

## SLOVENSKI STANDARD oSIST prEN ISO 8586:2022

01-junij-2022

Senzorična analiza - Splošna navodila za izbiranje, usposabljanje in spremljanje izbranih ocenjevalcev in strokovnih senzoričnih ocenjevalcev (ISO/DIS 8586:2022)

Sensory analysis - General guidelines for the selection, training and monitoring of selected assessors and expert sensory assessors (ISO/DIS 8586:2022)

Sensorische Analyse - Allgemeiner Leitfaden für die Auswahl, Schulung und Überprüfung ausgewählter Prüfer und Sensoriker (ISO/DIS 8586:2022)

Analyse sensorielle - Lignes directrices générales pour la sélection, l'entraînement et le contrôle des sujets qualifiés et sujets sensoriels experts (ISO/DIS 8586:2022)

Ta slovenski standard je istoveten z:ai/catprEN ISO 8586:2022

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resources

67.240 Senzorična analiza Sensory analysis

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

Analyse sensorielle — Lignes directrices générales pour la sélection, l'entraînement et le contrôle des sujets qualifiés et sujets sensoriels experts

ICS: 67.240; 03.100.30

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Reference number ISO/DIS 8586:2022(E)

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#### **Foreword**

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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 <a href="www.iso.org/directives">www.iso.org/directives</a>).

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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 <a href="https://www.iso.org/iso/foreword.html">www.iso.org/iso/foreword.html</a>.

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

This second edition of ISO 8586 cancels and replaces ISO 8586:2012. https://standards.iteh.ai/catalog/standards/sist/6a46eed9-

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#### Introduction

A sensory analysis panel constitutes a true "measuring instrument", and consequently the results of the analysis depend on its members.

The recruitment of persons willing to participate in a panel therefore needs to be carried out with care and to be considered as a real investment, both in time and money.

Sensory assessment can be performed by four types of assessors (Figure 1):

- Naïve sensory assessors;
- Screened sensory assessors;
- Trained sensory assessors;
- Expert sensory assessors.

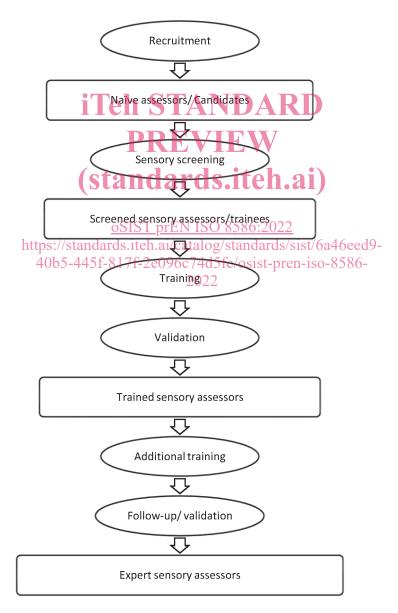


Figure 1 — Recruitment, screening and training process of sensory assessors

It is necessary to undertake a preliminary selection of the candidates at the recruitment stage, in order to eliminate those who would be unsuited for sensory analysis. The final selection can be made after screening and ultimately training. The selection and training methods to be employed depend on the tasks intended for the "trained sensory assessors" and "expert sensory assessors".

Sensory assessors work as a panel which is managed by a panel leader. In certain cases (especially for descriptive sensory analysis), the panel may be divided into specialized subgroups.

The recommended procedure for the recruitment of a sensory panel involves:

- a) recruitment and preliminary screening of naive assessors/candidates;
- b) screening of naive assessors/candidates, selection of whom are to become screened sensory assessors/trainees;
- c) training and validation of screened sensory assessors, selection of whom then become trained sensory assessors;
- d) possible additional training of trained sensory assessors to become expert sensory assessors.

The exact procedures covered by a) and b) and the nature of the tests performed in c) and d) depend on the tasks intended for the panel.

The panel leader is responsible for the general follow-up of the group of expert sensory assessors and for their training. The expert sensory assessors are not responsible for the choice of tests used, the presentation of the samples or for the interpretation of results. These matters are the responsibility of the panel leader who also decides how much information is given to the panel.

The performance of selected assessors should be monitored regularly to ensure that the criteria by which they were initially selected continue to be met. For monitoring and validation procedures see ISO 11132.

The entire process for the recruitment of a sensory panel is illustrated in Figure 1.

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

WARNING — This document does not address any safety issues that may be associated with its use. Appropriate safety practices need to be dictated by the user. Compliance with any national regulatory statutes is the responsibility of the user.

#### 1 Scope

This International Standard specifies criteria for the selection and procedures for the training of trained sensory assessors and expert sensory assessors for food and beverages, as well as home and personal care products. This standard supplements the information given in ISO 6658.

#### 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 5492:2008, Sensory analysis — Vocabulary

ISO 6658, Sensory analysis — Methodology & General guidance 21)

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

ISO 3972, Sensory analysis and Methodology of Method of investigating sensitivity of taste

ISO 5496, Sensory analysis — Methodology 6c74d5fc/osistanten and training of assessors in the detection and recognition of odours

ISO 11036, Sensory analysis — Methodology — Texture profile

ISO 11132, Sensory analysis — Methodology — Guidelines for the measurement of the performance of a quantitative descriptive sensory panel

ISO 13299, Sensory analysis — Methodology — General guidance for establishing a sensory profile

#### 3 Terms and definitions

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <a href="https://www.iso.org/obp">https://www.iso.org/obp</a>
- IEC Electropedia: available at <a href="https://www.electropedia.org/">https://www.electropedia.org/</a>

#### 3.1

#### sensory assessor

any person taking part in a sensory test

Note 1 to entry: A naive assessor is a person who does not meet any particular criterion.

Note 2 to entry: An initiated assessor has already participated in a sensory test.

#### 3.2

#### screened sensory assessor

sensory assessors who have been screened for their sensory abilities

#### 3.3

#### trained sensory assessor

sensory assessors who have been trained for a method or methods

#### 3.4

#### expert

in the general sense, a person who, through knowledge or experience, has competence to give an opinion in the fields about which he/she is consulted

#### 3.5

#### expert sensory assessor

sensory assessor with a demonstrated sensory sensitivity and with considerable training and experience in sensory testing, who is able to make consistent and repeatable sensory assessments of various products

#### 3.6

#### panel training

series of sessions in which assessors are oriented to the tasks to be completed by a sensory panel and practice assessing particular product(s), which may include relevant product characteristics, standard rating scales, techniques of evaluation and terminology

#### 3.7

#### sensory panel

group of assessors participating in a sensory test standards.iteh.ai)

#### 3.8

#### panel consensus

agreement (individual rating and agreement check or shared ratings and discussion-based agreement) among assessors regarding terminology and intensity of product characteristics do

#### 3.9

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#### repeatability

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the ability of an assessor to repeat their own results

Note 1 to entry: Repeatability related to sensory analysis is defined as a measure of the agreement between assessments on the same sample under the same conditions.

#### 3.10

#### repeatability conditions

observation conditions where independent test/measurement results are obtained with the same method on identical test/measurement items in the same test facility or measuring facility by the same observer using the same equipment within short intervals of time

Note 1 to entry: Repeatability conditions include:

- the same measurement procedure or test procedure;
- the same observer;
- the same measuring or test equipment used under the same conditions;
- the same location;
- repetition over a short period of time.

Note 2 to entry: Short intervals of time related to sensory analysis are defined as the repetition over the same session.

[SOURCE: ISO 3534-2:2006, 3.3.6]

#### 3.11

#### reproducibility

agreement in assessments of the same products under different test conditions or by different assessors or panels

Note 1 to entry: Reproducibility may be measured as any of the following:

- the reproducibility of a panel (or an assessor) in the short term, measured between two or more sessions separated by several days;
- the reproducibility of a panel (or an assessor) in the medium or long term, measured among sessions separated by several months;
- the reproducibility between different panels, in the same laboratory or in different laboratories.

#### 3.12

#### reproducibility conditions

observation conditions where independent test/measurement results are obtained with the same method on identical test/measurement items in different test or measurement facilities with different operators using different equipment

Note 1 to entry: Reproducibility conditions related to sensory analysis may include using the same method during different times (sessions), different environments, facilities, and panels.

[SOURCE: ISO 3534-2:2006, 33311] h STANDARD

#### 3.13

#### session PREVIEW

period of time where the assessors work on a specific task or evaluate a number of samples, either individually or as a group

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Note 1 to entry: A session typically spans from 30 min-2 h.

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#### 4.1 General

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The following general characteristics are desirable for willing candidates for training:

- a) they shall be motivated and interested in further developing their sensory skills;
- b) they shall be able to participate;
- c) they shall not have any sensory impediments related to the purpose of the test.

#### 4.2 Recruitment

#### 4.2.1 General

To recruit candidates and to screen those most suitable for training, follow 4.2.2 to 5.7.

#### 4.2.2 Recruitment

There are three important considerations for the recruitment of people for a sensory panel:

- Where should people be recruited from to constitute the group?
- How many people shall be selected?
- How shall the people be selected?