

# 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 colanuts, 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>(1-3)</sup>

## STRUCTURE OF CAFFEINE:

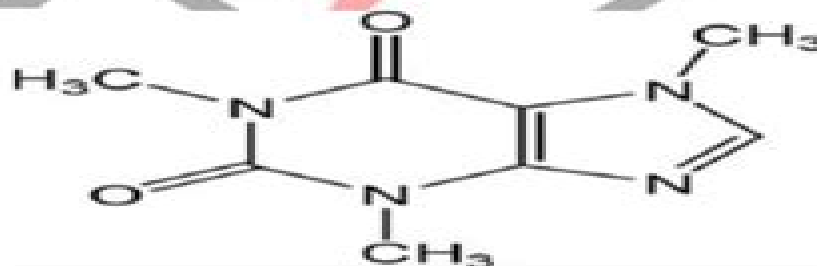


Figure no.1 Structure of caffeine

# Method Estimation Caffeine In Drinks Manual

**David Kirk**



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web apr 28 2022 here are examples of un competency based interview questions 1 describe a situation in which you worked in a team to complete a task 2 how would you communicate climate adaptation and mitigation strategies to communities in remote areas

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web the un uses competency based interviews to identify the right candidate based on if you could do the job in the past you will be able to do it in the future competency based interviewing is mainly about your past experience tell me about a time when you were part of a successful team what was your role in the team

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web competency interview questions a competency interview is a way to assess performance against the skills and knowledge required for the position it s based on the understanding that past behaviour and experience is a good indicator of future performance and requires you to use real life examples from your personal academic or professional life

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web when responding to this competency based interview question you would need to provide a specific example of where you have already demonstrated the core skills necessary surrounding the competency of teamwork what are the likely competencies to be assessed during my united nations interview

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web unlike most job interviews the un hiring panel relies on competency based questions given that this organization incredibly takes pride in the quality of its staff most of the questions that we will cover in this article will therefore be behavioral or criterion based seeking to uncover some of your past behaviors and experiences under

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web questions should be asked exactly as stated in the ecdi2030 with no changes to wording except for one question that follows a skip rule as explained later in this manual interviewers must ask all 20 questions the fact that some questions might sound too hard or too easy can generate reactions from respondents

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web explore the resources below to prepare yourself for the competency based interviewing style used in the un system guidance read these tips on preparing for competency based interviews