



BSI Standards Publication

Biotechnology — Biobanking of parasites

Part 1: Helminths

National foreword

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**Biotechnology — Biobanking of
parasites —**

**Part 1:
Helminths**

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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).

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

A list of all parts in the ISO 18209 series can be found on the ISO website.

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.

Introduction

The biological industry has been using helminths to treat diseases such as Crohn's disease, ulcerative colitis, auto-immune disease like allergic asthma, and even incurable disease like cancer. The industry is also developing anthelmintic drugs and rapid infection diagnosis methods.

A biobank that can fulfil the role as a platform for collecting, storing and distributing parasitic resources is of urgent need.

This document supports processes that maintain animal welfare, as it is anchored in the principle of the three Rs: to "Replace, Reduce and Refine the use of animals"^[20].

This document deals with the management and operation of the biobank: Helminth, which can safely manage and supply uncontaminated parasitic resources for the biological industry to develop treatment of autoimmune diseases, parasite infection diagnostic tests, and anthelmintics.

In this document, the following verbal forms are used:

- "shall" indicates a requirement;
- "should" indicates a recommendation;
- "may" indicates a permission;
- "can" indicates a possibility or a capability.

Biotechnology — Biobanking of parasites —

Part 1: Helminths

1 Scope

This document provides requirements for the biobanking of helminths as parasitic resources including the collection, safeguarding, classification, proliferation, preservation, storage and distribution of helminths.

This document sets requirements for the quality of helminths and their associated data, the data collection, and safety management when handling the helminths as a source of human disease infection.

This document is applicable to all organizations performing biobanking with helminths used for research and development.

NOTE International, national or regional regulations or requirements, or multiple of them, can also apply to specific topics covered in this document.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 15190:2020, *Medical laboratories — Requirements for safety*

ISO 20387:2018, *Biotechnology — Biobanking — General requirements for biobanking*

ISO 21710:2020, *Biotechnology — Specification on data management and publication in microbial resource centers*

ISO 24088-1, *Biotechnology — Biobanking of microorganisms — Part 1: Bacteria and archaea*

ISO 35001, *Biorisk management for laboratories and other related organisations*

ISO 45001:2018, *Occupational health and safety management systems — Requirements with guidance for use*

IEC 61010-1, *Safety requirements for electrical equipment for measurement, control, and laboratory use — Part 1: General requirements*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 20387 and ISO 24088-1 and the following apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <https://www.electropedia.org/>