

FINAL  
DRAFT

INTERNATIONAL  
STANDARD

ISO/FDIS  
5553

ISO/TC 34/SC 6

Secretariat: SAC

Voting begins on:  
**2023-11-21**

Voting terminates on:  
**2024-01-16**

---

---

## Meat and meat products — Detection of condensed phosphates

*Viandes et produits à base de viande — Recherche des phosphates condensés*

iTeh Standards  
(<https://standards.iteh.ai>)  
Document Preview

[ISO/FDIS 5553](#)

<https://standards.iteh.ai/catalog/standards/sist/1d102904-f684-4521-aa44-88dce8e8ef13/iso-fdis-5553>

RECIPIENTS OF THIS DRAFT ARE INVITED TO SUBMIT, WITH THEIR COMMENTS, NOTIFICATION OF ANY RELEVANT PATENT RIGHTS OF WHICH THEY ARE AWARE AND TO PROVIDE SUPPORTING DOCUMENTATION.

IN ADDITION TO THEIR EVALUATION AS BEING ACCEPTABLE FOR INDUSTRIAL, TECHNOLOGICAL, COMMERCIAL AND USER PURPOSES, DRAFT INTERNATIONAL STANDARDS MAY ON OCCASION HAVE TO BE CONSIDERED IN THE LIGHT OF THEIR POTENTIAL TO BECOME STANDARDS TO WHICH REFERENCE MAY BE MADE IN NATIONAL REGULATIONS.



Reference number  
ISO/FDIS 5553:2023(E)

© ISO 2023

iTeh Standards  
(<https://standards.iteh.ai>)  
Document Preview

ISO/FDIS 5553

<https://standards.iteh.ai/catalog/standards/sist/1d102904-f684-4521-aa44-88dce8e8ef13/iso-fdis-5553>



**COPYRIGHT PROTECTED DOCUMENT**

© ISO 2023

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
<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 Principle</b> .....	<b>1</b>
<b>5 Sampling</b> .....	<b>1</b>
<b>6 Preparation of the test sample</b> .....	<b>1</b>
<b>7 Reagents and apparatus</b> .....	<b>2</b>
7.1 Reagents.....	2
7.2 Apparatus.....	3
<b>8 Procedure</b> .....	<b>4</b>
8.1 Preparation of thin-layer plates.....	4
8.2 Preparation of serum.....	4
8.3 Chromatographic separation.....	4
8.4 Detection of phosphates.....	5
8.5 Limit of detection.....	5
8.6 Repeatability and reproducibility.....	5
<b>9 Interpretation</b> .....	<b>5</b>
<b>10 Test report</b> .....	<b>6</b>
<b>Annex A (informative) Interlaboratory test</b> .....	<b>7</b>
<b>Annex B (informative) Thin layer chromatograms of reference mixture</b> .....	<b>8</b>
<b>Bibliography</b> .....	<b>9</b>

[ISO/FDIS 5553](https://standards.iteh.ai/)

<https://standards.iteh.ai/catalog/standards/sist/1d102904-f684-4521-aa44-88dce8e8ef13/iso-fdis-5553>

## 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 document 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](http://www.iso.org/directives)).

ISO draws attention to the possibility that the implementation of this document may involve the use of (a) patent(s). ISO takes no position concerning the evidence, validity or applicability of any claimed patent rights in respect thereof. As of the date of publication of this document, ISO had not received notice of (a) patent(s) which may be required to implement this document. However, implementers are cautioned that this may not represent the latest information, which may be obtained from the patent database available at [www.iso.org/patents](http://www.iso.org/patents). ISO shall not be held responsible for identifying any or all such patent rights.

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of 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 [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html).

This document was prepared by Technical Committee ISO/TC 34, *Food products*, Subcommittee SC 6, *Meat, poultry, fish, eggs and their products*.

This second edition cancels and replaces the first edition (ISO 5553:1980), which has been technically revised.

The main changes are as follows:

- term “polyphosphates” has been revised to “condensed phosphates”;
- clauses have been reordered;
- [Clause 5](#) “Sampling” has been updated;
- [Clause 7](#) “Reagents and Apparatus” has been updated;
- the amount of extracting solution has been revised and the temperature conditions of the extracting solution has been deleted ([8.2.1](#));
- “Limit of detection” has been added ([8.5](#));
- “Repeatability and reproducibility” has been added ([8.6](#));
- [Clause 9](#) “Interpretation” has been modified and the  $R_F$  values of the phosphates in the reference mixture have been revised;
- “[Annex A](#)” and “[Annex B](#)” has been added.
- “Bibliography” has been added.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at [www.iso.org/members.html](http://www.iso.org/members.html).

**iTeh Standards**  
**(<https://standards.itih.ai>)**  
**Document Preview**

ISO/FDIS 5553

<https://standards.itih.ai/catalog/standards/sist/1d102904-f684-4521-aa44-88dce8e8ef13/iso-fdis-5553>

