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Traditional Chinese medicine — General requirements for industrial manufacturing process of red ginseng (*Panax ginseng* C.A. Meyer)

*Médecine traditionnelle chinoise — Exigences générales pour le procédé de fabrication industrielle du ginseng rouge (*Panax ginseng *C.A. Meyer)*

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Foreword

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

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Traditional Chinese medicine — General requirements for industrial manufacturing process of red ginseng (*Panax ginseng* C.A. Meyer)

1 Scope

This document specifies the general requirements for the industrial manufacturing process of red ginseng from *Panax ginseng* C.A. Meyer which is the only species from which red ginseng is processed[6-11]. It is intended that manufacturers perform the appropriate washing, steaming, drying and packaging processes to assure the quality of red ginseng products for consumers.

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 14159, *Safety of machinery — Hygiene requirements for the design of machinery*

WHO Guidelines for drinking-water quality, fourth edition

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:

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

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

3.1
fresh ginseng
ginseng root harvested from the field, before being washed

3.2
washed ginseng
raw ginseng root washed with drinking water to remove any foreign matter and which is then used as the starting material for manufacturing red ginseng

3.3
steamed ginseng
ginseng produced through a process of steaming the washed ginseng to gelatinize the starch content

3.4
red ginseng
ginseng root from *Panax ginseng* C.A. Meyer, treated with steam and then dried and packaged as whole or cut roots

3.5
cultivated years
number of years of cultivation after budding seeds

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3.6
foreign matter
soil, dust, dirt, insects and other contaminants

3.7
expiration date
date until which the manufacturer guarantees the quality and safety of red ginseng product under defined conditions

3.8
red ginseng product
red ginseng that is packaged in appropriate packaging material

3.9
place of cultivation
place at which ginseng was cultivated

3.10
lot number
number assigned by the manufacturer to a group of uniform products for tracing the product history

4 General

4.1 Starting material

Starting material for manufacturing red ginseng is fresh ginseng which has been cultivated for four to six years.

4.1.1 Pesticides

Levels of pesticides residue for fresh ginseng are specified in accordance with domestic and/or international regulations.

4.1.2 Heavy metals

Levels of heavy metals for fresh ginseng are specified in accordance with domestic and/or international regulations.

NOTE For information on levels of heavy metals, see ISO 18664:2015, Table A.

4.2 Factory environment

Working environment shall be designed to reduce the potential for contamination during the processing of red ginseng.

4.3 Machines

4.3.1 General

Equipment and utensils which come in direct contact with the fresh ginseng shall be of appropriate design and construction to ensure the quality of the red ginseng.

4.3.2 Washing machine

4.3.2.1 General

Washing machine shall completely remove foreign matter from the fresh ginseng.

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