INTERNATIONAL STANDARD

ISO 14698-1

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Cleanrooms and associated controlled environments — Biocontamination control —

Part 1:

General principles and methods

Salles propres et environnements maîtrisés apparentés — Maîtrise de la biocontamination —

Partie 1: Principes généraux et méthodes



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Contents	Page
Foreword	iv
Introduction	V
1 Scope.	
2 Normative references	1
3 Terms and definitions	1
4 Principles of biocontamination control	4
5 Establishing the formal System	5
6 Expression, interpretation and reporting of results	
7 Verification of the Formal System	11
7 Verification of the Formal System 8 Training	11
9 Documentation	11
Annex A (informative) Guidance on determining airborne biocontamination	
Annex B (informative) Guidance on validating air samplers	
Annex C (informative) Guidance on determining biocontamination of surfaces	18
Annex D (informative) Guidance on determining biocontamination of textiles	
Annex E (informative) Guidance on validating laurdering processes	22
Annex F (informative) Guidance on determining bio entamination of liquids	26
Annex G (informative) Guidance on training	28
Annex G (informative) Guidance on training Bibliography	31

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 Maison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical contrittees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires applying by at least 75 % of the member bodies casting a vote.

is drawn to the proposed by Technical system.

398-1 was prepared by Technical system.

4698 consists of the following parts, under the genoments — Biocontamination control:

Part 1: General principles and methods

Part 2: Evaluation and interpretation of biocontamination data. 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.

ISO 14698-1 was prepared by Technical Committee ISO/TC 209, Cleanrooms and associated controlled environments.

ISO 14698 consists of the following parts, under the general title Cleanrooms and associated controlled environments — Biocontamination control:

Introduction

The principles described here are intended to promote appropriate hygienic practices. This part of ISO 14698 is one of a number of standards considering factors important for the creation of clean, controlled environments.

Hygiene has become increasingly important in many areas of modern society. In such areas, hygiene or biocontamination control methods are, or will be, used to create safe and stable products. International trade in hygiene-sensitive products has greatly increased. At the same time, the use of antimicrobial agents has been reduced or forbidden, creating a need for increased biocontamination control.

This part of ISO 14698 is the first general International Standard for biocontamination control. However, many factors besides cleanliness must be considered in the design, specification, operation and control of cleanrooms and associated controlled environments.

In some circumstances, relevant regulatory agencies could impose supplementary policies or restrictions. In such situations, appropriate adaptations of the standard testing procedures might be required.

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Cleanrooms and associated controlled environments — Biocontamination control —

Part 1:

General principles and methods

1 Scope

This part of ISO 14698 establishes the principles and basic methodology of a formal system of biocontamination control (Formal System) for assessing and controlling biocontamination when cleanroom technology is applied for that purpose. This part of ISO 14698 specifies the methods required for monitoring risk zones in a consistent way and to applying control measures appropriate to the degree of risk involved. In zones where risk is low, it can be used as a source of information.

Application-specific requirements are not given. Neither are fire and safety issues addressed; for these, see regulatory requirements and other national local documentation.

2 Normative references

The following referenced documents are indispersable for the application 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 14644-4:2001, Cleanrooms and associated controlled environments — Part 4: Design, construction and start-up

ISO 14698-2:2003, Cleanrooms and associated controlled environments — Biocontamination control — Part 2: Evaluation and interpretation of biocontamination data

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply

3.1 General

3.1.1

action level

level set by the user in the context of controlled environments, which, when exceeded, requires immediate intervention, including investigation of cause, and corrective action

3.1.2

alert level

level set by the user in the context of controlled environments, giving early warning of a drift from normal conditions, which, when exceeded, should result in increased attention to the process