

# 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).<sup>1,2</sup>

## STRUCTURE OF CAFFEINE:



Figure no.1 Structure of caffeine

# Method Estimation Caffeine In Drinks Manual

**Robert R. Redfield**

## **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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web experienced dietary aide skilled in washing dishes and sanitizing dishes carts and tables as well as daily food prep in hospitals hospice houses and nursing home settings strong interpersonal skills and technical proficiencies in dietary aide functions

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web dietary aide 03 2010 08 2016 phoenix az s poplar st medical dental vision life and short term disability paid days off

vacation sick holiday delivers patient meal trays and food items to floors and units in a timely manner maintain quality standards and sanitary food practices while preparing salads desserts cold plates

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web jun 15 2023 profile a dietary aide with entry level experience specializing in nutrition food preparation customer service and food safety adept at preparing meals for residents in elderly care facilities in accordance with nutrition guidelines and dietary needs

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web jan 26 2023 looking for an opportunity with lakeside nursing home as a dietary aide who can offer three years professional experience food handling certification and exceptional reasoning skills passionate and dedicated dietary aide with senior adolescent and pediatric experience seeks opportunity at skyline rehabilitation clinic

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web prepare a dietary aide resume that demonstrates your competency with our free template by dillon price monster contributor you understand the value of preparation and planning when creating a meal plan that meets your clients health needs finding a new job as a dietary aide requires those exact same skills

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web may 10 2023 jordan taylor tallahassee fl 850 555 0165 jordan taylor email com may 10 2023 dear hiring manager my name is jordan taylor and i m writing to express my interest in the open position of part time dietary aide at cascades park hospital

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web dietary aide resume examples samples serves meals timely and that are palatable and appetizing in appearance performs proper setting of tables set up meal trays food cards dining room etc serves resident meals in the dining room private dining room and delivers trays to resident s rooms apartments

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web dietary aide supervisor resume objective friendly and enthusiastic food and nutritionist with 5 years of specialization in patient diets and food service able to learn new tasks quickly and proficient in growing key customer relationships represent establishment with friendly professional demeanor at all times