
**Plastics laboratory ware — Single-use
Petri dishes for microbiological
procedures**

*Matériel de laboratoire en matière plastique — Boîtes de Petri à usage
unique pour méthodes microbiologiques*



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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.

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The main task of technical committees 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 approval by at least 75 % of the member bodies casting a vote.

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Plastics laboratory ware — Single-use Petri dishes for microbiological procedures

1 Scope

This International Standard specifies requirements and test methods for plain, single-use Petri dishes for microbiological use.

This International Standard does not apply to products of similar design which may be used for cell or tissue culture purposes. Neither does it apply to dishes supplied ready loaded with microbiological media.

NOTE Petri dishes are used for microbiological routine purposes in very large numbers and consequently, are often handled by robotic equipment. Users of such equipment should satisfy themselves that the Petri dishes of any given manufacturer are suitable for use with such equipment and, if obtained from several sources, are compatible if mixed.

2 Terms and definitions

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

2.1

Petri dish

combination of a dish with an accompanying loose-fitting lid, intended to preserve the microbiological integrity of its unused or in-use enclosed, interior space

2.2

dish

shallow, cylindrical or square, open-topped container comprising a plane base with an integral outer wall

NOTE The dish can be subdivided with internal dividers to form separate compartments.

2.3

lid

cover of similar shape to, and larger size than the dish, over which it is placed, inverted, to enclose a working volume

NOTE The underside of the lid can incorporate one or more small protuberances (venting protrusions) to facilitate free circulation of environmental gases. Lids without such protrusions are designed to impede such free circulation.

3 Principle of use

Under environmentally controlled conditions, selected to avoid introduction of unwanted micro-organisms, the lid of the Petri dish is lifted and a quantity of microbiologically nutrient medium introduced (poured) into the dish. The dish is recovered and allowed to equilibrate with a predetermined environment.

Under similarly suitable conditions, the lid is lifted again and a sample under investigation is then introduced onto the medium in the dish. Following closure and a period of storage under predetermined conditions, growth of any microorganisms originating from the sample may have occurred, enabling further study.

NOTE Attention is drawn to potential national or regional regulations in respect of safe and environmentally compatible disposal of used Petri dishes.