

SLOVENSKI STANDARD SIST EN ISO 11132:2017

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Senzorična analiza - Metodologija - Smernice za nadzorovanje izvajanja kvantitativnega senzoričnega panelnega testa (ISO 11132:2012)

Sensory analysis - Methodology - Guidelines for monitoring the performance of a quantitative sensory panel (ISO 11132:2012)

Sensorische Analyse - Methodologie - Leitlinien zur Überprüfung der Leistungsfähigkeit eines quantitativen sensorischen Panels (ISO 11132:2012)

Analyse sensorielle - Méthodologie - Lignes directrices pour le contrôle de la performance d'un jury sensoriel quantitatif (ISO 11132;2012)

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67.240 Senzorična analiza

Sensory analysis

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en



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English Version

Sensory analysis - Methodology - Guidelines for monitoring the performance of a quantitative sensory panel (ISO 11132:2012)

Analyse sensorielle - Méthodologie - Lignes directrices pour le contrôle de la performance d'un jury sensoriel quantitatif (ISO 11132:2012) Sensorische Analyse - Methodologie - Leitlinien zur Überprüfung der Leistungsfähigkeit eines quantitativen sensorischen Panels (ISO 11132:2012)

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European foreword

The text of ISO 11132:2012 has been prepared by Technical Committee ISO/TC 34 "Food products" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 11132:2017.

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of an identical text or by endorsement, at the latest by November 2017, and conflicting national standards shall be withdrawn at the latest by November 2017.

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INTERNATIONAL STANDARD

ISO 11132

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Sensory analysis — Methodology — Guidelines for monitoring the performance of a quantitative sensory panel

Analyse sensorielle — Méthodologie — Lignes directrices pour le contrôle de la performance d'un jury sensoriel quantitatif

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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.

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

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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ISO 11132 was prepared by Technical Committee ISO/TC 34, *Food products*, Subcommittee SC 12, *Sensory analysis*.

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Sensory analysis — Methodology — Guidelines for monitoring the performance of a quantitative sensory panel

1 Scope

This International Standard gives guidelines for monitoring and assessing the overall performance of a quantitative descriptive panel and the performance of each member.

A panel of assessors can be used as an instrument to assess the magnitude of sensory attributes.

Performance is the measure of the ability of a panel or an assessor to make valid attribute assessments across the products being evaluated. It can be monitored at a given time point or tracked over time. Performance comprises the ability of a panel to detect, identify, and measure an attribute, use attributes in a similar way to other panels or assessors, discriminate between stimuli, use a scale properly, repeat their own results, and reproduce results from other panels or assessors.

The methods specified allow the consistency, repeatability, freedom from bias and ability to discriminate of panels and assessors to be monitored and assessed. Monitoring and assessment of agreement between panel members is also covered. Monitoring and assessment can be carried out in one session or over time.

Monitoring performance data enables the panel leader to improve panel and assessor performance, to identify issues and retraining needs or to identify assessors who are not performing well enough to continue participating. (standards.iteh.ai)

The methods specified in this International Standard can be used by the panel leader to appraise continuously the performance of panels or individual assessors: 11132:2017

https://standards.iteh.ai/catalog/standards/sist/414b608e-5656-4e89-9fa0-This International Standard applies to individuals or panels in training as well as for established panels.

2 Normative references

The following referenced documents are indispensable 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 5492, Sensory analysis — Vocabulary

ISO 8586, Sensory analysis — General guidelines for the selection, training and monitoring of selected and expert assessors

ISO 8589, Sensory analysis — General guidance for the design of test rooms

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 5492 and the following apply.

3.1

agreement

ability of different panels or assessors to assign similar scores on a given attribute to samples of the same product

3.2

homogeneity

measure of the agreement of responses among individual assessors within a test session, as a panel of assessors in replicate sessions, or for an individual assessor in replicate sessions

3.3

assessor bias

tendency of an assessor to give scores which are consistently above or below the true score when that is known or the panel mean when it is not

3.4

outlier

an assessment that does not conform to the overall pattern of the data or is extremely different from other assessments of the same or similar products

3.5

panel drift

phenomenon where a panel, over time, changes in sensitivity or becomes susceptible to biases and as a consequence changes the location on the scale where an attribute is rated for a constant, reference product

3.6

performance

ability of a panel or an assessor to make valid and reliable assessments of stimuli and stimulus attributes

3.7

repeatability

agreement in assessments of equivalent product samples under the same test conditions by the same assessor or panel

3.8

reproducibility

agreement in assessments of equivalent product samples under different test conditions, with different tasks or by a different assessor or panel (standards.iteh.ai)

Reproducibility may be measured as any of the following: NOTE

SIST EN ISO 11132:2017 the reproducibility of a panel in the short term, measured between two or more sessions separated by several days;

the reproducibility of a panel in the medium of long term, measured among sessions separated by several months;

the reproducibility between different panels, in the same laboratory or in different laboratories;

the reproducibility of assessments by a single assessor of different attributes of a product.

3.9

validation

process of establishing that sensory data correlate with other data on samples of the same product (e.g. laboratory measurements, consumer perception, results from other panels, consumer complaints) or that a panel or assessor is able to meet specified performance criteria

3.10

session

occasion on which products are assessed

In a single session either one or several products may be assessed by one or several assessors. For an NOTE assessor, whether alone or as part of a panel, sessions are separated in time.

3.11

replicate sessions

sessions in which the assessors, the products, the test conditions, and the task are the same

Principle 4

This International Standard is concerned with sensory panels used to assess the magnitude of one or more sensory attributes in order to make quantitative descriptions or profiles of products. Different methods are appropriate to the assessment and monitoring of the performance of panels used for difference testing.