INTERNATIONAL STANDARD

ISO 12771

> First edition 1997-05-01

Plastics laboratory ware — Disposable serological pipettes

Matériel de laboratoire en plastique — Pipettes sérologiques à usage unique



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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 12771 was prepared by Technical Committee ISO/TC 48, Laboratory glassware and related apparatus, Subcommittee SC 1, Volumetric instruments.

Annex A of this International Standard is for information only.

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Plastics laboratory ware — Disposable serological pipettes

1 Scope

This International Standard specifies requirements for disposable plastics serological pipettes, gauged to deliver, suitable for general laboratory purposes.

2 Normative references

The following standards contamprovisions which, through references in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 1043-1:1987, Plastics — Symbols — Part 1: Basic polymers and their special characteristics.

ISO 1769:1975, Laboratory glassware — Pipettes — Colour coding.

ISO 8417:—," Laboratory volumetric instruments— Principles of design and construction of disposable volumetric articles .

3 Definitions

For the purposes of this International Standard, the following definitions apply.

3.1 disposable: Adjective used to describe serological pipettes which are intended to be used once only and then discarded.

NOTE — Such pipettes will only be expected to provide their specified performance during the original operation.

- 3.2 accuracy (of a pipette): Closeness of agreement between the normal volume and the true volume, obtained by applying the test procedure specified in clause 9.1. It is quantified by the capacity deviation.
- **3.3 repeatability (of a number of pipettes):** Closeness of agreement between the individual volumes obtained by applying the test procedure specified in 9.2.

NOTE 1: Definitions and terms are in agreement with the "International Vocabulary of Basic and General Terms in Metrology". See ISO 3534-1 for details.

NOTE 2: The definitions for accuracy and repeatability apply only in cases where the distributions are Gaussian.

4 Basis of adjustment

4.1 Unit of volume

The unit of volume is the cubic centimetre (cm³), for which the name millilitre (ml) may be used.

¹⁾ To be published.