

## 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

Received 03 February 2012; Revised 08 June 2012; Accepted 17 June 2012; Published Online 02 December 2012

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# Consumer Acceptability Of Chocolate Chip Cookies Using

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## **Table of Contents Consumer Acceptability Of Chocolate Chip Cookies Using**

1. Understanding the eBook Consumer Acceptability Of Chocolate Chip Cookies Using
  - The Rise of Digital Reading Consumer Acceptability Of Chocolate Chip Cookies Using
  - Advantages of eBooks Over Traditional Books
2. Identifying Consumer Acceptability Of Chocolate Chip Cookies Using
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in a Consumer Acceptability Of Chocolate Chip Cookies Using
  - User-Friendly Interface
4. Exploring eBook Recommendations from Consumer Acceptability Of Chocolate Chip Cookies Using
  - Personalized Recommendations
  - Consumer Acceptability Of Chocolate Chip Cookies Using User Reviews and Ratings

- Consumer Acceptability Of Chocolate Chip Cookies Using and Bestseller Lists
- 5. Accessing Consumer Acceptability Of Chocolate Chip Cookies Using Free and Paid eBooks
  - Consumer Acceptability Of Chocolate Chip Cookies Using Public Domain eBooks
  - Consumer Acceptability Of Chocolate Chip Cookies Using eBook Subscription Services
  - Consumer Acceptability Of Chocolate Chip Cookies Using Budget-Friendly Options
- 6. Navigating Consumer Acceptability Of Chocolate Chip Cookies Using eBook Formats
  - ePub, PDF, MOBI, and More
  - Consumer Acceptability Of Chocolate Chip Cookies Using Compatibility with Devices
  - Consumer Acceptability Of Chocolate Chip Cookies Using Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Consumer Acceptability Of Chocolate Chip Cookies Using
  - Highlighting and Note-Taking Consumer Acceptability Of Chocolate Chip Cookies Using
  - Interactive Elements Consumer Acceptability Of Chocolate Chip Cookies Using
- 8. Staying Engaged with Consumer Acceptability Of Chocolate Chip Cookies Using
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Consumer Acceptability Of Chocolate Chip Cookies Using
- 9. Balancing eBooks and Physical Books Consumer Acceptability Of Chocolate Chip Cookies Using
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Consumer Acceptability Of Chocolate Chip Cookies Using
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Consumer Acceptability Of Chocolate Chip Cookies Using
  - Setting Reading Goals Consumer Acceptability Of Chocolate Chip Cookies Using
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Consumer Acceptability Of Chocolate Chip Cookies Using
  - Fact-Checking eBook Content of Consumer Acceptability Of Chocolate Chip Cookies Using
  - Distinguishing Credible Sources

13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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