

<b>STN</b>	<b>Senzorická analýza Metodika Skúška duo-trio (ISO 10399: 2017)</b>	<b>STN EN ISO 10399</b>  56 0039
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Sensory analysis - Methodology - Duo-trio test (ISO 10399:2017)

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

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**Sensory analysis - Methodology - Duo-trio test (ISO 10399:2017)**Analyse sensorielle - Méthodologie - Essai duo-trio  
(ISO 10399:2017)

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**EN ISO 10399:2018 (E)**

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## **European foreword**

This document (EN ISO 10399:2018) has been prepared by Technical Committee ISO/TC 34 "Food products".

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of an identical text or by endorsement, at the latest by July 2018, and conflicting national standards shall be withdrawn at the latest by July 2018.

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### **Endorsement notice**

The text of ISO 10399:2017 has been approved by CEN as EN ISO 10399:2018 without any modification.



**INTERNATIONAL  
STANDARD**

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**Sensory analysis — Methodology —  
Duo-trio test**

*Analyse sensorielle — Méthodologie — Essai duo-trio*



Reference number  
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## ISO 10399:2017(E)



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## ISO 10399:2017(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](http://www.iso.org/directives)).

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Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on 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 the following URL: [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html).

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

This third edition cancels and replaces the second edition (ISO 10399:2004), of which it constitutes a minor revision. The references have been updated, the definition for [3.6](#) has been replaced and an expression in [A.3](#) has been corrected.

# Sensory analysis — Methodology — Duo-trio test

## 1 Scope

This document specifies a procedure for determining whether a perceptible sensory difference or similarity exists between samples of two products. The method is a forced-choice procedure. The method is applicable whether a difference exists in a single sensory attribute or in several attributes.

The method is statistically less efficient than the triangle test (described in ISO 4120) but is easier to perform by the assessors.

The method is applicable even when the nature of the difference is unknown (i.e. it determines neither the size nor the direction of difference between samples, nor is there any indication of the attribute(s) responsible for the difference). The method is applicable only if the products are fairly homogeneous.

The method is effective for

- a) determining that
  - 1) either a perceptible difference results (duo-trio testing for difference), or
  - 2) a perceptible difference does not result (duo-trio testing for similarity) when, for example, a change is made in ingredients, processing, packaging, handling or storage, and
- b) for selecting, training and monitoring assessors.

Two forms of the method are described:

- the constant-reference technique, used when one product is familiar to the assessors (e.g. a sample from regular production);
- the balanced-reference technique, used when one product is not more familiar than the other.

## 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, *Sensory analysis — Vocabulary*

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

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