



**International
Standard**

ISO 20070

**Biotechnology — Biobanking
— Requirements for primary
containers for storing biological
materials in biobanks**

*Biotechnologie — Biobanking — Exigences relatives aux
contenants primaires pour le stockage des matériaux biologiques
dans les biobanques*

**First edition
2025-12**

iTeh Standards
(standards.iteh.ai)
Document Preview

ISO 20070:2025

<https://standards.iteh.ai/catalog/standards/iso/8157a5b5-9518-4e4d-9d0c-d1b534152e6e/iso-20070-2025>

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

ISO 20070:2025

<https://standards.itih.ai/catalog/standards/iso/8157a5b5-9518-4c4d-9d0c-d1b534152e6e/iso-20070-2025>



COPYRIGHT PROTECTED DOCUMENT

© ISO 2025

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
Website: www.iso.org

Published in Switzerland

Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Requirements	3
4.1 Requirements for the manufacturer	3
4.1.1 General	3
4.1.2 Product specification	4
4.2 Requirements for the primary container	4
4.2.1 General requirements	4
4.2.2 Suitability for storage conditions and storage duration	5
4.2.3 Suitability for transport	5
4.2.4 Suitability for the technical methods used	5
4.2.5 Suitability for biological material	6
4.2.6 Leak-resistance of the primary container	7
5 Test methods	7
5.1 General	7
5.2 Performance of tests and scope of testing	7
5.3 Testing stability under storage conditions	8
5.4 Testing leak-resistance	8
5.5 Testing for the release of substances from the primary container material	8
5.6 Testing for adsorption or absorption of components of the biological material by the material of the primary container	9
5.7 Testing for changes in the shape and mechanical properties of the primary container	9
5.8 Test report	9
6 Labelling	10
6.1 Identifiability and traceability	10
6.2 Testing the labelling	10
Annex A (normative) Test method for testing the leak-resistance of primary containers made of plastic	11
Annex B (normative) Layouts for SBS microplate format-based racks	13
Bibliography	16

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).

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. 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.

This document was prepared by Technical Committee ISO/TC 276, *Biotechnology*.

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.

ISO 20070:2025

<https://standards.iteh.ai/catalog/standards/iso/8157a5b5-9518-4c4d-9d0c-d1b534152e6e/iso-20070-2025>