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**BIOTECHNOLOGY - LABORATORIES FOR
RESEARCH, DEVELOPMENT AND
ANALYSIS - GUIDANCE FOR HANDLING,
INACTIVATING AND TESTING OF WASTE**

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EUROPEAN STANDARD
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English version

**Biotechnology - Laboratories for research, development and
analysis - Guidance for handling, inactivating and testing of
waste**

Biotechnologie - Laboratoires de recherche,
développement et analyse - Guide pour la manipulation,
l'inactivation et le contrôle des déchets

Biotechnik - Laboratorien für Forschung, Entwicklung und
Analyse - Leitfaden für die Behandlung, Inaktivierung und
Prüfung von Abfällen

This European Standard was approved by CEN on 14 June 1999.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
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Foreword

This European Standard has been prepared by Technical Committee CEN/TC 233 "Biotechnology", the secretariat of which is held by AFNOR.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by January 2000, and conflicting national standards shall be withdrawn at the latest by January 2000.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

This European Standard has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association.

Introduction

Compliance with this European Standard will minimize the risks associated with the collection, storage, packaging, intra-laboratory transport, treatment and disposal of waste including effluent and those arising from the treatment for re-use or recycling of contaminated items, equipment and materials.

This European Standard aims to harmonize the treatment of waste containing hazardous organisms. More extensive National and international legislative provisions should be observed. The principles for laboratories established in this European Standard are consistent with those relevant to large scale biotechnology processes.

The presence of hazardous organisms among the waste and the way in which it is handled should be determined by risk assessment in accordance with the National and European (see annex B [1], [2]) regulations.

1 Scope

This European Standard gives guidance on methods for handling, inactivating and testing of waste containing organisms arising from biotechnology laboratory activities and processes.

It is concerned with methods to reduce the risks arising from exposure to waste derived from laboratory-scale activities which contains organisms hazardous or potentially hazardous to humans, animals, plants or the environment. Such waste may include organisms whether as solid, liquid or gaseous by-products or effluent, together with items or equipment required to be disposed of and which may be contaminated with organisms.

Wastes may be generated by biotechnology, clinical, molecular biology, microbiology and other laboratories in activities where organisms are handled, genetically modified organisms are created or used or by laboratory processes involving material of human, animal or plant origin. This European Standard does not apply to other types of waste or waste from human healthcare or other medical treatment activities.

2 Normative references

This European Standard incorporates, by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

EN 285	Sterilization - Steam sterilizers - Large sterilizers
EN 866-1	Biological systems for testing sterilizers and sterilization processes - Part 1 : General requirements
EN 12128	Biotechnology - Laboratories for research, development and analysis - Containment levels of microbiology laboratories, areas of risk, localities and physical safety requirements.

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