

---

---

**Traditional Chinese medicine —  
*Bupleurum chinense*, *Bupleurum  
scorzonerifolium* and *Bupleurum  
falcatum* root**

*Médecine traditionnelle chinoise — Racine de Bupleurum chinense,  
Bupleurum scorzonerifolium et Bupleurum falcatum*





**COPYRIGHT PROTECTED DOCUMENT**

© ISO 2022

All rights reserved. Unless otherwise specified, or required in the context of its implementation, 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  
CP 401 • Ch. de Blandonnet 8  
CH-1214 Vernier, Geneva  
Phone: +41 22 749 01 11  
Email: [copyright@iso.org](mailto:copyright@iso.org)  
Website: [www.iso.org](http://www.iso.org)

Published in Switzerland

# Contents

Page

Foreword.....	iv
Introduction.....	v
<b>1 Scope.....</b>	<b>1</b>
<b>2 Normative references.....</b>	<b>1</b>
<b>3 Terms and definitions.....</b>	<b>1</b>
<b>4 Description.....</b>	<b>2</b>
<b>5 Requirements.....</b>	<b>4</b>
5.1 General characteristics.....	4
5.2 Macroscopic characteristics.....	4
5.2.1 <i>Bupleurum chinense</i> .....	4
5.2.2 <i>Bupleurum scorzonerifolium</i> .....	4
5.2.3 <i>Bupleurum falcatum</i> .....	4
5.3 Moisture.....	4
5.4 Total ash.....	4
5.5 Acid-insoluble ash.....	4
5.6 Thin-layer chromatogram (TLC) identification.....	5
5.7 Toxic adulterants of <i>Bupleurum longiradiatum</i> root.....	5
5.8 Ethanol-soluble extractives.....	5
5.9 Content of marker compounds.....	5
5.10 Heavy metals.....	5
5.11 Pesticide residues.....	5
5.12 Sulfur dioxide residues.....	5
<b>6 Sampling.....</b>	<b>5</b>
<b>7 Test methods.....</b>	<b>5</b>
7.1 Macroscopic identification.....	5
7.2 Determination of moisture content.....	5
7.3 Determination of total ash and acid-insoluble ash content.....	5
7.4 Determination of ethanol-soluble extractives content.....	5
7.5 Thin-layer chromatogram (TLC) identification.....	6
7.6 Identification of the toxic adulterants of <i>Bupleurum longiradiatum</i> root.....	6
7.7 Determination of marker compound(s).....	6
7.8 Determination of heavy metals.....	6
7.9 Determination of pesticide residues.....	6
7.10 Determination of sulfur dioxide residues.....	6
<b>8 Test report.....</b>	<b>6</b>
<b>9 Packaging, storage and transportation.....</b>	<b>6</b>
<b>10 Marking and labelling.....</b>	<b>7</b>
<b>Annex A (informative) Determination of moisture content.....</b>	<b>8</b>
<b>Annex B (informative) Determination of total ash and acid-insoluble ash content.....</b>	<b>9</b>
<b>Annex C (informative) Determination of ethanol-soluble extractives content.....</b>	<b>10</b>
<b>Annex D (informative) Thin-layer chromatogram (TLC) identification.....</b>	<b>11</b>
<b>Annex E (informative) Identification of the toxic adulterants of <i>Bupleurum longiradiatum</i> root.....</b>	<b>13</b>
<b>Annex F (informative) Determination of marker compounds.....</b>	<b>16</b>
<b>Annex G (informative) National and regional requirements for <i>Bupleurum chinense</i>, <i>Bupleurum scorzonerifolium</i> and <i>Bupleurum falcatum</i> root.....</b>	<b>19</b>