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



### EESTI STANDARDI EESSÕNA

### NATIONAL FOREWORD

See Eesti standard EVS-EN ISO 11132:2017 sisaldab Euroopa standardi EN ISO 11132:2017 ingliskeelset teksti.	This Estonian standard EVS-EN ISO 11132:2017 consists of the English text of the European standard EN ISO 11132:2017.	
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.	
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 24.05.2017.	Date of Availability of the European standard is 24.05.2017.	
Standard on kättesaadav Eesti Standardikeskusest.	The standard is available from the Estonian Centre for Standardisation.	

Tagasisidet standardi sisu kohta on võimalik edastada, kasutades EVS-i veebilehel asuvat tagasiside vormi või saates e-kirja meiliaadressile <u>standardiosakond@evs.ee</u>.

### ICS 67.240

Standardite reprodutseerimise ja levitamise õigus kuulub Eesti Standardikeskusele

Andmete paljundamine, taastekitamine, kopeerimine, salvestamine elektroonsesse süsteemi või edastamine ükskõik millises vormis või millisel teel ilma Eesti Standardikeskuse kirjaliku loata on keelatud.

Kui Teil on küsimusi standardite autorikaitse kohta, võtke palun ühendust Eesti Standardikeskusega: Koduleht <u>www.evs.ee</u>; telefon 605 5050; e-post <u>info@evs.ee</u>

The right to reproduce and distribute standards belongs to the Estonian Centre for Standardisation

No part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying, without a written permission from the Estonian Centre for Standardisation.

If you have any questions about copyright, please contact Estonian Centre for Standardisation:

Homepage www.evs.ee; phone +372 605 5050; e-mail info@evs.ee

### EUROPEAN STANDARD NORME EUROPÉENNE

**EN ISO 11132** 

**EUROPÄISCHE NORM** 

May 2017

ICS 67.240

### **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)

This European Standard was approved by CEN on 31 January 2017.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION COMITÉ EUROPÉEN DE NORMALISATION EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

### **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.

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

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

### **Endorsement notice**

The text of ISO 11132:2012 has been approved by CEN as EN ISO 11132:2017 without any modification.

Con	tents	Page
Forew	vord	iv
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Principle	2
5	Experimental conditions	4
6	Qualification of assessors	4
7 7.1 7.2 7.3 7.4 7.5 7.6 7.7 7.8 7.9 7.10	Procedure	
Annex	x A (informative) Example of practical application	11
Annex	x B (informative) Example of use of cusum analysis	18
Annex	x C (informative) Example of use of Shewhart chart	21
@ IOO 0	2042. All sights appeared	:::

## 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.

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

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