Minimum Performance Requirements guidelines also specific recommendations for methods for the detection and quantification of organisms with short genomic alterations and of GM animals are provided Given that developments in the fields of GM animals and new genomic techniques are ongoing these recommendations may be further elaborated in the future

Guidance Document on Measurement Uncertainty for GMO Testing Laboratories ,2020 This document provides guidance on how to estimate measurement uncertainty MU and supports the enforcement of EU food and feed labelling legislation in the GMO sector Measurement uncertainty is a parameter which is always associated with the result of a measurement and characterises the dispersion of values attributed to that result This measurement uncertainty needs to be estimated when compliance is investigated The first version of this guidance document was written on request of the European Network of GMO Laboratories ENGL as a follow up to a workshop on MU in the GMO sector organised by the European Commission Joint Research Centre and was published in 2007 It was updated in 2009 The current version takes into account current EU legislation availability of certified reference materials CRMs and validated quantification methods and the need for control laboratories which carry out measurements for the enforcement of EU legislation to be accredited according to ISO IEC 17025 This guidance document contributes towards a harmonised approach for how EU Member States check compliance of food and feed samples with EU legislation Other documents e g the flexible scope accreditation document refer to this document concerning aspects related to MU Guidelines for Sample Preparation Procedures in GMO Analysis Gilbert Berben,Diana Charels,Tina Demšar,Rupert Hochegger,Elena Nardini,Roberta Onori,Manuela Schulze,Patrick Philipp,Thomas Weber,2014 This document aims at providing guidelines for a correct sample preparation in GMO analysis on food feed seed plants and propagating material samples It has been developed by the European Network of GMO Laboratories ENGL specifically by the ENGL working group sample preparation procedures upon a mandate of the ENGL steering committee The structure of the document is based on that of an existing ISO standard ISO 6498 2012 dealing with sample preparation for feed starting from this the procedures were adapted to the needs of GMO detection and the scope concerning matrices was widen to food feed and seeds These guidelines cover the key steps of the sample preparation i e the size of the laboratory sample the mass reduction techniques as well as techniques for comminution and mixing considerations about the test portion are included and some performance tests to be applied at different steps of the process are provided While sample preparation falling after sampling and before analytical testing for GMOs has suffered from a lack of guidance and harmonization this document provides detailed and practical hints on this important step thus contributing to foster testing harmonisation **European Network of GMO Laboratories Working Group "Seed Testing" (WG-ST) Working Group Report** ,2015 Testing seed lots for the unintended presence of genetically modified GM seeds is carried out

in European Union Member States MS The aim of the testing of seeds for genetically modified organisms GMOs is to test whether GMOs are present in non GM seed lots Splitting samples of seeds taken from lots into subsamples testing for the presence of GM seeds in each subsample and counting the number of positive subsamples is a suitable method for estimating the proportion of GM seeds impurities with a specified probability The detection of lower proportions of GM seeds in lots requires the analysis of larger seed samples and larger amounts of DNA This entails more effort and cost to detect lower quantities of GM seed A decision to form a Working Group WG for seed testing WGST was taken during the 26th ENGL Steering Committee meeting The WGST was formed to study the relation between the impurity of GM seed that could be detected and the cost of the analyses required to detect the unintended presence of GM seed in conventional seed lots The WGST was tasked with producing a report on the issue for the approval of the ENGL Steering Committee The report would then form the basis of ENGL EURL advice to the Commission on testing seed samples for the unintended presence of GM seeds for the most important crops The WG elaborated a statistical model to describe the relation between the impurity level of GMO seeds in seed lots that will with a high probability be reliably detected by test plans the limit of detection and the cost of the test plans needed to achieve this and effort devoted to the plan **Guidelines for Sample Preparation Procedures in GMO Analysis** Gilbert Berben,Institute for Health and Consumer Protection,Diana Charels,Tina Demšar,Rupert Hochegger,Elena Nardini,Roberta Onori,Manuela Schulze,Patrick Philipp,Thomas Weber,2014 This document aims at providing guidelines for a correct sample preparation in GMO analysis on food feed seed plants and propagating material samples It has been developed by the European Network of GMO Laboratories ENGL specifically by the ENGL working group sample preparation procedures upon a mandate of the ENGL steering committee The structure of the document is based on that of an existing ISO standard ISO 6498 2012 dealing with sample preparation for feed starting from this the procedures were adapted to the needs of GMO detection and the scope concerning matrices was widen to food feed and seeds These guidelines cover the key steps of the sample preparation i e the size of the laboratory sample the mass reduction techniques as well as techniques for comminution and mixing considerations about the test portion are included and some performance tests to be applied at different steps of the process are provided While sample preparation falling after sampling and before analytical testing for GMOs has suffered from a lack of guidance and harmonization this document provides detailed and practical hints on this important step thus contributing to foster testing harmonisation **Mendel in the Kitchen** Nancy Marie Brown,Nina V. Fedoroff,2004-09-30 While European restaurants race to footnote menus reassuring concerned gourmands that no genetically modified ingredients were used in the preparation of their food starving populations around the world eagerly await the next harvest of scientifically improved crops Mendel in the Kitchen provides a clear and balanced picture of this tangled tricky and very timely topic Any farmer you talk to could tell you that we ve been playing with the genetic makeup of our food for millennia carefully coaxing nature to do our bidding The practice officially

dates back to Gregor Mendel who was not a renowned scientist but a 19th century Augustinian monk Mendel spent many hours toiling in his garden testing and cultivating more than 28 000 pea plants selectively determining very specific characteristics of the peas that were produced ultimately giving birth to the idea of heredity and the now very common practice of artificially modifying our food But as science takes the helm steering common field practices into the laboratory the world is now keenly aware of how adept we have become at tinkering with nature which in turn has produced a variety of questions Are genetically modified foods really safe Will the foods ultimately make us sick perhaps in ways we can t even imagine Isn t it genuinely dangerous to change the nature of nature itself Nina Fedoroff a leading geneticist and recognized expert in biotechnology answers these questions and more Addressing the fear and mistrust that is rapidly spreading Federoff and her co author science writer Nancy Brown weave a narrative rich in history technology and science to dispel myths and misunderstandings In the end Fedoroff arues plant biotechnology can help us to become better stewards of the earth while permitting us to feed ourselves and generations of children to come Indeed this new approach to agriculture holds the promise of being the most environmentally conservative way to increase our food supply **Testing of Genetically Modified Organisms in Foods** Farid E. Ahmed,2004 Control of GMO Content in Seed and Feed Nordic Council of Ministers,2004 Great efforts are made to develop and validate methods of analysis of Genetically Modified Organism GMO contents in seed food and feed in order to be able to comply with the new EU regulations on genetically modified food and feed and on traceability and labeling of genetically modified organisms This report describes some of the current possibilities and limitations regarding analysis of genetically modified contents in seed and feed This final part of this report contains an overview of the current GMO analysis situation regarding seed and feed in the individual Nordic countries

Detection of Food and Feed Plant Products Obtained by Targeted Mutagenesis and Cisgenesis ,2023 The current EU legislation on GMOs and GM food and feed requires analytical testing to support traceability of these products on the market The European Network of GMO Laboratories has reviewed the implications of the analytical requirements when they are applied to plant products developed with the use of new genomic techniques i e targeted mutagenesis and cisgenesis This review concluded that analytical testing to support traceability is not considered feasible for all products obtained by targeted mutagenesis and cisgenesis both due to technical restrictions and because of implementation issues Testing of Genetically Modified Organisms in Foods Farid Ahmed,2004-04-07 Examine several methods of testing for genetically modified organisms and the reasons behind their strict regulation Testing of Genetically Modified Organisms in Foods is the first study of the screening methods and tools utilized for determining the presence of genetically modified organisms GMOs in food products Leading experts in science medicine and government agencies examine the significant research and clinical developments in bio engineered agriculture to bring you an accurate risk assessment of GMOs in relation to human consumption economics and the environment This book focuses on three high profile biotechnological commercial aspects of

GMO inclusion in the world market insect resistance herbicide tolerance and virus resistance It also identifies new GM food crops that are in the laboratory and may soon be on your table Testing of Genetically Modified Organisms in Foods looks at GMOs from the perspectives of both sides of the globe the European Union and the United States Department of Agriculture who each have their own set of rules and opinions regarding safety issues and marketing of bioengineered food products This book looks at the government standards of scientific testing for GMOs and several chapters specifically analyze current screening methods This book also explores the impact of GMOs on farming agricultural economy pesticide control and world famine Testing of Genetically Modified Organisms in Foods brings you current information on the risks and benefits of agricultural biotechnology to people and the environment the regulations and protocols of testing for GMOs that have been adopted by European and United States agencies scientific techniques that test for GMOs including certified reference materials CRMs and matrix based protein based and DNA based methods of testing the limitations of today s GMO screening methods and the benefits of alternatives that may be used in the future the long term risks associated with gene flow of GMOs to other plants specifically focusing on liabilities regulatory climates and intellectual property rights Testing of Genetically Modified Organisms in Foods is generously enhanced with figures tables and graphs as well as references at the end of every chapter The commercialization of agricultural biotechnology makes this text essential for scientists planners and students of food agriculture and environmental science Government officials and activists will find this book invaluable in debating current issues of agricultural biotechnology and food safety

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