ISO 23972:2021-10 (E)

Traditional Chinese medicine - Zingiber officinale rhizome

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative references 1

3 Termsanddefinitions 1

4 Descriptions 2

5 Requirements 3
5.1 General characteristics 3
5.2 Zingiber officinale rhizome 3
5.2.1 Morphological features of rhizome 3
5.2.2 Microscopic characteristics 3
5.2.3 Thin-layer chromatogram (TLC) identification 3
5.2.4 Moisture content 3
5.2.5 Total ash 3
5.2.6 Volatile oil 4
5.2.7 Marker compound 4
5.2.8 Water-soluble extractives 4
5.2.9 Heavy metals 4
5.2.10 Pesticide residues 4
5.2.11 Residue of sulfur dioxide 4

6 Sampling 4

7 Test methods 4
7.1 Macroscopic identification 4
7.2 Microscopic identification 5
7.3 Thin-layer chromatogram (TLC) identification 5
7.4 Determination of moisture content 5
7.5 Determination of total ash content 5
7.6 Determination of volatile oil 5
7.7 Determination of marker compound 6-gingerol 5
7.8 Determination of water-soluble extractives 5
7.9 Determination of heavy metals 5
7.10 Determination of pesticide residues 5
7.11 Determination of residue of sulfur dioxide 5

8 Test report 5

9 Packaging and storage 6

10 Marking and labelling 6

Annex A (informative)Thin-layerchromatogram(TLC)identification 7

Annex B (informative) Determination of moisture content 9

Annex C (informative) Determination of 6-gingerol 11

Annex D (informative) Determination of water-soluble extractives 13

Annex E (informative) Referenced values of moisture, total ash, gingerol, volatile oil and water-soluble extractives contents on Zingiber officinale rhizome in different national and regional standards 14

Bibliography 15