

# Comparative Study on Phytochemical Screening and HPLC Analysis of *Daucus Carota* Pulp and Aerial Parts

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**Abstract**— Phytochemical and biological screening is necessary for the isolation of functional groups which lead to the discovery of new active compounds. In the present work, the crude aqueous extract of *Daucus carota* were tested for phytochemical screening and HPLC analysis which indicated the presence of various class of bioactive secondary metabolite such as terpenoids, flavonoids, saponins, steroids and glycosides. HPLC analysis was performed to quantify the  $\beta$ -carotene content in pulp and aerial extract of *Daucus carota*.

**Keywords:** active compounds, *Daucus carota*, pulp, aerial, phytochemical screening, HPLC

## I. INTRODUCTION

Plants are richest source for phytochemicals and nutraceuticals. It plays a role as an alternative medicine for drugs. Phytochemicals are primary and secondary compounds found in plants. These active substances in plants have been used for medicinal purposes, from the prehistoric time, as home remedies, an over-the-counter drug products, and dietary supplement.

Chlorophyll, proteins and common sugars are the primary constituents and secondary compounds have terpenoid, alkaloids and phenolic compounds [1]. The active phytoconstituents of plant have become keen interest in recent time due to its resourceful applications. Secondary metabolites present in smaller quantities in higher plants, include the alkaloids, steroids, flavonoids, terpenoids, tannins, and many others [2]. According to (Li *et al*) [3], phenolic compounds is one of the most numerous groups of substances in plant kingdom ranging from simple molecules, such as phenolic acids, to complex compounds, such as tannins.

Flavonoids constitute a group of natural compounds that occur in fruits, vegetables, wine, tea, chocolate and other cocoa products. Daily dietary intake of flavonoids and similar polyphenols exceeds that of antioxidative vitamins and provitamins [4]. Phytochemicals accumulate in different parts of the plants, such as in the roots, stems, leaves, flowers, fruits or seeds.

*Daucus carota* Linn. has been used for treatment of anti-diarrhea, anti-infection, anti-high blood cholesterol, anti-inflammation, anti-seizure, anti-fungal anti-bacteria and anti-cancer [5-11]. Previous studies revealed the presence of phenolic, flavonoid, carotenoid and anthocyanin in ethylacetate and methanolic extract of *Daucus carota* roots during a phytochemical screening [12-17]. Survey of literature provided information on *Daucus carota* pulp. Until now, we have no information about *Daucus carota* aerial extract.

The objective of study involved the phytochemical evaluation and HPLC analysis of *Daucus carota* plant.

Extraction methods are used for separation of active constituents of plant tissues using solvents through standard procedures. Different isolation methods are available to identify active compounds present in crude extract like thin layer chromatography (TLC), gas chromatography (GC), high performance liquid chromatography (HPLC) and more. But the easiest and simplest method is phytochemical screening. The phytochemical screening method employed in this study was to find out qualitatively and quantitatively the phytochemical constituents in the pulp and aerial extract of *Daucus carota* plant (Fig. 1). The techniques played may have significant role in the search for additional resources of raw material for pharmaceutical industry.

Plant: *Daucus carota*

Aerial part	-	DCA
Pulp	-	DCP

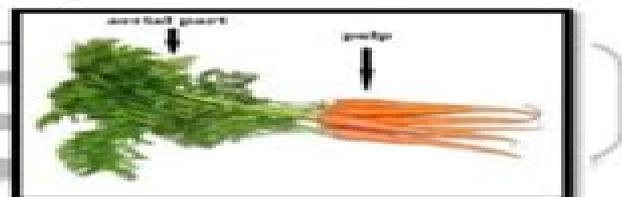


Fig. 1: Photograph of *Daucus carota* parts used as corrosion inhibitor

## II. MATERIALS AND METHODS

### A. Collection of plant materials

The study was carried out on the *Daucus carota* aerial part (DCA) and pulp (DCP). The samples were obtained from the commercial market, Coimbatore, India. The aerial part were separated from the fruit pulp, cleaned and made into small pieces, washed and then was air dried under shade (Fig. 2, and 3). The dried samples were ground into powder using an electronic blender and the fine powder was stored in air tight container and was used for phytochemical analysis.

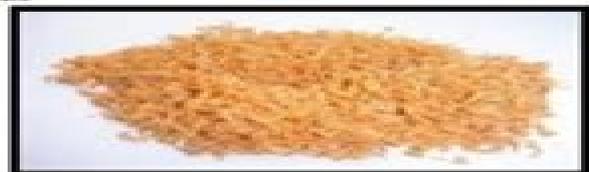


Fig. 2: Dried pulp materials of *Daucus carota* (DCP)

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Chidi,Shashank Kumar,Jaya Vikas  
Kurhekar,Nadia Sharif**

## **Phytochemical Screening And Study Of Comparative:**

*Biopesticides* Timothy O. Adejumo, Ralf T. Vögele, 2021-04-10 Biopesticides have readily available sources they are effective and easily biodegradable exhibit various modes of action cheaper inherently less toxic to humans and the environment They do not leave harmful residues and are usually more specific to target pests The use of biopesticides is markedly safer for the environment and users and more sustainable than the application of chemicals and are therefore used as potential alternatives to synthetic pesticides especially as components in Integrated Pest Management strategies The book *Biopesticides Botanicals and Microorganisms for Improving Agriculture and Human Health* is a collection of articles up to date reviews and research contributions from both developed and developing countries It emphasises the current issues of importance and the progress made in the fields of agricultural environmental and soil microbiology plant pathology and ethnobotany and aims to bring together all available and relevant information on biopesticides It comprises 12 Chapters on emerging issues on biopesticides from important and useful botanicals to beneficial microorganisms that show great potential in both agriculture and human health The book will be of immense help to both the undergraduate and postgraduate students biologists and agriculturists who would like to broaden their knowledge and gain substantial experience about biopesticides in agriculture and health this will enable them to contribute significantly in making the world a safer and healthier place

Botanical Extracts Arshad Farid, Ab Waheed Wani, S M Firdous, Mukul Machhindra Barwant, 2026-02-11 This book provides an overview of botanical extract development its standardization advanced analytical technologies and innovative applications in pharmaceuticals nutraceuticals and sustainable agriculture The chapters introduce the historical evolution of botanical extracts and the fundamental roles of secondary metabolites It further explores traditional and modern extraction techniques the impact of extraction methods on extract efficacy and advanced analytical technologies including HPLC mass spectrometry and AI driven approaches for quality control Furthermore *Botanical Extracts Research Methods and Applications in Pharmaceutical Sciences* presents biotechnological and nanotechnological advances in extraction and delivery systems discusses the pharmacokinetics and pharmacodynamics of botanical compounds and highlights challenges such as adulteration and supply chain variability Toward the end the book addresses emerging applications of extract in eco friendly agriculture as well as marine botanical extracts innovative formulation strategies and future trends in botanical research and development

Advances in Applied Research on Textile and Materials - IX Slah Msahli, Faten Debbabi, 2022-08-22 This book presents the proceedings of CIRATM 9 The papers present the latest scientific concepts and technological developments in textile and materials of worldwide researchers and practitioners The conference promotes sharing ideas and emerging technologies and fosters research and development collaborations amongst academia research institutions and relevant industries CIRATM is the first international conference applied on textiles in Tunisia and all Maghreb It is a regular conference organized every two year since 2004 It focuses on all textile and materials fields It

joins together all actors of textile field and share research with many international collaborators This edition is organized with the collaboration of 4 Tunisian partners and 6 international associates and institutions Laboratory of Textile Engineering LGTex Tunisia Monastir university Tunisia Tunisian Association of Textile Researchers ATCTex Tunisia Le p le de comp titivit Monastir El Fejja mfcpole Tunisia Association of the universities for textiles AUTEX International Balkan Society of textile engineering BASTE National research development institute for textile and leather INCDTP Bucharest Romania Yazid University Iran Centre d Essais Textile Cetelor Lorraine France Center of Textile Science and Technology 2C2T University of Minho Portugal **Phytochemistry, 3-Volume Set** Chukwuebuka Egbuna,Jonathan Chinenye Ifemeje,Stanley Udedi Chidi,Shashank Kumar,Jaya Vikas Kurhekar,Nadia Sharif,2022-05-29 The 3 volume set Phytochemistry covers a wide selection of topics in phytochemistry and provides a wealth of information on the fundamentals new applications methods and modern analytical techniques state of the art approaches and computational techniques With chapters from professional specialists in their fields from around the world the volumes deliver a comprehensive coverage of phytochemistry Phytochemistry is a multidisciplinary field so this book will appeal to students in both upper level students faculty researchers and industry professionals in a number of fields including biological science biochemistry pharmacy food and medicinal chemistry systematic botany and taxonomy ethnobotany conservation biology plant genetic and metabolomics evolutionary sciences and plant pathology **Phytochemistry** Chukwuebuka Egbuna,Jonathan Chinenye Ifemeje,Stanley Udedi,Shashank Kumar,2018-12-12 This first book in this three volume set provides comprehensive coverage of a wide range of topics in phytochemistry With chapters from professional specialists from key institutions around the world the volume starts with an introduction to phytochemistry and details the fundamentals Part II discusses the state of the art modern methods and techniques in phytochemical research while Part III provides an informative overview of computational phytochemistry and its applications Part IV presents novel research findings in the discovery of drugs that will be effective in the treatment of diseases The chapters are drawn carefully and integrated sequentially to aid flow consistency and continuity

**Aquatic Medicinal Plants** Archana Bachheti,Rakesh Kumar Bachheti,Azamal Husen,2023-08-01 The use of medicinal plants in herbal and modern medicine has gained popularity over the last few decades due to consumers taking more natural approaches to medicine Aquatic medicinal plants are rich in bioactive compounds and demonstrate various commercial nutraceutical and biological applications Aquatic Medicinal Plants offers the reader a wealth of information on uses of bioactive components of these plants along with crucial references and explains their traditional uses phytochemistry and pharmacological properties Features Provides information on aquatic and semiaquatic medicinal plants and their uses globally Discusses phytochemical components with the known active constituents and their pharmaceutical applications This volume in the Exploring Medicinal Plants series is appropriate for scientists experts and consultants associated with the exploration of aquatic medicinal plant usage This book is an essential tool for identifying important aquatic medicinal plants

and possibilities for the synthesis or preparation of modern drugs

**Medicinal Plants: Biodiversity, Sustainable Utilization and Conservation** Shaik Mahammad Khasim, Chunlin Long, Kanchit Thammasiri, Henrik Lutken, 2020-04-03

Plants have been a source of medicines and have played crucial role for human health Despite tremendous advances in the field of synthetic drugs and antibiotics plants continue to play a vital role in modern as well as traditional medicine across the globe In even today one third of the world s population depends on traditional medicine because of its safety features and ability to effectively cure diseases This book presents a comprehensive guide to medicinal plants their utility diversity and conversation as well as biotechnology It is divided into four main sections covering all aspects of research in medicinal plants biodiversity and conservation ethnobotany and ethnomedicine bioactive compounds from plants and microbes and biotechnology All sections cover the latest advances The book offers a valuable asset for researchers and graduate students of biotechnology botany microbiology and the pharmaceutical sciences It is an equally important resource for doctors especially those engaged in Ayurveda and allopathy the pharmaceutical industry for drug design and synthesis and the agricultural sciences

Journal of Pharmaceutical Sciences of the United Arab Republic ,1969

**Traditional Herbal Remedies of Sri Lanka** Viduranga Y. Waisundara, 2019-04-01 The Sri Lankan medicinal system predominantly utilizes herbs and spices for the treatment of various ailments This is mostly because Sri Lanka is a tropical country a biodiverse hot spot blessed with a plethora of flora and fauna Traditional Herbal Remedies of Sri Lanka looks at the traditional medicinal practices of the country that utilize plant material from a cultural philosophical and scientific perspective When it comes to the scientific aspects several Sri Lankan herbs have been in the spotlight for possessing bioactive constituents with promising therapeutic effects It is hoped that these will be considered as strong candidates to combat currently prevailing global disease conditions

**Key Features** Reveals the science behind the traditional wisdom passed down in Sri Lanka s long history of using herbal medicines Emphasizes the increasing global interest in botanical drugs Reviews the hot topic of Sri Lankan herbs which possess bioactive constituents and have promising therapeutic effects Aids the international natural product communities to better understand the herbal resources in Sri Lanka

**Biochemical Systematics and Ecology** ,1985

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*Annual Report - Regional Research Laboratory* Council of Scientific & Industrial Research (India). Regional Research Laboratory (Bhubaneswar, India), 1973

**Medicinal Plants of India** ,1987 Compiled from individual contributions which appeared periodically during the period 1960 1972

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**Index to Philippine Periodicals** ,2004

**Indian Journal of Forestry** ,2007

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