

ESTIMATION OF CAFFEINE CONTENT FROM SOFT AND ENERGYDRINKS OBTAINED FROM REGIONAL MARKET BY UV SPECTROSCOPY AND TLC.

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Abstract: This research is for to estimate the concentration of caffeine in soft drinks and energy drinks. In pure form, caffeine is a crystalline white powder moderately soluble in water and in a wide range of organic solvent such as ethanol, ethyl acetate, methanol, dichloromethane, chloroform etc. The caffeine is determined by using UV-Visible spectroscopy method using dichloromethane as an extracting solvent at 273nm wavelength. The method was found to be fast, simple, cost effective and environmental friendly for the determination of caffeine in soft drinks with satisfactory results. Caffeine is found in many beverages such as coffee, tea, energy drinks and colas which make the drinks addictive. Caffeine content in various energy drinks and beverage varies from 10 to 50 mg of caffeine per serving; however the US Food and Drug Administration (FDA, 2006) limits the maximum amount in carbonated beverages to 6 mg/oz. Large amount of caffeine consumption can cause physiological and psychiatric dependence. The aim of this study is to determine the concentration of caffeine in soft drinks and energy drinks brands available in India to ensure whether the caffeine concentration in the follow soft drinks & energy drinks as per FDA recommendation or not. And other purpose of this research is to find erosion property of caffeine by determining buffer capacity. This research also helps to identify purity of caffeine by TLC (By measuring RF value of sample compared with standard caffeine).

Keywords: Caffeine, soft drinks & energy drinks, UV Spectroscopy, TLC.

INTRODUCTION: Caffeine is a frequently used ingredient of energy drinks. It is added as a flavoring agent and to make the drinks addictive. Caffeine is a bitter white crystalline xanthine alkaloid that acts as a psychostimulant drug and a mild diuretic. It is an alkaloid of methylxanthine family. The methylxanthines caffeine (1,3,7-trimethylxanthine), theobromine (3,7-dimethylxanthine), and theophylline (1,3-dimethylxanthine) can be normally found in coffee beans, tea leaves, mate leaves and other kinds of plants. Caffeine serves as the ingredient in many carbonated soft drinks including colas, pepper-type beverages, and citrus beverages. Pure caffeine occurs as Odorless, white, foamy mess; glistening needles of powder. Caffeine has drawn more attention in the past decade due to its physiological effects beyond that of its stimulatory effect. The Food and Drug Administration (FDA) defines caffeine as a generally recognized as safe (GRAS) substance. However, FDA specifies that the maximum amount in carbonated beverages is limited to 0.002% (FDA, 2006).^{1,2}

STRUCTURE OF CAFFEINE:



Figure no.1 Structure of caffeine

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Ashurst, 2016-01-25 Soft drinks and fruit juices are produced in almost every country in the world and their availability is remarkable. From the largest cities to some of the remotest villages soft drinks are available in a variety of flavours and packaging. Over the last decade soft drinks and fruit juices have been the subject of criticism by the health community and there is considerable pressure on beverage manufacturers to reduce or even remove the sugar content of these products. Chemistry and Technology of Soft Drinks and Fruit Juices Third Edition provides an overview of the chemistry and technology of soft drinks and fruit juices covering ingredients, processing, microbiology, traceability and packaging as well as global market trends. This fully revised edition now includes chapters on topics that have become prominent in the industry since publication of the previous edition namely water use and treatment and microbiology technologies. The book is directed at graduates in food science, chemistry or microbiology entering production, quality control, new product development or marketing in the beverage industry or in companies supplying ingredients or packaging materials to the beverage industry.

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The Dhaka University Journal of Science, 2007

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Table of Contents Method Estimation Caffeine In Drinks Manual

1. Understanding the eBook Method Estimation Caffeine In Drinks Manual
 - The Rise of Digital Reading Method Estimation Caffeine In Drinks Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Method Estimation Caffeine In Drinks Manual
 - 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 Method Estimation Caffeine In Drinks Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Method Estimation Caffeine In Drinks Manual
 - Personalized Recommendations
 - Method Estimation Caffeine In Drinks Manual User Reviews and Ratings
 - Method Estimation Caffeine In Drinks Manual and Bestseller Lists
5. Accessing Method Estimation Caffeine In Drinks Manual Free and Paid eBooks
 - Method Estimation Caffeine In Drinks Manual Public Domain eBooks
 - Method Estimation Caffeine In Drinks Manual eBook Subscription Services
 - Method Estimation Caffeine In Drinks Manual Budget-Friendly Options
6. Navigating Method Estimation Caffeine In Drinks Manual eBook Formats

- ePub, PDF, MOBI, and More
- Method Estimation Caffeine In Drinks Manual Compatibility with Devices
- Method Estimation Caffeine In Drinks Manual Enhanced eBook Features

7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of Method Estimation Caffeine In Drinks Manual
- Highlighting and Note-Taking Method Estimation Caffeine In Drinks Manual
- Interactive Elements Method Estimation Caffeine In Drinks Manual

8. Staying Engaged with Method Estimation Caffeine In Drinks Manual

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Method Estimation Caffeine In Drinks Manual

9. Balancing eBooks and Physical Books Method Estimation Caffeine In Drinks Manual

- Benefits of a Digital Library
- Creating a Diverse Reading Collection Method Estimation Caffeine In Drinks Manual

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine Method Estimation Caffeine In Drinks Manual

- Setting Reading Goals Method Estimation Caffeine In Drinks Manual
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Method Estimation Caffeine In Drinks Manual

- Fact-Checking eBook Content of Method Estimation Caffeine In Drinks Manual
- 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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