



Extraction Of Essential Oil Using Steam Distillation

DP Hallahan



Extraction Of Essential Oil Using Steam Distillation:

Extraction of Essential Oil Using Steam Distillation , A large number of herb materials contain Essential Oils with extensive bioactivities Acknowledging the importance of plants and its medicinal value extraction of Essential Oil had been done using Steam Distillation method In this project Steam Distillation was used to extract oil from different plant materials like eucalyptus leaves curry leaves hibiscus leaves lemon leaves marigold flowers rose flowers orange peels etc Research has confirmed centuries of practical use of essential oils and we now know that the fragrant pharmacy contains compounds with an extremely broad range of biochemical effects Essential oils are so termed as they are believed to represent the very essence of odor and flavor The recovery of Essential Oil the value added product from the raw botanical starting material is very important since the quality of the oil is greatly influenced during this step There are a variety of methods for obtaining volatile oils from plants Steam distillation method was found to be one of the promising techniques for the extraction of essential oil from plants as reputable distiller will preserve the original qualities of the plant The distillation was conducted in Clevenger apparatus in which boiling condensing and decantation was done Analysis of Essential oil was done using Gas Chromatography Mass Spectrometer apparatus which gives evaluates Essential Oil qualitatively and quantitatively Volume of Essential Oil obtained was changing w r t temperature and time of heating

Extraction of Essential Oils from Ginger Rhizome Using Steam Distillation Method Khairu Aizam Ibrahim,2006 Essential oils are highly concentrated essences of aromatic plants It can be extracted using a variety of methods such as steam distillation and solvent extraction Essential oils have a very high commercial value due to its therapeutic properties It is widely used in aromatherapy medicine and as well as flavoring food and drink industries To get the approximately pure essential oil from raw material conventional extraction technique like steam distillation is used Steam distillation is unlikely solvent extraction This is because steam distillation is to produce essential oils but solvent extraction will produce oleoresin Pure essential oil can be derived from a part of ginger plant that is the ginger rhizome by using steam distillation method The extraction of the ginger essential oils began when steam contact to the ginger in the extraction tank The steam carried out the essential oils from the ginger out of the rhizome and go through the condenser Then the steam with the essential oils will be condensed into liquid phase and will be collected in the beaker Lastly the two liquids will be separated To get high quality and quality of essential oils the fire from burner that burned the tank and produce steam in the tank must be well controlled Apart from being effective this study might as well discover potential savings in its operational cost and also environmental friendly

Essential Oil Extraction, Scalability Concerns, and Process Intensification Abiola Ezekiel Taiwo,Olalere Olusegun Abayomi,Bernardo Castro Dominguez,2025-12-05 This book provides insights into essential oil extraction research with a special interest in the scalability concerns of each extraction method and their techno economic concerns It includes advancements and prognosis for the optimal extraction of essential oils from laboratory to pilot then to industrial scale It overviews and identifies

sustainable options and proposes improvements to the currently available technologies in essential oil extraction Features Focuses on extraction technology of essential oils and scalability concern of essential oil extraction Presents robust elucidation on essential oil production current market value and demand Reviews feasibility studies and consideration of essential oil production processes Recent advancements in oil extraction methodologies and process intensification techniques for optimizing nutraceutical recovery Emphasizes process optimization control parameters and addresses environmental sustainability concern in essential oil extraction This book is aimed at graduate students researchers and professionals in separation and purification processes process intensification and agricultural feedstocks Phytochemical Techniques N. Raaman,2006 Phytochemicals are the individual chemicals from which the plants are made and plants are the key sources of raw material for both pharmaceutical and aromatic industries the improved methods for higher yield of active compounds will be the major incentive in these industries To help those who are involved in the isolation of compounds from plants some of the essential phytochemical techniques are included in this book The theoretical principles of various instruments handling of samples and interpretation of spectra are given in detail Adequate chemical formulas are included to support and explain various structures of compounds and techniques The book will prove useful to students researchers professionals in the field of Plant Physiology and Pathology Pharmaceutical and Chemical Engineering Biotechnology Medicinal and Aromatic Plants and Horticulture *The Extraction of Essential Oils from Herbaceous Materials by Steam Distillation* Colin Talanda,ARC-Institute for Agricultural Engineering (South Africa),2006 The American Perfumer and Essential Oil Review ,1910 Essentials of Medicinal and Aromatic Crops Muhammad Zia-Ul-Haq,Arwa Abdulkreem AL-Huqail,Muhammad Riaz,Umar Farooq Gohar,2023-10-09 Medicinal and aromatic crops MACs are high value crops since the natural products obtained from them are low volume high value commodities that have numerous applications in various sectors such as the food beverage food supplement flavor and fragrance perfumery and cosmetics pharmaceutical and aromatherapy industries In addition the plant biomass is used in the production of teas and medical applications in traditional and also modern medicines MACs are important mainly because they contain plant secondary metabolites such as essential oils alkaloids glycosides saponins tannins vitamins and other bioactives Plant secondary metabolites are differentiated from plant primary metabolites of photosynthesis and respiration since they are directly involved in growth and development of plants Some MACs are used as spices and culinary herbs since they contain mainly essential oils and are used as tonic to the digestive system appetite modification and other systems and may facilitate nutrient uptake and utilization from various foods A significant amount of MACs and their natural products have also demonstrated antimicrobial antifungal and bactericidal activity and significant antioxidant capacity In the past MACs and their natural products have been used as a source for various medicines in food and beverage production and in aroma products Essentials of Medicinal and Aromatic Crops summarizes the current knowledge on medicinal and aromatic crops including the agronomical practices

of important MACs and their products their beneficial effects and utilization of MAP and their products The chapters provide a comprehensive guide to the most important and used medicinal and aromatic crops and their use in functional foods nutraceuticals and as bioactives against various ailments providing researchers teachers chemists food scientists agronomists and agroecologists in academia industry and government a fully up to date singular source on this important topic The American Perfumer and Essential Oil Review (1906) ,1929 **Extraction of Patchouli Oil Using Steam**

Distillation Dewi Haryani Sulaiman,2008 This study is about Extraction of Patchouli Oil Using Steam Distillation The objective of this research is to study the feasibility of the optimum condition of steam distillation in patchouli oil extraction process Patchouli oil extraction is still new but has gained large market demand for the benefit on therapeutic and healing properties of this essential oil However cost effective route have yet to be develop This research has identified two scope of study to achieve the objective which is to vary the effect of different extraction time and sample mass on the yields In this extraction part of the plant used is the leaves and stick Firstly the raw material is exposed 3 hours under direct sunlight and 3 days in room temperature Dried patchouli plants are then cut to 2 cm in size Then the leaves are stacked in the extraction vessel High pressured steam passed through the plant material from the bottom of the vessel Hot steam will force open the pocket in which the essential oil of the patchouli was kept Next the steam which contains the essential oil passed through cooling system to condense the steam which would separate the essential oil from water Pure oil is extracted with this method For this equipment with the range of 7 hours extraction time and 2 kg to 4 kg sample masses the optimum extraction time is at 7 hours with 3 kg sample mass Author *Annual Report on Essential Oils, Synthetic Perfumes, Etc* Schimmel & Co. Aktiengesellschaft, Miltitz bei Leipzig,1912 **Natural Secondary Metabolites** Márcio Caroch, Sandrina A.

Heleno, Lillian Barros, 2023-02-21 This book focuses on the different compounds polyphenols sterols alkaloids terpenes that arise from the secondary metabolism of plants and fungi and their importance for research and industry These compounds have been the backbone and inspiration of various industries like the food pharmaceutical and others to produce synthetic counterparts Furthermore many of these compounds are still widely used to carry out specific functions in all these industries This book offers a compilation of different texts from world leading scientists in the areas of chemistry biochemistry plant science biotechnology which compile information on each group of secondary metabolism compounds and their most important applications in the food pharmaceutical cosmetic and textile industry By showcasing the best uses of these compounds the chemistry behind their production in plants and fungi this book is a valuable resource and a go to artifact for various audiences The new approach this book offers by linking research and the application of these compounds makes it interesting as an inspiration for new research or as a hallmark of what has been done in the secondary metabolism of plants and fungi in recent years Although this book may be technical it is also enjoyable as an integral reading experience due to a structured and integrated flow from the origins of secondary metabolism in organisms to the discovery of their

effects their high intensity research in recent years and translation into various industries Beyond learning more on their chemistry synthesis metabolic pathway readers will understand their importance to different research and industry

Perfumery and Essential Oil Record ,1910 *Semi-annual Report of Schimmel & Co. (Fritzsche Brothers)* ,1903 **The Volatile Oils** Eduard Gildemeister,Friedrich Hoffmann,1916 *Bulletin of Pharmacy* ,1927 *The Volatile oils v. 2, 1916* Eduard Gildemeister,1916 **A Text-book of Chemistry** Samuel Philip Sadtler,Virgil Coblentz,1906 *Journal of the Society of Chemical Industry* Society of Chemical Industry (Great Britain),1900 **Tropical Gardening and Planting, with Special Reference to Ceylon** Hugh Fraser Macmillan,1925 **Sustainable Seaweed Technologies** Maria Dolores Torres,Stefan Kraan,Herminia Dominguez,2020-05-20 Sustainable Seaweed Technologies Cultivation Biorefinery and Applications collates key background information on efficient cultivation and biorefinery of seaweeds combining underlying chemistry and methodology with industry experience Beginning with a review of the opportunities for seaweed biorefinery and the varied components and properties of macroalgae the book then reviews all the key steps needed for industrial applications from its cultivation collection and processing to extraction techniques concentration and purification A range of important applications are then discussed including the production of energy and novel materials from seaweed before a set of illustrative case studies shows how these various stages work in practice Drawing on the expert knowledge of a global team of editors and authors this book is a practical resource for both researchers and businesses who currently work with macroalgae Highlights the specific challenges and benefits of developing seaweed for sustainable products Presents useful case studies that demonstrate varied approaches and methodologies in practice Covers the complete seaweed chain from cultivation to waste management

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