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Estimation of Caffeine and Vitamin B-Complex (Vitamin B2, B3, B5 and B6) Constituents of Selected Energy Drinks

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Authors' contributions

This work was carried out in collaboration among all authors. Author ECF designed the study, performed the statistical analysis, wrote the protocol and wrote the first draft of the manuscript. Authors NNE and OOJ managed the analyses of the study. Authors MOA and AECE managed the literature searches. All authors read and approved the final manuscript.

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ABSTRACT

Vitamins are important nutrients that are contained in food and carry out distinct and important bodily tasks that are required for sustaining good health. A xanthine alkaloid known as caffeine is widely distributed in natural plant sources such as coffee, cocoa beans, cola nuts, and tea leaves. Additionally, it is a raw material in several drinks. Its usage increases blood pressure, diuresis, blood sugar, generation of stomach acid and pepsin, plasma levels of fatty acids, cortisol, and epinephrine, intraocular pressure, and calcium loss, which causes bone loss. The phrase "energy drinks" refers to beverages that advertise that they will give you an energy boost, which has led to an increase in the popularity of "energy drinks" that include caffeine. The caffeine and vitamin B-complex concentrations of a few different energy drinks were tested and compared in this study project. Samples of ten (10) different energy drinks brands were chosen at random from Nkwo Ogbe

Method Estimation Caffeine In Drinks Manual

David Wyatt

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Food Industries Manual Christopher G.J. Baker, M.D. Ranken, R.C. Kill, 2012-12-06 It is a measure of the rapidity of the changes The work has been revised and updated and taking place in the food industry that yet another following the logic of the flow sheets there is some edition of the Food Industries Manual is required simplification and rearrangement among the chap after a relatively short interval As before it is a ters Food Packaging now merits a separate pleasure to be involved in the work and we hope chapter and some previous sections dealing mainly that the results will continue to be of value to with storage have been expanded into a new readers wanting to know what how and why the chapter covering Food Factory Design and Opera food industry does the things which it does tions For this edition we have made a major depar There is one completely new chapter entitled ture from the style of earlier editions by comple Alcoholic Beverages divided into Wines Beers tely revising the layout of many of the chapters and Spirits There is a strain of thought which Previously the chapters were arranged as a series does not yet consider the production of those of notes on specific topics set out in alphabetical drinks to be a legitimate part of the food industry order in the manner of an encyclopaedia **Manual of Nutritional** Therapeutics, 2008 Now updated this guick reference provides practical evidence based recommendations for nutrition of healthy individuals nutritional support of hospitalized patients and dietary management of patients with diabetes renal Manual of Nutritional Therapeutics David H. Alpers, Beth E. Taylor, Dennis M. Bier, Samuel disease cancer and AIDS Klein, 2015-01-21 Meant for guick retrieval of vital information regarding the management of nutritional issues in patients with gastroenterological problems either primary or as the consequence of other medical disorders such as diabetes hyperlipidemia and obesity The book addresses normal physiology and pathophysiology and offers chapters on diseases that can lead to specific nutritional problems The clinical focus is on therapeutic nutrition and dietary management Illustrated Manual of Nursing Practice, 2002 Completely revised and updated this broad yet comprehensive edition contains twenty nine chapters on nursing issues and clinical practice Topics cover practice and process documentation legal issues health promotion physical assessment I V therapy surgical care and more Disorders are organized by body system and feature an overview of anatomy and physiology assessment diagnostic tests medication treatment and home care with coverage of care for maternal neonatal pediatric geriatric emergency and psychiatric patients Added features include grabbing nursing procedure graphics complementary therapies clinical pathways and cultural information Over 1 000 illustrations charts and graphs enhance the text with a new appendix relating Internet sites for nurses A Manual of Practical Chemistry Alexander Wynter Blyth, 1879 Law's Grocer's manual James Thomas Law (of Liverpool.),1902 Manual on **Descriptive Analysis Testing for Sensory Evaluation**, Caffeine Dependence Mira Skylark, AI, 2025-03-12 Caffeine Dependence explores the significant impact of caffeine on our daily lives examining its effects on energy levels mood regulation and overall well being Many individuals rely on caffeine to kickstart their day or combat afternoon slumps often

unaware of the underlying dependence The book highlights how caffeine a widely consumed psychoactive substance affects both physical and psychological states making it challenging to function without it Understanding these mechanisms is key to mindfully managing intake The book traces caffeine s journey from ancient rituals to modern day ubiquity revealing how it has become deeply embedded in our routines It delves into caffeine s chemical properties physiological effects and psychological dimensions of dependence including its impact on mood anxiety and sleep patterns. The book further analyzes withdrawal symptoms such as headaches and fatigue and explores factors influencing their severity Drawing from scientific studies and personal accounts Caffeine Dependence adopts a fact based approach presenting complex concepts in an accessible manner. The book progresses logically starting with caffeine s effects on the body and mind moving to the science of withdrawal and culminating in practical strategies for managing consumption. These strategies include tapering methods alternative energy sources and lifestyle adjustments Readers will gain practical knowledge to identify dependence manage withdrawal and make informed decisions about their caffeine habits empowering them to take control of their consumption

Therapy Manuals for Drug Addiction Alan J. Budney, 1998 Presents clear helpful information to aid drug treatment practitioners in providing the best possible care that science has to offer **Risk Assessment of Caffeine Among** Children and Adolescents in the Nordic Countries ,2008 Handbook of Substance Abuse Ralph E. Tarter, Robert T. Ammerman, Peggy J. Ott, 2013-03-09 A review of the literature pertaining to the neurobehavioral pharmacology of abusable drugs this is the only book to survey each of the eleven classes of addictive drugs from the perspectives of neurological behavioral and clinical pharmacology Designed to serve as a companion text to the DSM IV manual the Handbook provides comprehensive information about each drug and drug class having abuse potential with respect to their pharmaceutical mechanisms and actions **Caffeine** Victor R Preedy, 2015-10-09 Caffeine is known to stimulate the central nervous system but what other functions does it have This book covers the latest scientific knowledge in a uniquely structured format and is specifically designed to link chemistry with health and nutrition to provide a broad appealing book Coverage begins with caffeine in relation to nutrition focussing on beverages then concentrates on chemistry crystal structures of complexes in caffeine and biochemistry In the analysis chapters assays are conducted by LC MS capillary electrophoresis automated flow methods and immunoassay methods The effects of caffeine on the brain cognitive performance sleep oxidative damage exercise and pulmonary function are all considered in the closing section of the book Delivering high quality information this book will be of benefit to anyone researching this area of health and nutritional science It will bridge scientific disciplines so that the information is more meaningful and applicable to health in general Part of a series of books it is specifically designed for chemists analytical scientists forensic scientists food scientists dieticians and health care workers nutritionists toxicologists and research academics Due to its interdisciplinary nature it could also be suitable for lecturers and teachers in food and nutritional sciences and as a college or university library reference guide Sensory Evaluation Techniques,

Fourth Edition Morten C. Meilgaard, B. Thomas Carr, Gail Vance Civille, 2006-12-13 From listing the steps involved in a sensory evaluation project to presenting advanced statistical methods Sensory Evaluation Techniques Fourth Edition covers all phases of sensory evaluation Like its bestselling predecessors this edition continues to detail all sensory tests currently in use to promote the effective employment of these tests and to describe major sensory evaluation practices The expert authors have updated and added many areas in this informative guide New to this edition are expanded chapters on qualitative and quantitative consumer research and the SpectrumTM method of descriptive sensory analysis that now contains full descriptive lexicons for numerous products such as cheese mayonnaise spaghetti sauce white bread cookies and toothpaste Also new in this chapter is a set of revised flavor intensity scales for crispness juiciness and some common aromatics The book now includes an overview of Thurstonian scaling that examines the decision processes employed by assessors during their evaluations of products Another addition is a detailed discussion of data relationship techniques which link data from diverse sources that are collected on the same set of examples With numerous examples and sample tests Sensory Evaluation Techniques Fourth Edition remains an essential resource that illustrates the development of sensory perception testing Food Service Manual for Health Care Institutions Ruby Parker Puckett, American Society for Healthcare Food Service Administrators, 2004-11-08 Food Service Manual for Health Care Institutions offers a comprehensive review of the management and operation of health care food service departments. This third edition of the book which has become the standard in the field of institutional and health care food service includes the most current data on the successful management of daily operations and includes information on a wide variety of topics such as leadership quality control human resource management communications and financial control and management This new edition also contains information on the practical operation of the food service department that has been greatly expanded and updated to help institutions better meet the needs of the customer and comply with the regulatory agencies standards IGCSE® Biology Practical Teacher's Guide with CD-ROM Matthew Broderick, 2016-01-04 This edition of our successful series to support the Cambridge IGCSE Biology syllabus 0610 is fully updated for the revised syllabus for first examination from 2016 The Cambridge IGCSE Biology Practical Teacher's Guide complements the Practical Workbook helping teachers to include more practical work in lessons Specific support is provided for each of the carefully designed investigations to save teachers time The Teacher's Guide contains advice about planning investigations guidance about safety considerations differentiated learning suggestions to support students who might be struggling and to stretch the students who are most able as well as answers to all the questions in the Workbook The Teacher's Guide also includes a CD ROM containing model data to be used in instances when an investigation cannot be carried out Dietary Methodology Workshop for the Third National Health and Nutrition Examination Survey David Wyatt, 1992 Four essays and a general introduction provide contemporary readings of The Grapes of Wrath for a general audience Written in an accessible style the essays cover the

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Preservatives and Preservation Approaches in Beverages Alexandru Grumezescu, Alina Maria Holban, 2019-07-17 Preservatives for the Beverage Industry Volume Fifteen a new release in The Science of Beverages series is a valuable resource that discusses preservatives and their impact in the beverage industry including potential health impacts The book takes a broad multidisciplinary approach to explore both conventional and novel approaches of the types and uses of preservatives The latest applications and techniques to reduce the use of non natural or health threatening preservation elements are also covered This is a must have reference for anyone who needs to increase their technical scientific knowledge in this field Includes information on the use of hurdle technology in the preservation of beverages Provides the latest research and impact of antimicrobial use in the beverages industry Presents the benefits and risks of preservatives to Substance Abuse Joyce H. Lowinson, 2005 The premier text on substance abuse and ensure safety in beverage products addictive behaviors is now in its updated and expanded Fourth Edition with up to the minute insights from more than 150 experts at the front lines of patient management and research This edition features expanded coverage of the neurobiology of abused substances new pharmacologic therapies for addictions and complete information on club drugs such as Ecstasy New sections focus on addiction in children adolescents adults and the elderly and women s health issues including pregnancy The expanded behavioral addictions section now includes hoarding shopping and computer Internet abuse Includes access to a Companion wesbite that has fully searchable text Advances in Usability Evaluation Marcelo M. Soares, Francesco Rebelo, 2012-07-09 Successful interaction with products tools and technologies depends on usable designs accommodating the needs of potential users and does not require costly training In this context Advances in Usability Evaluation Part I discusses emerging concepts theories and applications of human factors knowledge focusing on the discovery and understanding of human interaction with products and systems for their improvement The book covers devices and their interfaces focusing on optimization of user devices and emphasizing visual and haptic feedback It then discusses user studies exploring the limits and capabilities of special populations particularly the elderly which can influence the design It also examines the effect of changes in force and kinematics physiology cognitive performance in the design of consumer products tools and workplaces Examining a variety of user centered evaluation approaches the concluding chapters details methods for developing products that can improve safety and human performance and at same time the efficiency of the system It

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