

TECHNICAL REPORT

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Artificial insemination of animals — Frozen semen of breeding bulls — Enumeration of living aerobic micro-organisms

*Insémination artificielle des animaux — Semences congelées de
taureaux reproducteurs — Dénombrement des micro-organismes
aérobies vivants*



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Foreword

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The main task of technical committees is to prepare International Standards, but in exceptional circumstances a technical committee may propose the publication of a Technical Report of one of the following types:

- type 1, when the required support cannot be obtained for the publication of an International Standard, despite repeated efforts;
- type 2, when the subject is still under technical development or where for any other reason there is the future but not immediate possibility of an agreement on an International Standard;
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Technical Reports of types 1 and 2 are subject to review within three years of publication, to decide whether they can be transformed into International Standards. Technical Reports of type 3 do not necessarily have to be reviewed until the data they provide are considered to be no longer valid or useful.

ISO/TR 8607, which is a Technical Report of type 1, was prepared by Technical Committee ISO/TC 34, *Agricultural food products*.

The decision was taken to publish this document as a Technical Report of type 1 since, at the committee draft stage, no consensus could be reached with regard to technical comments put forward by several member bodies.

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Artificial insemination of animals — Frozen semen of breeding bulls — Enumeration of living aerobic micro-organisms

1 Scope

This Technical Report specifies a method for the enumeration of living aerobic micro-organisms present in the frozen semen of breeding bulls, by counting the colonies obtained in a solid medium after aerobic incubation at 37 °C.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this Technical Report. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this Technical Report 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 6887:1983, *Microbiology -- General guidance for the preparation of dilutions for microbiological examination*.

ISO 7218:1985, *Microbiology — General guidance for microbiological examinations*.

3 Definitions

For the purposes of this Technical Report, the following definitions apply.

3.1 semen: Product of the genital organs of a male, intended for the fertilization of a female.

3.2 ejaculate: Quantity of semen obtained as a result of mating the male.

3.3 dose: Quantity of semen, which is packaged individually and carries a unique identification, intended for a single artificial insemination.

3.4 series of doses: Group of doses of semen obtained from one bull and prepared from one or more ejaculates obtained on the same day, and subjected to the same treatment.

3.5 living aerobic micro-organisms: Bacteria, yeasts and moulds which grow aerobically at 37 °C under the operating conditions specified in this Technical Report.

4 Principle

4.1 Deep inoculation of two poured plates containing a specified culture medium with a specified quantity of test sample.

4.2 Aerobic incubation of the two plates at 37 °C ± 1 °C for 72 h.

4.3 Calculation of the number of micro-organisms per millilitre of test sample from the number of colonies obtained.

5 Culture medium and diluent

5.1 General

For general guidance, see ISO 7218.

5.2 Diluent

Use the diluent specified in ISO 6887.