
**Traditional Chinese medicine —
Sinomenium acutum stem**

Médecine traditionnelle chinoise — Tige de Sinomenium acutum



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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 249, *Traditional Chinese medicine*.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

Sinomenium acutum stem is mainly produced in China and is also distributed in Japan. It has a long history as one of the most commonly used traditional Chinese medicines to treat rheumatism and arthralgia. *Sinomenium acutum* stem was first recorded in *Bencao tujing*^[1] (本草图经) and also called qingteng or xunfengteng in *Bencao gangmu*^[2] (本草纲目).

The main chemical constituents of *Sinomenium acutum* stem include alkaloids, volatile oils, sterols and lipids. Modern pharmacological studies have shown that the sinomenine in *Sinomenium acutum* stem has definite benefits for analgesia, anti-inflammation, sedation, lowering blood-pressure, anti-arrhythmia and immunosuppression. It is mainly used to treat rheumatoid arthritis, arrhythmia, ankylosing spondylitis, pain and other diseases. At present, there are more than 10 kinds of Chinese proprietary medicine, including zhengqing fengtongning pills, analgesic wine and qingfengteng tablets.

Although the curative effect of *Sinomenium acutum* stem is definite, side effects include allergic skin rash, gastrointestinal reactions and granulocyte reduction. This is a reminder to the industry to be cautious about the safety of *Sinomenium acutum* stem.

China, Japan, South Korea and Europe have established a standard for *Sinomenium acutum* stem in their respective pharmacopoeias. But each pharmacopoeia's requirements are different. The *Sinomenium acutum* stem standard has not been unified at the international level, and many countries have different regulation levels.

As national implementation can differ, national standards bodies are invited to modify the values given in 5.5, 5.6 and 5.7 in their national standards. An example of national values is given in Annex D.

The purpose of this document is to establish an International Standard for the quality and safety control of *Sinomenium acutum* stem, ensure the safety and effectiveness of clinical drug use, regulate the international market and reduce the occurrence of adverse events.

Traditional Chinese medicine — *Sinomenium acutum* stem

1 Scope

This document specifies the minimum quality and safety requirements of *Sinomenium acutum* stem [the dried lianoid stem of *Sinomenium acutum* (Thunb.) Rehd. et Wils. and *Sinomenium acutum* (Thunb.) Rehd. et Wils. var. *cinereum* Rehd. et Wils.].

This document applies to *Sinomenium acutum* stem that is sold and used as natural medicines in international trade, including Chinese materia medica (whole medicinal materials) and decoction pieces derived from these plants.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 18664, *Traditional Chinese Medicine — Determination of heavy metals in herbal medicines used in Traditional Chinese Medicine*

ISO/TS 21310, *Traditional Chinese medicine — Microscopic examination of medicinal herbs*

ISO 21371, *Traditional Chinese medicine — Labelling requirements of products intended for oral or topical use*

ISO 22217, *Traditional Chinese medicine — Storage requirements for raw materials and decoction pieces*

ISO 22258, *Traditional Chinese medicine — Determination of pesticide residues in natural products by gas chromatography*

ISO 23723, *Traditional Chinese medicine — General requirements for herbal raw material and materia medica*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <https://www.electropedia.org/>

3.1

***Sinomenium acutum* stem**

dried lianoid stem of *Sinomenium acutum* (Thunb.) Rehd. et Wils. and *Sinomenium acutum* (Thunb.) Rehd. et Wils. var. *cinereum* Rehd. et Wils.

3.2

marker compound

chemical constituent within a medicinal herb that can be used to verify its quality

Note 1 to entry: Usually described as active ingredients or chemicals that confirm the correct botanical identity of the starting material.