

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 xanthenes alkaloid that acts as a psychoactive stimulant drug and a mild diuretic. It is an alkaloid of methylxanthine family. The methylxanthenes 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).^[1,2]

STRUCTURE OF CAFFEINE:



Figure no.1 Structure of caffeine

Method Estimation Caffeine In Drinks Manual

Brendan G. Carr



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Laboratory Test Handbook David S. Jacobs, 1996 Contains information about laboratory procedures including test name and synonyms patient care recommendations specimen requirements reference ranges interpretive information footnotes and references This ed has expanded coverage of laboratory assays related to molecular pathology and treatments of clinical virology and therapeutic drug monitoring Dutton's Orthopaedic: Examination, Evaluation and Intervention Fourth Edition Mark Dutton, 2016-07-29 Updated edition of the 1 orthopaedic evidence based textbook and reference guide A Doody's Core Title for 2019 Dutton's Orthopaedic Examination Evaluation and Intervention provides readers with a systematic logical approach to the evaluation and intervention of the orthopedic patient In this comprehensive and up to date fourth edition Dutton strikes the perfect balance in its coverage of examination and treatment The textbook emphasizes the appropriate use of manual techniques and therapeutic exercise while outlining the correct applications of electrotherapeutic and thermal modalities as adjuncts to the rehabilitative process The content reflects the consistent unified voice of a single author a prominent practicing therapist who delivers step by step guidance on the examination of each joint and region This in depth coverage leads you logically through systems review and differential diagnosis aided by decision making algorithms features new coverage on balance and concussions New videos on testing and method techniques are available on AccessPT if adopted Also this edition has added 10 15 board review questions per chapter and has updated chapters to reflect the latest research and treatment techniques

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web die tochter des berühmten gallischen hauptlings vercingetorix ist auf der flucht vor den römern sie flüchtet sich in das dorf der unbeugsamen gallier und so viel können wir schon jetzt verraten der pubertierende teenager sorgt für ordentlich wirbel in dem sonst so beschaulichen Örtchen lesenprobe geheimnisse der druiden zum album

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web die abenteuer von asterix die von rené goscinny und albert uderzo erschaffen wurden zählen zu den beliebtesten und erfolgreichsten comics überhaupt die witzigen geschichten des kleinen listigen kriegers gibt es auch als hörspiel spannende geschichten aus einer zeit in der fast ganz gallien von den römern besetzt war

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web die tochter des vercingetorix französischer originaltitel la fille de vercingétorix ist der 38 band der comicreihe asterix der am 24 oktober 2019 erschienen ist wie schon bei den drei bänden zuvor war jean yves ferri der autor und didier conrad der zeichner der titel des bandes wurde am 10

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