



Article

Qualitative and Quantitative Analysis of the Major Constituents in WLJ Herbal Tea Using Multiple Chromatographic Techniques

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Abstract: Quality control of Chinese herbal tea remains a challenge due to our poor knowledge of their complex chemical profile. This study aims to investigate the chemical composition of one of the best-selling and famous brand of beverage in China, Wanglaoji Herbal Tea (WLJHT), via a full component quantitative analysis. In this paper, a total of thirty-two representative constituents were identified or tentatively characterized using ultra-high performance liquid chromatography coupled with quadrupole tandem time-of-flight mass spectrometry (UPLC-Q-TOF-MS). Moreover, the quantitative analyses of fourteen constituents were performed by high performance liquid chromatography with a triple quadrupole tandem mass spectrometry (HPLC-MS/MS) method and saccharide compositions of WLJHT were also quantitatively determined by high performance liquid chromatography (HPLC) with evaporative light scattering detector (ELSD) on a Hilsic column, separately. Using multiple chromatographic techniques presented a good precision, sensitivity, repeatability and stability, and was successfully applied to analyze 16 batches of WLJHT samples. Therefore, it would be a reliable and useful approach for the quality control of WLJHT.

Keywords: Wanglaoji herbal tea; UPLC-Q-TOF-MS; HPLC-MS/MS; evaporative light scattering detector

1. Introduction

Traditional Chinese herbal tea, developed by Chinese people during the long-term for disease prevention and health care under the guidance of traditional Chinese medicine, has been approved as an intangible cultural heritage by the Chinese government in 2006 [1–3].

Wanglaoji Herbal Tea (WLJHT), founded in the Daoguang eighth year of Qing Dynasty (Ad 1828), is the earliest Cantonese herbal tea and recognized as the ancestor of herbal tea. It is consisted of seven traditional Chinese medicines (*Chinese Mesona*, *Plumeriaeflos*, *Loniceraejaponicaeflos*, *Chrysanthemiflos*, *Prinosellae Spica*, *Microctis Folium* and *Glycyrrhizae Radix et Rhizoma*), and widely used for heat-clearing, detoxicating, engender liquid and allay thirst. Modern pharmacological studies have proven its protective effects on liver damage [2], improvement of cytotoxic T Lymphocytes activity in spleen [4], amelioration on lipids metabolism [5] and glucometabolism [6], and enhancement of immune functions of restrain-stress mice [7]. In our previous phytochemical study [8], several polyphenol constituents as phenolic acids and flavonoids were separated and structural elucidated from WLJHT.

Quantitative Analysis Using Chromatographic Techniques

Amitava Dasgupta



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Techniques and Practice of Chromatography Raymond P.W. Scott, 2020-01-29 This work introduces scientists of all disciplines to the chromatographic process and how it functions The basic principles of chromatographic separation and specific chromatographic procedures including gas liquid and thin layer chromatography are covered For each separation method the book details its characteristics the instrumentation required the procedures necessary for effective use areas of application and examples of its use This work is intended for analytical chemists laboratory technicians and upper level undergraduate and graduate students in analytical chemistry or separation science courses

Principles and Practice of Modern Chromatographic Methods Kevin Robards, Danielle Ryan, 2021-12-03 Principles and Practice of Modern Chromatographic Methods Second Edition takes a comprehensive unified approach in its presentation of chromatographic techniques Like the first edition the book provides a scientifically rigid but easy to follow presentation of chromatography concepts that begins with the purpose and intent of chromatographic theory the what and why that are left out of other books attempting to cover these principles This fully revised second edition brings the content up to date covering recent developments in several new sections and an additional chapter on composite methods New topics include sample profiling sample preparation sustainable green chemistry 2D chromatography miniaturization nano LC HILIC and more Contains thorough chapters that begin with an updated schematic overview and a visual representation of the content Avoids the obfuscation of different terminologies and classification systems that are prevalent in the area such as the relationship between liquid chromatography and column chromatography Provides integrated and comprehensive topic coverage based on chromatographic bibliometrics and survey reports on the relative

usage of chromatographic techniques *Chromatographic Techniques* Mr. Rohit Manglik, 2024-04-08 Separation methods are covered Guides students to analyze chromatographic processes fostering expertise in analytical chemistry through laboratory experiments and theoretical study **Advances in Chromatographic Techniques for Therapeutic Drug Monitoring** Amitava Dasgupta, 2009-10-06 For drugs with a narrow therapeutic index therapeutic drug monitoring methods are essential for patient management Although immunoassays are commercially available for many drugs and most laboratories use these assays for routine therapeutic monitoring they have many limitations which hinder their efficacy Providing practical guidelines for imp **Chromatographic Integration Methods** Norman Dyson, 2007-10-31 The second edition of the popular Chromatographic Integration Methods has been completely revised and updated Written by an expert with many years experience with two of the world s largest manufacturers of computing integrators it has been expanded to include a new section on validation of integrators in response to regulatory requirements for quality and validation A new literature survey additional diagrams and Author Index have also been added Well illustrated and easily read this is an excellent source book for those who wish to increase their understanding of integrators Chromatographic Integration Methods describes and discusses both manual and electronic techniques used with the aim of aiding analysts to obtain more data from their chromatograms and assist them with understanding how integrators work so that results are never accepted unquestioningly As with the first edition this book will be welcomed by all those in the chromatography field particularly those at the bench *Advanced Chromatographic and Electromigration Methods in BioSciences* I. Mikšík, F. Tagliaro, E. Tesarová, Z. Deyl, 1998-09-28 This book deals with chromatographic and electrophoretic methods applied for the separation quantitation and identification of biologically relevant compounds It is assumed that the potential reader is familiar with the basics of chromatographic and electromigration methods Individual separation modes are dealt with to an extent which follows their applicability for biomedical purposes liquid chromatography and electromigration methods are therefore highlighted Each chapter is completed with a list of recent literature covering the 1987 1997 period which can be used for further guidance of the reader in his her own field The chapters have been written by specialists in a particular area and with an emphasis on applications to the biomedical field This implies that theoretical and instrumental aspects are kept to a minimum which allows the reader to understand the text Considerable attention is paid to method selection detection and derivatization procedures and troubleshooting The majority of examples given represent the analyses of typical naturally occurring mixtures Adequate attention is paid to the role of the biological matrix and sample pretreatment and special attention is given to forensic toxicological and clinical applications The book is completed with an extensive Index of Compounds Separated *Practical HPLC Method Development* Lloyd R. Snyder, Joseph J. Kirkland, Joseph L. Glajch, 2012-12-03 This revision brings the reader completely up to date on the evolving methods associated with increasingly more complex sample types analyzed using high performance liquid chromatography or HPLC The book also incorporates

updated discussions of many of the fundamental components of HPLC systems and practical issues associated with the use of this analytical method This edition includes new or expanded treatments of sample preparation computer assisted method development as well as biochemical samples and chiral separations

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