

Article

A Simple and Reliable Method for the Determination of Isorhapontigenin in Murine Biological Matrices: Application in a Tissue Distribution Study

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Abstract

Isorhapontigenin (*trans*-3,5,4'-trihydroxy-3'-methoxystilbene; ISO), a dietary derivative of resveratrol (*trans*-3,5,4'-trihydroxystilbene; RES), exhibits diverse health-promoting properties. To facilitate its potential development as a nutraceutical, a simple and reliable high-performance liquid chromatography (HPLC) method was developed and validated for the quantification of ISO in various murine biological matrices. Chromatographic separation was achieved with a reversed-phase HPLC column through a 17 min gradient delivery of a mixture of acetonitrile and formic acid (0.1% v/v) at a flow rate of 1.5 mL/min at 50 °C. Quantification was performed using ultraviolet (UV) detection at 325 nm, with a lower limit of quantification (LLOQ) of 15 ng/mL in both plasma and tissue homogenate samples. The method demonstrated excellent selectivity, accuracy, and precision, and ISO remained stable under the tested conditions. This method was subsequently employed to investigate the tissue distribution of ISO in mice following oral administration at a dose of 200 µmol/kg (equivalent to 51.7 mg/kg). ISO was rapidly absorbed and extensively distributed across major pharmacologically relevant organs. Despite its limited aqueous solubility, its oral absorption was not significantly compromised. Given its oral bioavailability and broad tissue distribution, ISO represents a promising candidate for further nutraceutical development.

Keywords: isorhapontigenin; resveratrol; nutraceutical; bioavailability; biodistribution

1. Introduction

Resveratrol (*trans*-3,5,4'-trihydroxystilbene; RES; Figure 1), one of the most well-known nutraceuticals, occurs naturally in dietary sources such as grapevine, red wine, cranberry, blueberry, bilberry, peanut, and various herbs [1–3]. Since the turn of the millennium, RES has attracted considerable attention in the biomedical research community due to its reported potential benefits in managing a wide range of medical conditions, including Alzheimer's disease, cancer, cardiovascular diseases, chronic kidney disease, diabetes, nonalcoholic fatty liver disease, obesity, and metabolic syndrome. Increasing interest is also being directed toward its naturally occurring dietary derivatives [4].



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Spatial Modelling and Failure Analysis of Natural and Engineering Disasters through Data-Based Methods, volume III Faming Huang, Jingjing Meng, Sansar Raj Meena, 2024-09-12 This Research Topic is Volume III of a series The previous volume can be found here [Spatial Modelling and Failure Analysis of Natural and Engineering Disasters through Data based Methods Volume II](#) and [Spatial Modelling and Failure Analysis of Natural and Engineering Disasters through Data based Methods](#) Natural and engineering disasters which include landslides rock fall rainstorm dam failure floods earthquakes road and building disasters and wildfires appear as results of the progressive or extreme evolution of climatic tectonic and geomorphological processes and human engineering activities It is significant to explore the failure mechanism and carry out spatial modeling of these engineering and natural disasters due to their serious harm to the safety of people's lives and property The data based methods including advanced and successful remote sensing geographic information systems machine learning and numerical simulation techniques methods are promising tools to analyze these complex disasters Machine Learning models such as neurofuzzy logic decision tree artificial neural network deep learning and evolutionary algorithms are characterized by their abilities to produce knowledge and discover hidden and unknown patterns and trends from large databases whereas remote sensing and Geographic Information Systems appear as significant technology equipped with tools for data manipulation and advanced mathematical modeling What is more the numerical simulation can also be acknowledged as advanced technologies for discovering hidden failure mechanism of disasters The main objective of this Research Topic is to provide a scientific forum for advancing the successful implementation of Machine Learning ML and numerical simulation techniques in operation rules failure mechanism spatial and time series prediction susceptibility mapping hazard assessment vulnerability modeling risk assessment and early warning of complex natural and engineering disasters

Structural Reliability in Civil Engineering Wei-Liang Jin, Qian Ye, Yong Bai, 2025-04-01 Structural Reliability in Civil Engineering gives essential insights into the complexities of uncertainty in engineered structures along with practical examples and advanced methods making it an invaluable resource for both theory and real world application in your civil engineering projects Uncertainties are associated with the design evaluation and dynamic analysis of engineered structures Structural Reliability in Civil Engineering

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A Handbook for the Physiological Laboratory, Containing an Exposition of the Fundamental Facts of the Science, with Explicit Directions for Their Demonstration ... Sir John Burdon-Sanderson, 1884 Transactions of the Pharmaceutical Meetings, 1873 **Standard Methods of Chemical Analysis: Special subjects** Wilfred Welday Scott, 1925 Methods of the Chemists of the United States Steel Corporation for the Sampling and Analysis of Iron and Manganese Ores United States Steel Corporation. Chemists' Committee, 1926 **Reliability Assessment Using**

Stochastic Finite Element Analysis Achintya Halder, Sankaran Mahadevan, 2000-05-22 The first complete guide to using the Stochastic Finite Element Method for reliability assessment Unlike other analytical reliability estimation techniques the Stochastic Finite Element Method SFEM can be used for both implicit and explicit performance functions making it a particularly powerful and robust tool for today's engineer This book written by two pioneers in SFEM based methodologies shows how to use SFEM for the reliability analysis of a wide range of structures It begins by reviewing essential risk concepts currently available risk evaluation procedures and the use of analytical and sampling methods in estimating risk

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