

## Recovery of used frying sunflower oil with sugar cane industry waste and hot water

Rehab F. M. Ali · A. M. El Anany

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**Abstract** The main goal of the current investigation was to use sugar cane bagasse ash (SCBA) and to compare its adsorption efficiency with Magnesol XL as synthetic adsorbents to regenerate the quality of used frying sunflower oil. In addition, to evaluate the effect of water washing process on the quality of used frying oil and the treated oil. The metal patterns of sugar cane bagasse ash and Magnesol XL were determined. Some physical and chemical properties of unused, used frying and used-treated sunflower oil were determined. Sunflower oil sample was heated at 180 °C±5 °C, then frozen French fries potato were fried every 30 min, during a continuous period of 20 h. Oil samples were taken every 4 h. The filter aids were added individually to the used frying oil at levels 1, 2 and 3 % (w / v), then mechanically stirred for 60 min at 105 °C. The results indicate that all the filter aids under study were characterized by high levels of Si and variable levels of other minerals. The highest level of Si was recorded for sugar cane bagasse ash (SCBA) was 76.79 wt. %. Frying process caused significant ( $P \leq 0.05$ ) increases in physico-chemical properties of sunflower oil. The treatments of used frying sunflower oil with different levels of sugar cane bagasse ash and Magnesol XL caused significant ( $P \leq 0.05$ ) increase in the quality of treated oil, however the soap content of treated oil was increased, therefore, the effect of water washing process on the quality of used frying and used-treated sunflower oil was evaluated. The values of soap and Total polar compounds after water

treatment were about 4.62 and 7.27 times as low as that for sunflower oil treated with 3 % sugar cane bagasse ash (SCBA). The results of the present study indicate that filtration treatment with different levels of sugar cane bagasse ash (SCBA) regenerated the quality of used sunflower oil and possess higher adsorbing effects than the synthetic filter aid ( Magnesol XL ) in removing oil oxidation products. The current study also recommends using hot water treatment for improving the quality of used frying oil.

**Keywords** Sugarcane · Industrial waste · Frying · Ash · Adsorbent · Quality and water washing

### Introduction

Deep-fat/oil frying is extensively used in food processing both industrially and at home, and fried potato products are one of its largest applications. Deep-fat frying is one of the oldest and most popular food preparation methods. As reported by Gamayo and Moreira (2002), the economy of commercial deep fat frying has been estimated to be \$6 billion year<sup>-1</sup> in the United States and at least twice that amount for the rest of the world. Fried foods have a desirable flavor, color and crispy texture, which make deep-fat fried foods very popular with consumers (Boskou et al. 2006). Deep-fat frying is a process of immersing food in hot oil with a contact among oil, air and food at a high temperature of 150 to 190 °C (Yamsaengsung and Moreira 2002). The simultaneous heat and mass transfer of oil, food and air during deep-fat frying produces the desirable quality of fried foods. In the presence of oxygen, moisture, trace elements and free radicals, physicochemical reactions such as thermoxidation, hydrolysis, polymerization, isomerization or cyclization take

R. F. M. Ali  
Department of Biochemistry, Faculty of Agriculture,  
Cairo University,  
12613, Giza, Egypt

A. M. El Anany (✉)  
Special Food & Nutrition Department,  
Food Technology Research Institute,  
Agricultural Research Center,  
Giza, Egypt  
e-mail: anyan\_amaury@yahoo.com

# Recovery Of Used Frying Sunflower Oil With Sugar Cane

**M Woodhall**



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## Enjoying the Tune of Appearance: An Psychological Symphony within **Recovery Of Used Frying Sunflower Oil With Sugar Cane**

In a world eaten by screens and the ceaseless chatter of fast communication, the melodic splendor and emotional symphony developed by the published term frequently disappear in to the backdrop, eclipsed by the relentless sound and distractions that permeate our lives. Nevertheless, situated within the pages of **Recovery Of Used Frying Sunflower Oil With Sugar Cane** an enchanting literary prize brimming with raw feelings, lies an immersive symphony waiting to be embraced. Crafted by an elegant musician of language, this fascinating masterpiece conducts readers on an emotional trip, well unraveling the hidden tunes and profound impact resonating within each cautiously crafted phrase. Within the depths of this poignant evaluation, we will investigate the book is main harmonies, analyze their enthralling writing fashion, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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### **Table of Contents Recovery Of Used Frying Sunflower Oil With Sugar Cane**

1. Understanding the eBook Recovery Of Used Frying Sunflower Oil With Sugar Cane
  - The Rise of Digital Reading Recovery Of Used Frying Sunflower Oil With Sugar Cane
  - Advantages of eBooks Over Traditional Books
2. Identifying Recovery Of Used Frying Sunflower Oil With Sugar Cane
  - 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 an Recovery Of Used Frying Sunflower Oil With Sugar Cane
  - User-Friendly Interface

4. Exploring eBook Recommendations from Recovery Of Used Frying Sunflower Oil With Sugar Cane
  - Personalized Recommendations
  - Recovery Of Used Frying Sunflower Oil With Sugar Cane User Reviews and Ratings
  - Recovery Of Used Frying Sunflower Oil With Sugar Cane and Bestseller Lists
5. Accessing Recovery Of Used Frying Sunflower Oil With Sugar Cane Free and Paid eBooks
  - Recovery Of Used Frying Sunflower Oil With Sugar Cane Public Domain eBooks
  - Recovery Of Used Frying Sunflower Oil With Sugar Cane eBook Subscription Services
  - Recovery Of Used Frying Sunflower Oil With Sugar Cane Budget-Friendly Options
6. Navigating Recovery Of Used Frying Sunflower Oil With Sugar Cane eBook Formats
  - ePub, PDF, MOBI, and More
  - Recovery Of Used Frying Sunflower Oil With Sugar Cane Compatibility with Devices
  - Recovery Of Used Frying Sunflower Oil With Sugar Cane Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Recovery Of Used Frying Sunflower Oil With Sugar Cane
  - Highlighting and Note-Taking Recovery Of Used Frying Sunflower Oil With Sugar Cane
  - Interactive Elements Recovery Of Used Frying Sunflower Oil With Sugar Cane
8. Staying Engaged with Recovery Of Used Frying Sunflower Oil With Sugar Cane
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Recovery Of Used Frying Sunflower Oil With Sugar Cane
9. Balancing eBooks and Physical Books Recovery Of Used Frying Sunflower Oil With Sugar Cane
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Recovery Of Used Frying Sunflower Oil With Sugar Cane
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Recovery Of Used Frying Sunflower Oil With Sugar Cane
  - Setting Reading Goals Recovery Of Used Frying Sunflower Oil With Sugar Cane
  - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Recovery Of Used Frying Sunflower Oil With Sugar Cane
  - Fact-Checking eBook Content of Recovery Of Used Frying Sunflower Oil With Sugar Cane
  - 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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