

## NUTRITION AND FOOD SCIENCE

# Consumer acceptability of chocolate chip cookies using applesauce as a fat (butter) substitute

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### Abstract

Replacing fat in baked goods with fruit or vegetable base ingredients like applesauce would develop aid in the effort of overall reduction of fat intake and increase consumption of fruits and vegetables. The objective of this study was to determine the consumer acceptability of chocolate chip cookies prepared by replacing butter with applesauce. Three recipes were included: 1- Control made according to Nestlé Toll House recipe, 2- Half replacement (HR): made by replacing 50% of butter with applesauce, 3- Full replacement (FR): made by replacing 100% of butter with applesauce. Nestlé Toll House recipe was employed in this study and Mott's applesauce was used for fat replacement. The 9 point hedonic rating scale system was used to evaluate the acceptability of the following sensory characteristics: appearance, texture, color, chewiness, sweetness, moistness, flavor, aftertaste and overall acceptability. Sensory evaluation was completed at North Carolina Agricultural and Technical State University on 35 food science students and employees. Our results showed that HR was very much acceptable, control was between very much acceptable and moderately acceptable, and FR was between moderately acceptable and neither acceptable nor unacceptable for all sensory characteristics. No significant ( $P>0.05$ ) differences were reported in the acceptability of control and HR, whereas FR showed significantly ( $P<0.05$ ) lower acceptability. Among all panelists ( $n = 35$ ): 12, 16, and 7 panelists have chosen control, HR, and FR respectively as the most preferred and most worth buying cookie. In conclusion, applesauce could be an acceptable fat substitute in baked goods, thereby adding health benefits and nutritional value to baked products, and also contributing to the reduction of obesity.

**Key words:** Applesauce, Fat, Acceptability, Preferences, Sensory characteristic

### Introduction

Overweight and obesity are epidemic in many parts of the world. Many countries have shown dramatic increases in overweight and obesity while no developed country is quite as heavy as the United States (Philipson and Posner, 2008). In the United States, 68.3% of adults older than 20 years and 48.1% of adolescents and children younger than 20 years are obese or overweight as of 2007-2008 (Shields et al., 2011). The United States has experienced a significant increase in obesity and overweight between 1980 and 2011 (CDC, 2011; Shields et al., 2011). These increases in obesity and overweight were associated with many chronic diseases including type 2 diabetes, coronary heart disease, stroke, and high blood pressure (CDC,

2011). Much evidence suggests that the increases in obesity and overweight were related to the increases in fat and calorie intake (Cutler et al., 2003; Neuhouser et al., 2004; Philipson and Posner, 2008). Fat is an essential nutrient for human and one of the main food ingredients that play an important role in our food. Ultimately, a high fat diet may lead to an increased risk for numerous health problems such as obesity, cancer, cardiovascular disease, and type 2 diabetes (Cutler et al., 2003; Kafatos and Codrington, 2000; NIH, 2000; Philipson and Posner, 2008). To prevent negative health effects of fat intake, the National Institutes of Health has recommended that dietary fat be reduced from the current 35 – 45% of the total energy intake in most Western diets to below 25 – 30% (NIH, 2000). Therefore, during the last decade, consumers' demands in the United States and other western countries for low fat, reduced fat, and fat-free diets have increased substantially (CDC, 2011; Shields et al., 2011).

To improve the weight status and overall health, many researchers have focused on reducing

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# Consumer Acceptability Of Chocolate Chip Cookies Using

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## **Consumer Acceptability Of Chocolate Chip Cookies Using:**

**Sensory Evaluation Techniques** Gail Vance Civile, B. Thomas Carr, Katie E. Osdoba, 2024-09-16 The sixth edition of this classic text brings sensory evaluation to life for new students and experienced professionals alike A full array of sensory methods is covered including descriptive techniques discrimination testing and consumer research plus guidance on test design statistical analysis and how to translate results into insights for actionable decisions Like its predecessors Sensory Evaluation Techniques Sixth Edition gives a clear and concise presentation of practical solutions accepted methods and standard practices in addition to advanced techniques What's new in the sixth edition An expanded chapter on Sensory Physiology including recent research on individual differences in perception A thorough discussion of Thurstonian theory and its application to discrimination methods including the Tetrad Test New sections on technology in sensory evaluation including a discussion of software options for data collection Improved updated case studies to aid learning comprehension Updated appendices for Spectrum Method attributes references and scales Updated references Online supplemental content Sensory Evaluation Techniques remains a practical relevant and flexible resource providing how to information for a wide variety of users in industry government and academia who need the most current information to conduct effective sensory research It also supplies students with the necessary theoretical background in sensory evaluation methods applications and interpretations

**The Use of Detergent Fractionated, Edible Beef Tallow in Food Systems** Cynthia Lynn DeFouw, 1981 *Chocolate in Health and Nutrition* Ronald Ross Watson, Victor R. Preedy, Sherma Zibadi, 2012-08-04 *Chocolate in Health and Nutrition* represents the first comprehensive compilation of the newest data on the actions of the flavonoids and microorganisms associated with the beneficial effects of chocolate This unique text provides practical data driven resources based upon the totality of the evidence to help the reader understand the basics treatments and preventive strategies that are involved in the understanding of the role chocolate may play in healthy individuals as well as those with cardiovascular disease diabetes or neurocognitive declines Of equal importance critical issues that involve patient concerns such as dental caries and food preferences in children potential effects on weight gain addiction and withdrawal are included in well referenced informative chapters The latest research on the role of chocolate in normal health areas including mood pain and weight management cardiovascular disease and related conditions are presented *Chocolate in Health and Nutrition* provides health professionals in many areas of research and practice with the most up to date well referenced and comprehensive volume on the current state of the science and medical uses of chocolate Pulses A.

Manickavasagan, Praveena Thirunathan, 2020-05-25 World health authorities recommend people maximize their protein intake through vegetable sources such as pulses and reduce protein intake from animal sources Increasing vegetable protein intake has been shown to be positively associated with the reduction of both cardiovascular disease related mortality and all cause mortality Pulse consumption has been shown to improve satiety and metabolism of glucose and lipids due to their high

protein and fiber content which makes their consumption ideal for preventing and managing obesity In recent years there has been increasing demand for pulses and pulse based products in developed countries Several large scale collaborative research projects on pulse products have been initiated by government agencies Similarly established multinational food companies have developed pulse product units Pulses Processing and Product Development fulfills the need for a comprehensive book on processing and products of pulses The book addresses a specific pulse with each chapter to meet a wide range of audiences from undergraduate students to consumers Sensory Evaluation of Food Harry T. Lawless, Hildegard Heymann, 2010-09-27 The field of sensory science has grown exponentially since the publication of the previous version of this work Fifteen years ago the journal Food Quality and Preference was fairly new Now it holds an eminent position as a venue for research on sensory test methods among many other topics Hundreds of articles relevant to sensory testing have appeared in that and in other journals such as the Journal of Sensory Studies Knowledge of the intricate cellular processes in chemoreception as well as their genetic basis has undergone nothing less than a revolution culminating in the award of the Nobel Prize to Buck and Axel in 2004 for their discovery of the olfactory receptor gene super family Advances in statistical methodology have accelerated as well Sensometrics meetings are now vigorous and well attended annual events Ideas like Thurstonian modeling were not widely embraced 15 years ago but now seem to be part of the everyday thought process of many sensory scientists And yet some things stay the same Sensory testing will always involve human participants Humans are tough measuring instruments to work with They come with varying degrees of acumen training experiences differing genetic equipment sensory capabilities and of course different preferences Human foibles and their associated error variance will continue to place a limitation on sensory tests and actionable results Reducing controlling partitioning and explaining error variance are all at the heart of good test methods and practices **Chemistry and Industry** ,1987 Agriculture, rural development, and related agencies appropriations for 1984 United States. Congress. House. Committee on Appropriations. Subcommittee on Agriculture, Rural Development, and Related Agencies,1983 Research in Fisheries University of Washington. College of Fisheries,1985 *Journal of the American Dietetic Association* ,2003 **Aids to Efficient Packaging Operations** American Management Association,1953 *Annual Report* National Biscuit Company,1937 **MC. The Manufacturing Confectioner** ,1994 **Consumers Index to Product Evaluations and Information Sources** ,1992 **Consumers Index to Product Evaluations and Information Sources** Pierian Press,1996-03 **Ecolabels and the Greening of the Food Market** ,2003 Milling & Baking News ,2007-12 Snack Food ,1992 **Jewelry Consumption** Thitiporn Sanguanpiyapan,2007 *Agribusiness & Applied Economics Report* ,2003 **Bakers Weekly** ,1954

## Decoding **Consumer Acceptability Of Chocolate Chip Cookies Using**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Consumer Acceptability Of Chocolate Chip Cookies Using**," a mesmerizing literary creation penned with a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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we remember a memorial day responsive reading - Jul 21 2022

web what as we celebrate memorial day let us take a few minutes as a church and community to honor those who paid the ultimate price for our freedom themes memorial day remembrance service military honor freedom who leader congregation when present wear props none why john 15 13 how

[memorial day litany for church memorialdaysnet](#) - Jun 19 2022

web a christian memorial day prayer gracious god on this memorial day we pray for those who courageously laid down their lives for the cause of freedom the message for remembrance day memorial day is the message that lies at the core of our faith this is my commandment that you

**litany for memorial day static1 squarespace com** - Oct 24 2022

web change their hearts and minds give them a passion for peace bring an end to the pain suffering injustice and violence in our world celebrant we know dear lord that ultimate peace will not come until your kingdom is here in all of its fullness nevertheless we pray for a foretaste of the future

**when death is swallowed up a service of remembrance** - May 31 2023

web jun 1 2005 the opening litany lord you have been our dwelling place throughout all generations before the mountains were born or you brought forth the earth and the world from everlasting to everlasting you are god a thousand years in your sight are like a day that has just gone by or like a watch in the night teach us to number our

[memorial day worship and prayer resources discipleship](#) - Oct 04 2023

web memorial day worship and prayer resources memorial day the last monday in may is a day on the civil calendar for remembering and honoring those who have given their lives in battle the day is also known as decoration day for the custom of placing flags at the graves of the patriotic dead

**pastor don s blog litany for memorial day** - Apr 17 2022

web may 25 2012 litany for memorial day these are power point slides saved as jpgs each background image was set at 50 percent transparency the text is from the book of worship for united states forces 1974 arlington national cemetery national cemetery of the pacific the punchbowl photo by donald sensing

[liturgical resources for memorial day diocese of newark](#) - Aug 02 2023

web title liturgical resources for memorial day author kittyk created date 5 25 2011 2 02 35 pm

*litany prayer memorial service orientation sutd edu sg* - Aug 22 2022

web may 1st 2018 click here to see a veteran s day litany which can be appropriate for memorial day your memorial day liturgy will be watson parish for our memorial service memorial day prayers for our military troops and our nation september 28th 2017 take solace in this collection of memorial day prayers we remember those

*call to worship worshipwell* - Jan 27 2023

web worship well on litany of remembrance memorial day 2020 jeff pommerening on litany of remembrance memorial day 2020 worship well on litany of remembrance memorial day 2020 rev richard w truss on litany of remembrance memorial day 2020 worship well on litany of remembrance memorial day 2020

*a litany of remembrance for memorial day weekend followed facebook - Sep 22 2022*

web a litany of remembrance for memorial day weekend followed by a moment of silence for those gratefully remembered on memorial day concluding with the playing of taps leader lift up your hearts people we lift them up before the lord l lord hear our prayers of remembrance

*liturgical year prayers catholic culture - Dec 26 2022*

web it may be used on all souls day memorial day on the anniversary of the death or burial of a particular deceased person or when a gravestone or cemetery monument is erected

*litany of remembrance memorial day 2020 worshipwell - Sep 03 2023*

web may 18 2020 litany of remembrance memorial day 2020 based on john 15 in the gospel of john we hear the story of how jesus in the final hours before his death taught his followers some essential truths this is part of what he taught them this is my commandment that you love one another as i have loved you

**model for a litany of grateful remembrance discipleship - Feb 25 2023**

web you may not need a memorial service that is about loss but perhaps instead about gratitude this model for a litany of grateful remembrance was developed for use during worship on september 11 2011 the tenth anniversary of terrorist attacks on the united states that killed nearly 3 000 people

*benediction worshipwell - Nov 24 2022*

web below is a call and response prayer that could be used as a call to worship pastoral prayer benediction etc the text is taken from various mlk quotes and the congregational response is from king s i have a dream speech after the prophet amos one we now raise the voice of the prophet martin luther king whose voice we still need so

**lisa s liturgies memorial day litany google sites - Mar 29 2023**

web memorial day litany reading major michael davis o donnell 1 january 1970 dak to vietnam listed on february 7 1978 as killed in action march 24 1970 if you are able save for them a

*worship service theme memorial day spiritual eldercare - Mar 17 2022*

web please pray with me as we open our time together opening prayer great and loving god we ask that your holy spirit bless our time together and refresh us with your presence in the midst of a world full of trouble and strife we thank you for watching over us guiding us and as we confess our sins for forgiving us

*invitation hospitality worshipwell - May 19 2022*

web litany for regathering posted by worship well on jun 29 2021 in invitation hospitality prayers litanies slideshow special sundays services 0 comments after almost 17 months of worshipping outside of our church sanctuary due to covid 19 we regathered inside once again on 7 4

**prayers litanies worshipwell** - Jul 01 2023

web no one has greater love than this to lay down one s life for one s friends on this sunday before memorial day we pause to remember the self giving love of jesus christ that he modeled for us and which has been imitated in the self giving love of those men and women who died in read more