

# ESTIMATION OF CAFFEINE CONTENT FROM SOFT AND ENERGY DRINKS 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 psychiatrically 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 in taste, white crystalline xanthines alkaloid that acts as a psychoactive stimulant 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 colas nuts, coffee beans, cocoa beans, tea leaves, mate leaves and other kinds of plants. Caffeine serves as an ingredient in many carbonated soft drinks including colas, pepper-type beverages, and citrus beverages. Pure caffeine occurs as odorless, white, fleecy masses, glistening needles of powder. Caffeine has drawn more attention in the past decades 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 0.02% (FDA, 2006).<sup>[1,2]</sup>

## STRUCTURE OF CAFFEINE:



Figure no.1 Structure of caffeine

# Method Estimation Caffeine In Drinks Manual

**JE Gale**



### **Method Estimation Caffeine In Drinks Manual:**

Nielsen's Food Analysis Laboratory Manual B. Pam Ismail, S. Suzanne Nielsen, 2024-06-20 This fourth edition laboratory manual was written to accompany Nielsen's Food Analysis Sixth Edition by the same authors. New to this fourth edition of the laboratory manual are three new chapters that complement both the textbook chapters and the laboratory exercises. The book again contains four introductory chapters that help prepare students for doing food analysis laboratory exercises. The 26 laboratory exercises in the manual cover 24 of the 35 chapters in the textbook. Many of the laboratory exercises have multiple sections to cover several methods of analysis for a particular food component or characteristic. Most of the laboratory exercises include the following: background reading assignment, objective, principle of method, chemicals, reagents, precautions, and waste disposal, supplies, equipment, procedure, data and calculations, questions, and references. This laboratory manual is ideal for the laboratory portion of undergraduate courses in food analysis.

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**Chemistry and Technology of Soft Drinks and Fruit Juices** Philip R. 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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## Unveiling the Energy of Verbal Beauty: An Psychological Sojourn through **Method Estimation Caffeine In Drinks Manual**

In a global inundated with displays and the cacophony of instantaneous transmission, the profound power and psychological resonance of verbal beauty often disappear in to obscurity, eclipsed by the regular onslaught of sound and distractions. Yet, set within the lyrical pages of **Method Estimation Caffeine In Drinks Manual**, a interesting perform of fictional splendor that pulses with natural thoughts, lies an remarkable trip waiting to be embarked upon. Written with a virtuoso wordsmith, that exciting opus books readers on an emotional odyssey, gently exposing the latent possible and profound influence stuck within the elaborate web of language. Within the heart-wrenching expanse with this evocative examination, we can embark upon an introspective exploration of the book is main subjects, dissect its fascinating writing style, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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web dec 18 2020 david loughery nin kaleme aldığı senaryodan yola çıkılarak çekilen filmin konusu ise şöyle fatale kadın bir dedektif tarafından bir cinayet planına dahil edilen evli bir adamın hikayesini konu ediyor gizemli bir kadın dedektif tek gecelik ilişki yaşadığı evli bir adamı manipüle devamı

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web mark a altman dan femme fatales isimli tv dizisinin başrollerinde tanit phoenix copley lilith charlie weber ace var 2 sezon ve 25 bölümden oluşan dizi hakkındaki tüm haber ve videolara bak

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web aug 9 2023 fatale first released in december 2020 follows the aftermath of a one night stand that sends a successful married man michael ealy s life into turmoil after the woman he cheated with hilary

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web synopsis derrick tyler is a former college basketball star who has gone on to build a successful sports management agency in los angeles with his best friend rafe grimes representing african american athletes his marriage to tracie a real estate agent is failing and he suspects she is having an affair rafe is also pressuring him to sell

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