

STN	Laboratórna medicína Požiadavky na kompetentnosť kalibračných laboratórií používajúcich referenčné meracie postupy (ISO 15195: 2018)	STN EN ISO 15195 85 5270
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Laboratory medicine - Requirements for the competence of calibration laboratories using reference measurement procedures (ISO 15195:2018)

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

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Laboratory medicine - Requirements for the competence of calibration laboratories using reference measurement procedures (ISO 15195:2018)

Biologie médicale - Exigences relatives à la compétence des laboratoires d'étalonnage utilisant des procédures de mesure de référence (ISO 15195:2018)

Laboratoriumsmedizin - Anforderungen an die Kompetenz von Kalibrierlaboratorien mit Referenzmessverfahren (ISO 15195:2018)

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EN ISO 15195:2019 (E)

Contents	Page
European foreword.....	3

European foreword

This document (EN ISO 15195:2019) has been prepared by Technical Committee ISO/TC 212 "Clinical laboratory testing and in vitro diagnostic test systems" in collaboration with Technical Committee CEN/TC 140 "In vitro diagnostic medical devices" the secretariat of which is held by DIN.

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of an identical text or by endorsement, at the latest by August 2019, and conflicting national standards shall be withdrawn at the latest by February 2022.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN ISO 15195:2003.

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Endorsement notice

The text of ISO 15195:2018 has been approved by CEN as EN ISO 15195:2019 without any modification.

**INTERNATIONAL
STANDARD**

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Second edition
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**Laboratory medicine — Requirements
for the competence of calibration
laboratories using reference
measurement procedures**

*Biologie médicale — Exigences relatives à la compétence des
laboratoires d'étalonnage utilisant des procédures de mesure de
référence*



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ISO 15195:2018(E)

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Contents

	Page
Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 General requirements	2
5 Structural requirements	3
6 Resource requirements	3
6.1 General.....	3
6.2 Personnel.....	3
6.3 Laboratory facilities and environmental conditions.....	3
6.4 Equipment.....	3
6.5 Metrological traceability.....	4
6.6 Reference materials.....	4
6.7 Externally provided products and services.....	4
7 Process requirements	5
7.1 Review of requests, tender and contracts.....	5
7.2 Reference measurement procedures.....	5
7.3 Handling of samples.....	5
7.4 Measurement records.....	5
7.5 Evaluation of measurement uncertainty.....	5
7.6 Ensuring the validity of measurement results.....	6
7.7 Reporting measurement results.....	6
8 Management requirements	6
8.1 General.....	6
8.2 Internal audits.....	6
Annex A (informative) Relationship to ISO/IEC 17025:2017	7
Bibliography	8

ISO 15195:2018(E)

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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 212, *Clinical laboratory testing and in vitro diagnostic test systems*.

This second edition cancels and replaces the first edition (ISO 15195:2003), which has been technically revised.

The main changes compared to the previous edition are as follows:

- inclusion of ISO/IEC 17025:2017 as a normative reference;
- removal of clauses that duplicate requirements in ISO/IEC 17025:2017;
- reorganization of this document so that it follows the structure of ISO/IEC 17025:2017.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

The general requirements for the competence of calibration laboratories are specified in ISO/IEC 17025:2017 for testing and calibration laboratories. This document refers to the additional aspects for the competence of calibration laboratories in the field of laboratory medicine where such “calibration laboratories” are usually denoted as “reference measurement laboratories”.

The results produced by medical laboratories should be traceable to reference materials and/or reference measurement procedures of higher order, whenever these are available. This is necessary to allow transferability of measurement results in patient samples irrespective of the place and time of measurement.

The metrological level of the results provided by calibration laboratories should be appropriate to support medical laboratories to fulfil medical requirements. The specific requirements of medical laboratories are addressed in ISO 15189.

Calibration laboratories should implement reference measurement procedures and produce results of measurement that are accurate and traceable to national or international primary reference materials when such are available. Whenever possible, traceability should be established to a reference material which forms an embodiment of the SI unit (ISO 17511).

The calibration laboratory should provide traceable values on reference materials supplied by customers to the highest available level of reference measurement procedures or reference materials.

In many instances, properties of biological materials cannot be expressed in SI units because the molecular structure of their analytes is not exactly known and can be different in a reference material from that in a native sample of human origin (e.g. state of glycosylation of a protein).

Even if the value for a property of a biological material is not traceable to an SI unit, each step of a reference measurement procedure (e.g. gravimetry, volumetry, thermometry, potentiometry) should have values that are traceable to the respective SI unit.

The traceability concept, including its applicability and limitations are described in detail in ISO 17511.

The requirements described in this document and in ISO/IEC 17025:2017 are prerequisites for calibration laboratories to perform their tasks adequately.

This document may form a basis for the accreditation of a calibration laboratory that applies for recognition of the performance of a reference measurement procedure.

Laboratory medicine — Requirements for the competence of calibration laboratories using reference measurement procedures

1 Scope

This document specifies the requirements for competence to carry out reference measurement procedures in laboratory medicine, using the requirements of ISO/IEC 17025:2017 as a normative reference and listing additional requirements for calibration laboratories to perform their tasks adequately.

The relationship between clauses in this document and ISO/IEC 17025:2017 are summarized in [Annex A](#).

Examinations of properties with results reported on a nominal or ordinal scale are not included.

This document is not applicable to medical laboratories.

NOTE Requirements for medical laboratories are specified in ISO 15189^[1].

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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/IEC Guide 98-3, *Uncertainty of measurement — Part 3: Guide to the expression of uncertainty in measurement (GUM:1995)*

ISO/IEC Guide 99, *International vocabulary of metrology — Basic and general concepts and associated terms (VIM)*

ISO 15193, *In vitro diagnostic medical devices — Measurement of quantities in samples of biological origin — Requirements for content and presentation of reference measurement procedures*

ISO 15194, *In vitro diagnostic medical devices — Measurement of quantities in samples of biological origin — Requirements for certified reference materials and the content of supporting documentation*

ISO/IEC 17025:2017, *General requirements for the competence of testing and calibration laboratories*

ISO 17511, *In vitro diagnostic medical devices — Measurement of quantities in biological samples — Metrological traceability of values assigned to calibrators and control materials*

ISO 18153, *In vitro diagnostic medical devices — Measurement of quantities in biological samples — Metrological traceability of values for catalytic concentration of enzymes assigned calibrators and control materials*

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