

First edition
2020-11

AMENDMENT 1
2021-09

**Biotechnology — Biobanking —
Process and quality requirements
for establishment, maintenance and
characterization of mammalian cell
lines**

AMENDMENT 1

iTeh STANDARD PREVIEW
(standards.iteh.ai)

*Biotechnologie — Biobanking — Exigences de processus et de qualité
pour la génération, le maintien et la caractérisation des lignées
cellulaires de mammifères*

ISO 21709:2020/Amd 1:2021

AMENDEMENT 1

<https://standards.iteh.ai/catalog/standards/sist/3f8acab8-18c9-4406-a0f0-b351bc498b50/iso-21709-2020-amd-1-2021>



Reference number
ISO 21709:2020/Amd.1:2021(E)

© ISO 2021

iTeh STANDARD PREVIEW (standards.iteh.ai)

ISO 21709:2020/Amd 1:2021
<https://standards.iteh.ai/catalog/standards/sist/3f8acab8-18c9-4406-a0f0-b351bc498b50/iso-21709-2020-amd-1-2021>



COPYRIGHT PROTECTED DOCUMENT

© ISO 2021

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

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 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.

iTeh STANDARD PREVIEW **(standards.iteh.ai)**

ISO 21709:2020/Amd 1:2021

<https://standards.iteh.ai/catalog/standards/sist/3f8acab8-18c9-4406-a0f0-b351bc498b50/iso-21709-2020-amd-1-2021>

Biotechnology — Biobanking — Process and quality requirements for establishment, maintenance and characterization of mammalian cell lines

AMENDMENT 1

3.6

Replace the definition with the following text:

3.6

cryopreservation

process by which cells are maintained in an ultra-low temperature in an inactive state so they can be revived later

3.11

iTeh STANDARD PREVIEW
(standards.iteh.ai)

Delete the term “informed consent” and its definition.

3.12 to 3.17

ISO 21709:2020/Amd 1:2021
<https://standards.iteh.ai/catalog/standards/sist/3f8acab8-18c9-4406-a0f0-b351bc498b50/iso-21709-2020-amd-1-2021>

Adjust the numbering according to the deletion of 3.11.

4.1

Add the following text as the last sentence of this subclause:

ISO 20387:2018, Clause 4, shall be followed.

4.2

Replace the entire subclause with the following text:

4.2 Legal and ethical requirements

ISO 20387:2018, 4.3 shall be followed.

The biobank shall consult a competent institutional/independent ethics review committee, which is responsible for the investigation and evaluation of any related ethical principles/requirements.

The biobank shall comply with ISO 20387:2018, 4.1.6 and 7.2.3.4. The biological material, which is the source of the cell line, shall be collected, transported and handled according to internationally accepted procedures.

The biobank shall be aware of and able to demonstrate compliance with relevant nationally, regionally and internationally approved ethics, laws and regulations relating to the biological material held in the biobank.

4.4.1

Replace the second paragraph after i) with the following text:

The biobank shall equip its facility with appropriate biosafety equipment based on the assessed biological safety level (documented risk analysis); see 4.3.2. ISO 20387:2018, 6.3.5, shall be followed.

4.6

Delete the whole subclause.

4.7

Renumber the subclause to 4.6.

Renumber 4.7.1 to 4.6.1; 4.7.2 to 4.6.2; 4.7.3 to 4.6.3; and 4.7.4 to 4.6.4.

iTeh STANDARD PREVIEW
(standards.iteh.ai)

5.3.2

Add h) as an additional point to the list with the following text:

h) passage number. <https://standards.iteh.ai/catalog/standards/sist/3f8acab8-18c9-4406-a0f0-b351bc498b50/iso-21709-2020-amd-1-2021>

5.3.3, fifth paragraph

Replace the text with the following text:

When contamination is detected in a cell line (i.e. microbial contamination or contamination with another cell line), the biobank should check if other batches are also contaminated. The biobank may dispose of contaminated cell lines if at least one other batch is uncontaminated. If, however, there is no uncontaminated batch, the biobank can request another deposit from the provider or perform removal of contaminants (e.g. with antibiotics) and re-culture the cell line. The biobank shall record and track contamination events.

5.3.4, Table 1

Replace with the following:

Table 1 — Example of cell line storage condition

Purpose	Storage condition	Minimum cell number per vial	Minimum number of vials
Seed stock	Vapour-phase of liquid nitrogen (recommended) (≤ -130 °C)	1 × 10 ⁶ cells/ml (each vial)	12
Distribution stock			20

iTeh STANDARD PREVIEW **(standards.iteh.ai)**

ISO 21709:2020/Amd 1:2021

<https://standards.iteh.ai/catalog/standards/sist/3f8acab8-18c9-4406-a0f0-b351bc498b50/iso-21709-2020-amd-1-2021>