
**Tea — Preparation of liquor for use in
sensory tests**

Thé — Préparation d'une infusion en vue d'examens organoleptiques

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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).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

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

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 www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 34 *Food products*, Subcommittee SC 8, *Tea*.

This second edition cancels and replaces the first edition (ISO 3103:1980), which has been technically revised. The main changes compared with the previous edition are as follows.

- Revisions have been made to reflect the increasing commercial trade in different types of *Camellia sinensis*-based tea. This document allows for teas where there are current International Standards (black and green) to be assessed in a common framework with the same hardware.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Tea — Preparation of liquor for use in sensory tests

1 Scope

This document specifies a method for the preparation of a liquor of tea for use in sensory tests, by means of infusing the leaf.

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 1839, *Tea — Sampling*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

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

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

3.1

liquor

solution prepared by extraction of soluble substances from dried tea leaf, under the conditions described

3.2

infused leaf

tea leaf from which *liquor* (3.1) has been prepared

3.3

black tea

tea derived solely and exclusively, and produced by acceptable processes, notably withering, leaf maceration, aeration and drying, from the tender shoots of varieties of the species *Camellia sinensis* (L.) O. Kuntze, known to be suitable for making tea for consumption as a beverage

[SOURCE: ISO 3720:2011, 3.1]

3.4

green tea

tea derived solely and exclusively, and produced by acceptable processes, notably enzyme inactivation and commonly rolling or comminution, followed by drying, from the tender leaves, buds, and shoots of varieties of the species *Camellia sinensis* (L.) O. Kuntze, known to be suitable for making tea for consumption as a beverage

[SOURCE: ISO 11287:2011, 3.1]

4 Principle

Extraction of soluble substances in dried tea leaf, contained in a porcelain or earthenware pot, by means of freshly boiling water, pouring of the liquor into a white porcelain or earthenware bowl, examination of the organoleptic properties of the infused leaf, and of the liquor with or without milk or both.

5 Apparatus

5.1 Pot of white porcelain or glazed earthenware, with its edge partly serrated (see [Figure A.1](#)) and provided with a lid, the skirt of which fits loosely inside the pot.

5.2 Bowl, of white porcelain or glazed earthenware.

Various sizes of pot and bowl can be used, but it is recommended that one of the two sizes shown in [Annex A](#), and depicted in [Figure A.1](#), be adopted.

6 Sampling

Sampling shall be carried out in accordance with ISO 1839.

7 Procedure

7.1 Test portion

Weigh, to an accuracy of $\pm 2\%$, a mass of tea required according to [Table 1](#) and transfer it to the pot ([5.1](#)).

7.2 Preparation of liquor

7.2.1 Preparation without milk

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Table 1 — Preparation without milk

Type of tea	Test portion	Temperature of water	Brew time
Black	2 g tea per 100 ml 5,6 \pm 0,1 g (large pot) 2,8 \pm 0,05 g (small pot)	Boiling (approx. 100 °C)	6 min
Green	2 g tea per 100 ml 5,6 \pm 0,1 g (large pot) 2,8 \pm 0,05 g (small pot)	Boiling (approx. 100 °C)	Leafy type: 5 min Fannings type: 3 min

Fill the pot containing the tea with water of the appropriate temperature (see [Table 1](#)) to within 4 mm to 6 mm of the brim (i.e. corresponding approximately to 285 ml in the case of the large pot and 140 ml in the case of the small pot, as described in [Annex A](#)) and put on the lid. Allow the tea to brew for the appropriate time (see [Table 1](#)) and then, holding the lid in place so that the infused leaf is held back, pour the liquid through the serrations into the bowl ([5.2](#)) corresponding to the pot selected. Remove and invert the lid, transfer the infused leaf to it and place the inverted lid on the empty pot to allow the infused leaf to be inspected. In the case of fine, powdery dust grades, special care should be taken and a sieve can be required.

The flavour and appearance of the liquor are affected by the hardness of the water used. The water used for the test should therefore be similar to the drinking water in the area where the tea is to be consumed. In exceptional cases, for example when comparative tests are required to be made in different areas and it is not possible to procure similar waters or suitable ordinary water for this purpose, distilled water or deionized water may be used. It should be recognized, however, that the results will not then