
**Sensory analysis — Methodology
— General guidance for conducting
hedonic tests with consumers in a
controlled area**

*Analyse sensorielle — Méthodologie — Lignes directrices générales
pour la réalisation d'épreuves hédoniques effectuées avec des
consommateurs dans un espace contrôlé*



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Contents

	Page
Foreword	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Preliminary considerations	3
4.1 Study proposal.....	3
4.2 Specification of the target population.....	4
4.3 Further specifications.....	4
5 The consumer sample	5
5.1 General.....	5
5.2 Recruiting the consumers.....	5
5.3 Assembling a consumer sample.....	7
5.4 Sample segmentation.....	7
6 Size of the consumer sample	8
6.1 Decisions of measurement.....	8
6.2 Determining the sample size.....	8
6.3 Working with subgroups.....	9
6.4 Number of product samples and experimental design.....	9
6.5 Safety margin in recruitment.....	9
7 Test area	10
8 Products	10
8.1 Anonymous presentation of the products.....	10
8.2 Preparation and presentation of the products.....	10
9 Procedures	11
9.1 Two groups of hedonic tests.....	11
9.2 Rating tests.....	12
9.3 Paired comparison tests.....	12
9.4 Ranking test.....	13
9.5 Additional questions.....	14
9.6 Instructions for the consumers.....	14
10 Organization of test sessions	15
10.1 General.....	15
10.2 Plans.....	15
10.3 Number of products evaluated in a single session.....	16
10.4 Nature of the products evaluated within a session.....	17
10.5 Time of the session.....	17
10.6 Repetition of a product within a test.....	17
10.7 Pre-test.....	17
11 Analysis of the results	18
11.1 General.....	18
11.2 Inferential analysis.....	18
11.3 Ratings (see 9.2).....	18
11.4 Paired comparisons (9.3).....	18
11.5 Ranking (9.4).....	18

12	Study report	19
12.1	General	19
12.2	Products	19
12.3	Test procedure	20
12.4	Consumers	20
12.5	Results	21
12.6	Annexes to the report	21
Annex A (informative) Example of a recruitment questionnaire		22
Annex B (informative) Methods for evaluating the data of segmentation subgroups		26
Annex C (informative) Plans for assigning products to consumers		28
Annex D (informative) Influence of the sample size on the accuracy of one mean		29
Annex E (informative) Minimum sample size for tests using rating		30
Annex F (informative) Minimum sample size for tests using ranking		34
Annex G (informative) Examples of data analysis for ratings		36
Annex H (informative) Examples of data analysis for rankings		41
Bibliography		43

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 on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: [Foreword - Supplementary information](#)

The committee responsible for this document is ISO/TC 34, *Food products*, Subcommittee SC 12, *Sensory analysis*.

Sensory analysis — Methodology — General guidance for conducting hedonic tests with consumers in a controlled area

1 Scope

This International Standard describes approaches for measuring, within a controlled area, the degree to which consumers like or relatively like products.

It uses tests based on collecting consumers' responses to questions, generally on paper or via a keyboard or a touch screen. Tests of a behavioural nature (such as recording quantities consumed ad libitum by the consumers) do not fall within the scope of this International Standard.

The hedonic tests dealt with in this International Standard, can be used as a contribution to the following:

- comparing a product with competitor products;
- optimizing a product so that it obtains a high hedonic rating or is liked by a large number of consumers;
- helping to define a range of products to correspond to a particular consumer target population;
- helping to define a best-before date;
- assessing the impact of a product formulation change on the pleasure given by the product;
- studying the impact of sensory characteristics of a product on degree to which it is liked, independently of the product's extrinsic characteristics, such as brand, price, or advertising;
- studying the effect of a commercial or presentation variable, such as packaging.

The methods are effective for determining

- whether or not, a perceptible preference exists (difference in degree of liking), or
- whether or not, no perceptible preference (paired similarity test) exists.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 4121, *Sensory analysis — Guidelines for the use of quantitative response scales*

ISO 5492, *Sensory analysis — Vocabulary*

ISO 5495, *Sensory analysis — Methodology — Paired comparison test*

ISO 8587, *Sensory analysis — Methodology — Ranking*

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

ISO 29842, *Sensory analysis — Methodology — Balanced incomplete block designs*

3 Terms and definitions

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