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## Patent Search

Invention Title	A method of screening of medicinal plants for antiulcer activity using in vitro and in vivo models
Publication Number	35/2023
Publication Date	01/09/2023
Publication Type	INA
Application Number	202341051701
Application Filing Date	01/08/2023
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	CHEMICAL
Classification (IPC)	A61P0001040000, G01N0033500000, G01N0033680000, A61P0043000000, A61P0031040000

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#### Abstract:

The invention presents a comprehensive method for screening medicinal plants for antiulcer activity, integrating both in vitro and in vivo models. The approach begins with identification and selection of medicinal plants traditionally associated with ulcer treatment, followed by extraction and standardization of the active compounds. The component simulates human gastric conditions to test the compounds, while the in vivo studies employ animal models to assess their real-world efficacy. The method fosters interdisciplinary collaboration, and aligns with ethical and commercial considerations. It promises to redefine the landscape of pharmaceutical research and natural products exploration in the context of ulcer treatment, contributing to a more integrative and sustainable healthcare system.

#### Complete Specification

Description: The field of invention you've described involves a method for screening medicinal plants for antiulcer activity by employing both in vitro (outside a living organism) and in vivo (inside a living organism) models. This is a critical area of research in pharmaceutical science, focusing on natural products that could have potential therapeutic applications for ulcer-related disorders.

Background of the invention:

The background of the invention related to the method of screening medicinal plants for antiulcer activity using in vitro and in vivo models emanates from the convergence of traditional medicine, pharmacology, and modern scientific research. Ulcers, particularly those affecting the stomach and duodenal lining, have been a common and painful ailment affecting millions of people around the world. Conventional treatments often involve the use of synthetic drugs, which may have side effects and may not always be effective in managing the underlying causes of the disease.

The recognition of the therapeutic value of medicinal plants has been rooted in various cultures for centuries. Many traditional healing systems, such as Ayurveda, Traditional Chinese Medicine, and African traditional medicine, have utilized various botanicals to treat ulcers and related gastrointestinal disorders. However, the systematic evaluation and validation of these plants for antiulcer properties have remained limited, and much of the knowledge remained within the confines of traditional practices.

The advent of scientific methods and technological advancements opened doors to explore these traditional claims with empirical evidence. In vitro methods allow scientists to simulate conditions that mimic the human gastric environment, conducting tests on isolated cells or tissues. These methods made it possible to study the effects of plant extracts or isolated compounds on specific enzymes and biochemical pathways that are crucial in ulcer development. On the other hand, in vivo studies

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Page last updated on: 26/06/2019