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RECEIVED 20 October 2023

ACCEPTED 25 March 2024

PUBLISHED 09 April 2024

CITATION

Fan Y, Wang M, Zhang Q, Ouyang S, Mao W,
Xu C, Wang M and Long C (2024) Traditional
uses, phytochemistry, pharmacology, toxicity
and clinical application of traditional Chinese
medicine *Cynoglossum amabile*: a review.
Front. Pharmacol. 15:1325283.
doi: 10.3389/fphar.2024.1325283

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Traditional uses, phytochemistry, pharmacology, toxicity and clinical application of traditional Chinese medicine *Cynoglossum amabile*: a review

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Cynoglossum amabile, a member of the Boraginaceae family, is a well-known traditional Chinese medicine and ethnomedicine known as Daotihu. Despite several studies confirming the presence of bioactive pyrrolizidine alkaloids such as amabiline, ambelline, echinatine, europine, and others in *C. amabile*, there has been no comprehensive review of its traditional uses, phytochemistry, and pharmacology thus far. This review was conducted by thoroughly examining the literature and analyzing network databases. It covers various aspects of *C. amabile*, including botanical characteristics, geographical distribution, traditional applications, phytochemistry, pharmacological activities, toxicology, and clinical applications. The results have shown that *C. amabile* has been traditionally used for medicinal, edible, and ornamental purposes in China for many centuries. The whole plant, root, and leaf of *C. amabile* are used by different ethnic groups, such as Lisu, Bai, Dai, Naxi, Yi, Jinuo, and Han, to treat malaria, hepatitis, dysentery, leucorrhea, tuberculosis cough, fracture, joint dislocation, trauma bleeding, and skin carbuncle abscess. A total of 47 chemical components, including alkaloids (pyrrolizidine alkaloids, PAs), sterols, organic acids, and saccharides, were isolated from *C. amabile*. Pharmacological studies show that the chemical extracts of *C. amabile* possess various biological activities, such as anti-inflammatory, anti-tumor, anti-microbial, cardiovascular effects, ganglionic action, and acetylcholinesterase inhibition. However, it is important to note that *C. amabile* exhibits hepatotoxicity, with its toxicity being linked to its primary PAs components. Although preliminary studies suggest potential applications in the treatment of prostate diseases and alopecia, further research is needed to validate these clinical uses. Our review highlights the traditional uses, phytochemistry, biological activity, toxicity, and clinical applications of *C. amabile*. It emphasizes the essential guiding role of the indigenous medicinal knowledge system in developing new drugs. Previous studies have shown that the phytochemical and pharmacological characteristics of *C. amabile* are significantly related to its traditional medicinal practices. *Cynoglossum amabile* has excellent market potential and can be

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Table of Contents Review Of The Clinical Uses Of Aureomyci

1. Understanding the eBook Review Of The Clinical Uses Of Aureomyci
 - The Rise of Digital Reading Review Of The Clinical Uses Of Aureomyci
 - Advantages of eBooks Over Traditional Books
2. Identifying Review Of The Clinical Uses Of Aureomyci
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Review Of The Clinical Uses Of Aureomyci
 - User-Friendly Interface
4. Exploring eBook Recommendations from Review Of The Clinical Uses Of Aureomyci
 - Personalized Recommendations
 - Review Of The Clinical Uses Of Aureomyci User Reviews and Ratings

- Review Of The Clinical Uses Of Aureomycin and Bestseller Lists
- 5. Accessing Review Of The Clinical Uses Of Aureomycin Free and Paid eBooks
 - Review Of The Clinical Uses Of Aureomycin Public Domain eBooks
 - Review Of The Clinical Uses Of Aureomycin eBook Subscription Services
 - Review Of The Clinical Uses Of Aureomycin Budget-Friendly Options
- 6. Navigating Review Of The Clinical Uses Of Aureomycin eBook Formats
 - ePub, PDF, MOBI, and More
 - Review Of The Clinical Uses Of Aureomycin Compatibility with Devices
 - Review Of The Clinical Uses Of Aureomycin Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Review Of The Clinical Uses Of Aureomycin
 - Highlighting and Note-Taking Review Of The Clinical Uses Of Aureomycin
 - Interactive Elements Review Of The Clinical Uses Of Aureomycin
- 8. Staying Engaged with Review Of The Clinical Uses Of Aureomycin
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Review Of The Clinical Uses Of Aureomycin
- 9. Balancing eBooks and Physical Books Review Of The Clinical Uses Of Aureomycin
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Review Of The Clinical Uses Of Aureomycin
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Review Of The Clinical Uses Of Aureomycin
 - Setting Reading Goals Review Of The Clinical Uses Of Aureomycin
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Review Of The Clinical Uses Of Aureomycin
 - Fact-Checking eBook Content of Review Of The Clinical Uses Of Aureomycin
 - Distinguishing Credible Sources

-
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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