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Médecine traditionnelle chinoise — Graines et plants de Panax notoginseng

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Foreword

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For an explanation on 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 the following URL: www.iso.org/iso/foreword.html.

The committee responsible for this document is ISO/TC 249, *Traditional Chinese medicine*.

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Traditional Chinese medicine — *Panax notoginseng* seeds and seedlings

1 Scope

This document specifies minimum requirements and test methods for seeds and seedlings of *Panax notoginseng* (Burk.) F. H. Chen. It is suitable for marketing of cultivated *Panax notoginseng* seeds and seedlings. It is also suitable to be used for quality assurance by cultivators of *Panax notoginseng*.

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.

International Seed Testing Association (ISTA): 2016, *International Rules for Seed Testing*

International Seed Testing Association (ISTA): 2003, *Working Sheets on Tetrazolium testing*

3 Terms and definitions

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

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

— IEC Electropedia: available at http://www.electropedia.org/

— ISO Online browsing platform: available at http://www.iso.org/obp

3.1
1 000-seed weight
average weight of every 1 000 pure seeds of a *test sample* (3.19)

3.2
composite sample
portion formed by combining and mixing all the *primary samples* (3.8) taken from the *lot* (3.6)

3.3
foreign matter
parts of *Panax notoginseng seeds* (3.11) or *seedlings* (3.15) other than those named with the limits specified for the herbal materials concerned

Note 1 to entry: Foreign matter is any organism, part or product of an organism, other than that named in the specification and description of *Panax notoginseng* seeds or seedlings.

Note 2 to entry: Foreign matter is mineral admixtures not adhering to *Panax notoginseng* seeds or seedlings, such as soil, stones, sand and dust.

3.4
hibernaculum
hibernated bud with bud scales

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3.5
hibernaculum diameter
largest distance at the site of the *hibernaculum* (3.4)

Note 1 to entry: See Figure 2.

Note 2 to entry: It is expressed in centimetres.

3.6
lot
specified quantity of *seeds* (3.11) or *seedlings* (3.15) that is physically and uniquely identifiable

3.7
maturity
percentage of mature seeds, determined by number, in the *test sample* (3.19)

3.8
primary sample
portion taken from the *lot* (3.6) during one single sampling action

3.9
purity
weight of pure seed fraction over the total weight of the *test sample* (3.19)

Note 1 to entry: The pure seed refers to the species stated by the applicant or found to predominate in the test and includes all botanical varieties and cultivars of that species.

Note 2 to entry: It is expressed in per cent.

3.10
sealed
<container for seeds> closed in such a way that the container cannot be opened to get access to the seed and be closed again without either destroying the seal or leaving evidence of tampering

Note 1 to entry: This definition refers to the sealing of seed *lots* (3.6), as well as of seed samples.

3.11
seed
mature ovules produced by *Panax notoginseng* (Burk.) F. H. Chen, consisting of three basic parts: embryo, endosperm and seed coat

3.12
seed length
largest distance from the lower part to the top

Note 1 to entry: See Figure 1.

Note 2 to entry: It is expressed in millimetres.

3.13
seed thickness
largest distance from the side perpendicular to the ridge to the opposite side

Note 1 to entry: See Figure 1.

Note 2 to entry: It is expressed in millimetres.

3.14
seed width
largest distance from the side of the raphe to the opposite

Note 1 to entry: See Figure 1.

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Note 2 to entry: It is expressed in millimetres.

3.15
seedling
young plant of *Panax notoginseng* (Burk.) F. H. Chen, which, after cultivation for one year, consists of *hibernaculum* (3.4), *tap root* (3.18), lateral root and fibrous root

3.16
seedling diameter
largest distance at the site of the taproot

Note 1 to entry: See Figure 2.

Note 2 to entry: It is expressed in centimetres.

3.17
seedling weight
average weight of *test samples* (3.19) of *seedlings* (3.15)

3.18
tap root
root generated from the one year development of the radicle after seed germination

3.19
test sample
portion of the *composite sample* (3.2) to which one of the test required in this standard is applied

Note 1 to entry: Test samples may be packed in different materials meeting conditions for specific tests [e.g. moisture or *purity* (3.9)].

3.20
viability
potential ability of a seed to germinate, or capability of an embryo to live, as a percentage of stained seeds in the *test sample* (3.19)

Note 1 to entry: The percentage of stained seeds in the test sample shall be estimated by the method of Topographical Tetrazolium Test.

4 Descriptions

4.1 *Panax notoginseng* seed

In this document, *Panax notoginseng* seed is the dehydrated seed of plant *Panax notoginseng* (Burk.) F. H. Chen consisting of three basic parts: embryo, endosperm and the seed coat, as shown in Figure 1.

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