
**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)*



This document is a preview generated by EBS



COPYRIGHT PROTECTED DOCUMENT

© ISO 2017, Published in Switzerland

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Ch. de Blandonnet 8 • CP 401
CH-1214 Vernier, Geneva, Switzerland
Tel. +41 22 749 01 11
Fax +41 22 749 09 47
copyright@iso.org
www.iso.org

Contents

Page

Foreword	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 General	2
4.1 Starting material	2
4.1.1 Pesticides	2
4.1.2 Heavy metals	2
4.2 Factory environment	2
4.3 Machines	2
4.3.1 General	2
4.3.2 Washing machine	2
4.3.3 Steaming machine	3
4.3.4 Drying machine	3
4.3.5 Packaging machine	3
5 Industrial manufacturing process of red ginseng	4
5.1 General	4
5.2 Washing	5
5.2.1 General	5
5.2.2 Quality of water	5
5.2.3 Washing procedure	5
5.3 Steaming	5
5.3.1 General	5
5.3.2 Classification for steaming	5
5.3.3 Steaming condition	6
5.4 Drying	7
5.4.1 General	7
5.4.2 Drying guidelines	7
5.4.3 Hot air drying	7
5.4.4 Sun drying	7
6 Packaging and labelling	7
6.1 General	7
6.2 Packaging	8
6.3 Labelling	8
6.3.1 General	8
6.3.2 Expiration date	9
Bibliography	10

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

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

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