PURPOSE

This document supplements ISO/IEC 17025, and provides specific guidance on the accreditation of sensory testing laboratories for both assessors and laboratories preparing for accreditation. It gives detailed guidance for the interpretation of ISO/IEC 17025 for those undertaking sensory testing.
Authorship
The publication has been prepared by a working Group of the Laboratory Committee.

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The text may be translated into other languages as required. The English language version remains the definitive version.

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1 INTRODUCTION

1.1. The general requirements for accreditation are laid down in the International Standard General requirements for the competence of testing and calibration laboratories (ISO/IEC 17025). All of these requirements must be met by laboratories seeking accreditation.

1.2. This document has been produced by the EA Laboratory Committee, Food Testing Task Force. This document can be considered as the “Application Document” for sensory testing as set out in Annex B of ISO/IEC 17025. It supplements ISO/IEC 17025, and provides specific guidance on the accreditation of sensory testing laboratories for both assessors and laboratories preparing for accreditation. It gives detailed guidance on the interpretation of ISO/IEC 17025 for those undertaking objective sensory methods. Specific requirements for subjective-hedonic tests are not included in this guide, although some of the requirements established are also applicable. ISO/IEC 17025 remains the authoritative document and, in cases of dispute, each individual accreditation body will adjudicate on unresolved matters.

1.3. References are given to the relevant Sections of ISO/IEC 17025:2005 to allow easy referral.

1.4. Sensory analysis is a scientific discipline used to evoke, measure, analyse and interpret reactions to those characteristics of foods and other materials as are perceived by the senses of sight, smell, taste, touch and hearing. This definition embraces both qualitative and quantitative approaches and does not discriminate between the sensory attributes being assessed by consumers or trained sensory assessors, or objective or subjective sensory questions being asked about products and materials.

1.5. Examples of the application of sensory analysis include:

- shelf-life studies
- product matching
- product mapping
- specification and quality control
- product reformulation
- taint and off odour/flavour potential
- product quality
- product grading

1.6. This document is concerned with the quality of test results and is not specifically concerned with health and safety matters. However, laboratory practices should conform to national health and safety regulations. It is important to note that in some cases health and safety issues may have an effect on quality of testing and the laboratory will be required to take this into account.

1.7. Some definitions of terms commonly used in sensory laboratories are given in Appendix A.
2 SCOPE OF ACCREDITATION

2.1 Accreditation bodies will only accredit laboratories for objective tests that have been fully documented and validated. Each test must be shown to be under control by demonstrating that the laboratory will, within defined limits, obtain the same result, and where possible the laboratory should demonstrate equivalence results with other laboratories.

2.2 Examples of objective tests that are used in sensory analysis and which can be accredited are:

**Discriminative tests**
- e.g. Triangle test
- Paired comparison test
- Duo-trio test
- Ranking

**Descriptive tests**
- e.g. Intensity measurements
- Quantitative descriptive analysis; profile

2.3 It is the responsibility of the laboratory to demonstrate to the accreditation body assessors that, when using these techniques, it meets all of the criteria for accreditation.

2.4 Objective tests are controlled by:

- a) test validation;
- b) test documentation;
- c) training and authorisation of staff carrying out the test;
- d) adequate test facilities;
- e) planning, organisation and operation of the test facility;
- f) maintenance and calibration of equipment;
- g) procedures for the selection, training and re-training of sensory assessors;
- h) on-going quality control (QC) procedures;
- i) on-going individual sensory assessor and panel performance monitoring;
- j) use of appropriate reference and training materials;
- k) data checking procedures;
- l) records of the test performance

2.5 Some subjective tests may be accredited when they are designed to lead to an objective result, such as consumer preference tests. Factors to consider will include scientific selection of test procedures, experimental design, statistical treatment, number of consumers, etc.

2.6 However subjective tests which are solely performed by only one individual will not be accredited as a sensory test.

2.7 Accreditation can cover sectoral, national and international standard methods and fully documented, validated in-house methods.
3 PERSONNEL

3.1 Sensory Laboratory Staff

3.1.1. Personnel who fulfill the three major functions of a sensory analysis laboratory (management/administrative, scientific/technical and operational) may be given titles, such as: sensory analyst, panel leader and panel technicians. The functional level performed, however, is the primary consideration as various titles may be used (definitions for these titles are given in Appendix A). Normally the staff in a sensory laboratory are the panel leader (one or more) and the panel technician and in some cases the sensory analyst. Usually the sensory assessors are not included as staff, their primary function is not related to conducting or managing tests. Their role is described in paragraph 3.3.

The staff in a sensory laboratory shall be authorised by the management and records shall be maintained about their authorisation. The role and responsibilities and the training requirements of all those involved in sensory testing should be documented.

3.1.2. The laboratory shall maintain an up-to-date record of the training that all staff and all sensory assessors have received. The purpose of these records is to provide evidence that everybody involved in the tests has been adequately trained and that their competence to carry out particular accredited tests has been assessed. In some cases, it may be pertinent to state any particular limitations to competence. The records should be available for inspection by the accreditation body if required and should also include:

a) academic qualifications (where relevant);
b) external and internal pertinent courses attended (where relevant);
c) relevant on-the-job training (and re-training as necessary);
d) previous experience.

3.1.3. Where a method or technique is not in regular use, the need to retrain staff periodically should be considered. In each case the critical interval should be established and documented.

3.1.4. The laboratory will also have other staff records, listing personal details. Access to such records may be restricted by national legislation on data protection. Such information will not normally be of interest to accreditation bodies. Detailed guidance on staff responsibilities of sensory evaluation laboratories can be found in ISO 13300-1.

3.2 Panel leader

3.2.1 The laboratory management should define the minimum levels of qualification and experience necessary for the key posts within the laboratory. Sensory analysis must be carried out by, or under the supervision of, a qualified and experienced panel leader possessing relevant qualifications. Normally, staff should possess at least 2 years relevant sensory analysis work experience before being considered as panel leader. Skills required for each staff position should be formalised as a written job description. Detailed guidance on staff recruitment and training can be found in ISO 13300-2.
3.2.2 Training should cover the intended sensory testing area, including at least:

a) selection of test procedures, experimental design and analysis;
b) product preparation and implementation of testing;
c) data input and processing;
d) preparation of reports;
e) maintenance of records;
f) maintenance of all necessary supplies and services;
g) sensory assessor screening, selection, training and monitoring procedures;
h) importance of the assessor's health and safety

3.2.3 In some laboratories, when there is a sensory analyst supervising one or more panel leader some of these areas could be covered by sensory analyst.

3.3. Sensory assessors

A Sensory Analysis Panel constitutes a true measuring instrument, and the results of any analysis conducted depends on its members. The selection and training of sensory assessors needs to be carried out with care (for example, it is possible that the use of "internal assessors" may bias results). Detailed guidance on the recruitment, selection, training and monitoring of candidates intended to become sensory assessors can be found in ISO 8586 (more references appear in Appendix B).

3.3.1 The selection and training of sensory assessors is not applicable to consumers that participate in consumer tests.

Sensory laboratories should have defined ethical principles of using human subjects. The principles should focus on personal safety and voluntariness of the assessors and confidentiality of all private information.

3.3.2 The recommended procedures involve:

a) Recruitment, preliminary screening and initiation to the test
   (i) The recognition and perception of odours and the basic tastes should be confirmed. Where relevant, colour vision, the detection of specific taints/odours and the person's ability to describe product characteristics should also be confirmed. Consideration should be given to the personality and personal habits of the sensory assessor, if these could have a possible influence on the test.

b) Training in general principles and methods
   (i) The areas covered should include the use of the senses, familiarisation with the test procedure, and awareness of the effect of extraneous factors involved such as foods and perfumes. Laboratory should instruct sensory assessors to keep good practices before testing including not using any perfume and not eating and smoking at least one hour before testing.

   (ii) Sensory assessors should be made aware about the types of products which may be involved in the test. Special consideration should be given to the safety of sensory assessors. In addition, dietary, health and ethical considerations of sensory assessors should be recorded.
and taken into account. At all times, sensory assessors should report any ill effects they suffer.

(iii) The selection and training programme must be documented to ensure that all sensory assessors are adequately trained for the tasks they are required to carry out. The programme must define levels of competence and other relevant requirements which shall be attained before sensory assessors are permitted to take part in a test. Where possible, objective measures, for example repeatability, should be used to assess the attainment of competence.

c) Selection for particular purposes

The ability to perform the test procedure should be confirmed. This can be achieved by altering the concentration of a constituent in the sample and recording the results of the test, by the analysis of replicate samples or, for descriptive analysis, by testing using a range of a product type.

d) Monitoring of individuals to ensure satisfactory performance

(i) Comprehensive training records should be maintained for each member of the Sensory Analysis Panel. Individual performance should be monitored on a regular basis after training. Results, along with the date and product assessed, should become a part of the individual performance record. To help with this, the record system should be easily accessible.

(ii) Results should also be monitored to investigate for any fatigue effect. If noted, the number of samples/session or sessions/day should be reduced and recorded

e) Health factors

Health and related factors that might affect the performance of the sensory assessors should be recorded and consideration given to removing the sensory assessor from the test. Factors might include allergic reactions, colds, upset stomachs, toothache, pregnancy, certain medications and psychological stress.

f) Re-training and expulsion as necessary

Procedures and criteria shall exist for re-training if a sensory assessor has not performed a test for a defined period of time, or if his/her results fall outside acceptable limits. The same requirements should be followed as described above in chapter b (iii). The laboratory shall have a practice and documentation of expulsion (removing) a sensory assessor if he/she would not re-qualify for the panel.

Detailed guidance on initiation and training of assessors in the detection and recognition of odours can be found in ISO 5496. General guidance for the selection, training and monitoring of assessors can be found in ISO 8586.
4 ACCOMMODATION AND ENVIRONMENT

ISO 17025 paragraph 5.3

4.1. Environmental conditions are particularly important in sensory work as they have an effect on the results. The laboratory should provide appropriate environmental conditions and controls necessary for the particular test being carried out. The testing must be performed in a specific area dedicated for the purpose. Normally, the sensory facility shall be a quiet area free from distractions and with controlled lighting, partitions between subjects to minimise visual contact, neutral colours for the walls, odour-free surfaces and appropriate ventilation. In addition, a separate area for sample preparation should be provided. The design of test rooms for sensory analysis is covered in ISO 8589.

4.2. Where it is not possible to fulfil the above criteria, for example in consumer tests, it is the responsibility of the laboratory to demonstrate that the procedures in place are suitable for the purpose and do not invalidate the test.

4.3. The laboratory should be aware of the importance of good housekeeping and the cleanliness of the test and preparation areas. If the sample preparation area is not situated near the testing area, attention must be given to the transportation of the samples and the maintenance of the correct serving temperature. The access of sensory assessors to the preparation area should be controlled to avoid the analysis being influenced by visual clues. This is particularly important when the samples are being laid out prior to analysis.

4.4. Environmental conditions required for the analysis should be documented and where they are critical for performing the test they shall be monitored, controlled and recorded appropriately. For example, in temperature-controlled areas a maximum-minimum thermometer or a recording thermometer should be used to demonstrate effective control. These temperature measuring devices should be included in the laboratory calibration programme and the calibration should be traceable to national or international standards via an approved route.

4.5. For tests involving samples not at ambient room temperature, facilities must be available to bring the sample to the correct and homogenous temperature and to maintain it for the required length of time. Records that demonstrate the fulfilment of this requirement should be maintained.

5 TEST METHODS AND METHOD VALIDATION

ISO 17025 paragraph 5.4.

5.1. Wherever possible, a laboratory shall use methods and procedures that are up-to-date and established as standard. Where such methods are not available, or where other methods or procedures are used, the laboratory may be accredited for methods developed in-house or from other sources, provided that the laboratory has documented and appropriately validated and evaluated these methods (ISO/IEC 17025, 5.4.5).

5.2. All methods shall be documented to the extent necessary to ensure proper implementation and consistency of application from one occasion to another. Some standard methods need to be formed in a laboratory procedure. Non-standard
methods and procedures should contain all information necessary for the proper performance of the test. The minimum information required to be included in such a non-standard method or procedure is indicated in the Note of 5.4.4. of ISO/IEC 17025, but a sensory test method should also include:

a) method or type of test  
b) sensory assessor training requirements;  
c) sample preparation and presentation;  
d) sensory panel composition;  
e) monitoring and performance of assessors  
f) special environmental conditions and facilities;  
g) methods of statistical analysis of results;

5.3. In order to ensure that the same procedure is always applied to the same sensory problem, a procedure for determining the applicable test method and the strategy of analysis must be formalised. The procedure should define the route and each step in this process and identify the personnel responsible for each step, and all the process should be adequately documented.

5.4. Where appropriate, effects such as sensory assessor fatigue, session fatigue and sensory assessor comfort should be addressed by careful attention to experimental design, a balanced presentation of samples and, where necessary, allowing sufficient time between tests.

5.5. Sensory assessor safety is of paramount importance and should have precedence over all other considerations.

5.6. Standard methods should be verified for the use of the laboratory. Methods developed in-house, including modifications of standard methods and methods for specific food products, should be validated to ensure that they are suitable for the intended purpose. The whole test procedure, covering the method, the sensory team and the statistical processing of data, shall be evaluated. Validation should include procedures for sample storage, handling, preparation and presentation. Each laboratory should determine the individual requirements for the performance characteristics of a particular method, and produce validation data to prove the method meets these requirements. Depending on the method used, the following could be of particular importance:

a) reproducibility/repeatability;  
b) discrimination of samples;  
c) sensitivity;  
d) detection threshold;  
e) comparison against existing methods;  
f) inter-laboratory tests.

6 **UNCERTAINTY OF MEASUREMENT**

ISO 17025 paragraph 5.4.6.

Sensory tests are usually supported by statistical data elaboration which establishes the level of significance of the results.

Moreover, sensory tests come into the category of those that preclude the rigorous, metrologically and statistically valid calculation of uncertainty of measurement.
In some cases, when a numerical result is expressed, it could be possible to base the estimation of uncertainty on repeatability and reproducibility data alone. In these cases the individual components of uncertainty should be identified and demonstrated to be under control. The estimation of the uncertainty depends on the method used and the objectives evaluated and their importance in the quality and significance of the final result.

7 **RECORDS**

ISO 17025 paragraph 4.13.2.

7.1 The records for each test should include all the information needed to ensure that any test could be repeated in conditions as near as possible to the original test. In sensory testing the following sets of information/parameters/details are specially important:

a) instruction sheets/questionnaires given to the sensory assessors;
b) analysis results sheets or reference to computer file;
c) timing between samples;
d) sub-sample identification codes;
e) sample preparation method and equipment used;
f) identity of the personnel preparing the samples;
g) order and details of presentation to individual sensory assessors;
h) identity of the sensory assessors and their relevant qualification level for the performed method;
i) description of consumers in consumer tests;
j) identity of the panel leader or sensory analyst;
k) data collection method;
l) method of statistical analysis.

7.2 Regarding computers and software used for statistical analysis the laboratory shall ensure that:

a) Computer software developed by the laboratory has been adequately validated as adequate for use. Commercial of the shelf software in general use and within the designed application range can be considered to be sufficiently validated, however calculations and data transfer shall be subject to appropriate checks in a systematic manner
b) Procedures are established and implemented to protect data

8 **EQUIPMENT**

ISO 17025 paragraph 5.5.

8.1 Regular maintenance and performance checks should be carried out to ensure that equipment meets the required performance specifications. The importance of good housekeeping with respect to equipment is emphasised. Attention should be paid to the possibility of contamination arising from the equipment or cross-contamination from previous use. Equipment that is not directly used in analysis or examination, for example washing machines and water purifiers, should be subject to an appropriate programme of maintenance and cleanliness. Records of maintenance should be kept.

8.2 Equipment normally found in the sensory analysis laboratory can be categorised as:
a) **Sample preparation and storage equipment** (eg ovens, hobs, microwave ovens, refrigerators, cold stores, freezers, food processors, knives, cutting devices)

   (i) Typically, equipment will be maintained only by cleaning and conducting safety checks as necessary. Calibrations or performance checks will be necessary where the setting can significantly affect the test result.

   (ii) The performance of heating units will depend on a number of variables. If critical, it may be necessary to establish heating profiles and to provide clear instructions on the use of the heating units based on those profiles. Temperature distribution studies within ovens may also need to be undertaken.

b) **Measuring instruments and equipment** (thermometers, timers, balances, flasks, devices for maintaining a specified temperature of the sample, etc.)

   Correct use, combined with periodic servicing, cleaning, and, where appropriate, calibration will be necessary.

c) **Sample serving equipment**

   The form this equipment takes is dictated by the samples and the test method. In some testing standards, specific testing devices are required. All containers must be identical in any one sensory analysis session. Glass or pottery utensils must be cleaned thoroughly before use and kept solely for the purpose of sensory analysis. Where plastic cups and utensils are used, it should be checked that they will not impart a taint. The use of marker pens which give off a strong odour are to be avoided when coding the sample containers.

d) **Computers**

   Requirements for safeguarding hardware and software from adjustments which would invalidate results. Regarding software see 7.2.

9 **REFERENCE MATERIALS AND CHEMICAL STANDARDS**

ISO 17025 paragraph 5.6.3.

9.1 Where appropriate reference materials are available (**including certified reference materials**) they should be used in training sensory assessors, monitoring laboratory performance, validating methods, and to enable comparison of methods. For many types of analysis, training may be carried out using standards prepared within the laboratory from chemicals of known purity and composition; in other instances it may be necessary to use representative foods or other materials.

9.2 Reference materials and chemical standards should be labelled clearly so that they are identified unambiguously. Information should be available to indicate shelf life, storage conditions, applicability and restrictions of use. All containers should be adequately labelled to indicate identity, concentration, date of preparation and/or expiry date. Reference materials and standards should be handled in such a way as to safeguard against contamination. Personnel responsible for preparation and handling should be identifiable from records.
10. **SAMPLING**

ISO 17025, paragraph 5.7.

10.1. In many cases, testing laboratories are not responsible for primary sampling to obtain test items. Where they are responsible, it is strongly recommended that this sampling be covered by quality assurance and ideally by accreditation.

10.2. Transport and storage should be under conditions that maintain the integrity of the sample (e.g. chilled or frozen where appropriate). The conditions should be monitored and records kept. Where appropriate, responsibility for transport, storage between sampling and arrival at the testing laboratory shall be clearly documented. Testing of the samples should be performed as soon as possible after sampling and should conform to relevant standards and/or national/international regulations.

10.3. Sampling should only be performed by trained authorised personnel. It should be carried out using properly clean equipment. Environmental conditions that could affect the assessors performance and the sample properties should be monitored and recorded at the sampling site. The time and date of sampling should be recorded.

11 **SAMPLE HANDLING AND PREPARATION**

ISO 17025, paragraph 5.8

11.1 Sample packaging, and instruments used for sample manipulation, should be selected so that no surface in contact with the sample will impart any taint or introduce any microbiological or chemical hazard. The seal of the sample package should be adequate to prevent leakage of the sample from the container and prevent contamination.

11.2 The sample label is important and should unambiguously identify the sample to related plans and sample register. Further into the analytical process, labelling becomes particularly important as the sample may have been divided and subsampled. At that stage, additional information such as references to the main sample and to any processes used to take the sub-sample, may be appropriate. Labelling should be firmly attached to the sample packaging and where appropriate, be resistant to fading, sample spillage, and reasonable extremes of temperature and humidity.

11.3 Samples should be stored so that the integrity of the samples is preserved. Storage areas should be kept clean and organised. Extremes of environmental conditions, which might change the sensory attributes of the samples, should be avoided. If necessary, environmental monitoring should be used. An appropriate level of security should be exercised to restrict unauthorised access to the samples.

11.4 Food samples submitted for analysis may often require special storage conditions such as refrigeration or freezing. In such cases, laboratories should store samples under appropriate conditions and maintain, monitor and record such conditions in order to demonstrate that specific requirements are being met.
11.5. It is of paramount importance to develop written procedures that include all the details of sample preparation (cutting, unfreezing, toasting, boiling, cooking, roasting… when used). These descriptions should be as comprehensive as possible to ensure that any sample will be treated always in the same way, which will improve the repeatability of results. For example when boiling potatoes: amount of water, salt, time of cooking, average size of potatoes, etc. should be described.

11.6. The laboratory should establish procedures for handling and preparing any new sample types.

11.7. The laboratory should have a documented policy for the retention and disposal of samples after testing.

12 QUALITY CONTROL

ISO 17025, paragraph 5.9.

12.1. Internal quality control

12.1.1. Laboratories shall employ appropriate quality control procedures as a means of monitoring day-to-day performance of each sensory method and individual sensory assessors. Quality control schemes adopted by the laboratory will vary according to the type of sample, methods of analysis and frequency of determination. However, the level of quality control should be sufficient to demonstrate the validity of results.

12.1.2. Examples of the ways in which quality control may be carried out include:

   a) replicate analysis of samples performed as a defined percentage of the total samples analysed;
   b) random repeat samples (including samples with different results) introduced into the sample analysis system at appropriate intervals;
   c) reference and characterised materials used as a part of a quality control system.

12.1.3 The level and type of quality control will depend on the nature of the analysis, frequency of analysis, and test difficulty and reliability. As a guide, the level of quality control could be between 5% and 10% of the sample tested, although a greater percentage may be required for more complex procedures.

12.1.4. The performance of individual sensory assessors should also be monitored as part of the internal quality control scheme.

12.1.5. All QC measures should be clearly defined in the quality documentation.

12.2. External quality assessment (proficiency testing)

If available, laboratories should participate in proficiency testing which are relevant to their scope of accreditation, preference should be given to
proficiency testing schemes which use appropriate matrices. In specific instances, participation may be mandatory.

Laboratories should use external quality assessment not only to assess laboratory bias but also to check the validity of the whole quality system.
**APPENDIX A - DEFINITION OF TERMS**

**Basic tastes**
Any one of the distinctive tastes: acid/sour, bitter, salty, sweet, umami

**NOTE:** Other tastes that may be classified as basic are alkaline and metallic.

**Bias**
Systematic errors, which may be positive or negative.

**Classification**
Method of sorting into predefined nominal categories.

**Confidence interval**
The limits within which the true value of a population parameter is stated to lie with a specified probability e.g. 95% confidence.

**Consumer**
Person who uses a product.

**Control**
A sample of the material under test, chosen as a reference point against which all other samples are compared.

**Detection threshold**
Minimum value of a sensory stimulus needed to give rise to a sensation. The sensation need not be identified.

**Difference test**
Any method of test involving comparison between samples.

**Discrimination**
Act of qualitative and/or quantitative differentiation between two or more stimuli.

**Duo-trio test**
Method of difference testing in which the control is presented first, followed by two samples, one of which is the same as the control sample. The assessor is asked to identify the sample which is either the same as, or different from, the control.

**Grading**
Usual general term used to designate the following methods: ranking, classification, rating and scoring.

**Hedonic**
Relating to like or dislike.

**Objective method**
Any method in which the effects of personal opinions are minimised.

**Off-flavour**
An atypical flavour, often associated with deterioration or transformation of the product.

**Off-odour**
An atypical odour, often associated with deterioration or transformation of the product.

**Paired comparison test**
Method in which stimuli are presented in pairs for comparison on the basis of some defined attributes.

**Panel**
Group of assessors chosen to participate in a sensory test.
Panel leader  Person whose primary duties are to manage panel activities, recruit, train and monitor the assessors. This person also may design and conduct sensory tests, and analyse and interpret data. May be assisted by one or more panel technicians.

Panel technician  Person who fulfils the operational functions by assisting the panel leader or sensory analyst in performing sensory tests, including necessary preparation measures before the test and activities after the test e.g. waste disposal.

Perception  Awareness of the effects of single or multiple sensory stimuli.

Preference test  Test to assess preference between two or several samples.

Basic tastes  Any one of the distinctive tastes: acid/sour, bitter, salty, sweet, umami

NOTE: other tastes that may be classified as basic are alkaline and metallic

Product  Edible or inedible matter which can be evaluated by a sensory analysis.

Profile/quantitative descriptive analysis  The use of descriptive terms in evaluating the sensory attribute of a sample and the intensity of each attribute.

Qualitative sensory analysis  Description of the sensory properties of the products.

Quantitative sensory analysis  Measurement of perceived amount of each attribute in the product.

Questionnaire  A form having a set of questions designed to obtain information.

Ranking  Method of classification in which a series of samples is placed in order of intensity or degree of some specified attribute. This process is ordinal, with no attempt made to assess the magnitude of the differences.

Rating  Method of classification according to categories, each of which is placed on an ordinal scale.

Reference  Substance, other than the material under test, used to define an attribute or a specified level of a given attribute.

Replicate  To evaluate a sample more than once.

Sample  i) A product type.
       ii) One piece for evaluation.

Scoring  Method of evaluation of a product or of the attributes of a product by means of scores (having a mathematical significance).
Scaling  Process of assigning a position within a given scale.

Screening  Preliminary selection procedure.

Sensory  Relating to the use of the sense organs.

Sensory analysis  Examination of the sensory attributes of a product perceptible by the sense organs.

**Sensory analyst**  Person who fulfils scientific professional functions, who may supervise one or more panel leaders, designs and conducts sensory studies, and analyses and interprets the resulting data.

**Sensory assessor**  Any person taking part in a sensory test.

Note: a naive assessor is a person who does not meet any particular criterion. An initiated assessor has already participated in a sensory test.

Sensory fatigue  Form of sensory adaptation in which a decrease in sensitivity occurs. Sensory adaptation is a temporary modification of the sensitivity of a sense organ due to continued and/or repeated stimulation.

Subjective method  Any method in which personal opinions are taken into consideration.

Taint  Taste or odour foreign to the product.

Triangular test  Method of difference testing involving the simultaneous presentation of three coded samples, two of which are identical. The sensory assessor is asked to select the sample perceived as different.

**SOURCES**

ISO 5492 *Sensory analysis vocabulary*

**APPENDIX B** - REFERENCES

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