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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 12311-2012

Replacing GB/T 12311-1990

Sensory analysis method -- Triangle test

感官分析方法 三点检验

(English Translation)

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Foreword

Rules of the criteria based on GB/T 1.1-2009 given draft.

This standard replaces GB/T 12311-1990 "Sensory Analysis Three test." Compared with GB/T 12311-1990, the main technical Surgery changes are as follows.

--- Added "Terms and Definitions", "principle", "assessors" (see Chapter 3, Chapter 4 and Chapter 6);

--- Remove the "Method Synopsis", "equipment" and "sampling" (see the 1990 edition of Chapter 3, Chapter 4 and Chapter 5);

--- "Test conditions and requirements" itemized the specific conditions (see Chapter 5), rather than reference to other standards (1990 version 6.1 Reference GB/T 10220);

--- Content on evaluation officer asked as separate terms described in detail (see Chapter 6);

--- "Test step" and "the results and interpretation of the expression" (see the 1990 edition of Chapters 7 and 8) is changed to "program" and "Analysis and the expression "(see Chapters 7 and 8);

--- Added "precision and bias" (see Chapter 10);

--- Deleted Appendix A, Appendix B "answer format," adds statistical tables and examples.

This revised standard adopts ISO 4120:2004 "Sensory Analysis Methodology three o'clock check" (in English) and ISO 4120.. 2004 phase Ratio, this standard has been adjusted technical differences, specific adjustments are as follows.

a) on "Normative references".

--- With GB/T 10221 instead of ISO 5492:1992;

--- With GB/T 13868 instead of ISO 8589. 1988;

--- Increasing the GB/T 10220, GB/T 14195, GB/T 16291.2 and GB/T 17321;

b) Delete the ISO standard foreword, preface increased our standards.

This standard is proposed and managed by the People's Republic of China Ministry of Agriculture.

This standard was drafted. Quality Standards and Testing Institute of Agricultural Technology Chinese Academy of Agricultural Sciences, the Ministry of Agriculture Food Quality Supervision and Testing Center (Jinan).

1 Scope

This standard specifies the difference in determining whether a perceptible sensory or similar method exists between samples of two products. This standard method Forced Choice program.

This standard applies to one or more sensory index difference between the presence or absence of judgment.

This standard applies to differences in the characteristics determined (ie the difference is neither determined by the difference between the sample size and scope, there is no difference on behalf of any feature shown). This standard applies only to a completely homogenous sample.

This standard applies to the following.

a) determining

--- Produce appreciable difference (three-point difference test);

--- Appreciable difference (three dots similar test) did not produce, for example. When the ingredients, technology, packaging, transport or storage there is a change of the time.

b) Preferably, training and inspection assessor the standard statistically than two - three inspection (by the GB/T 17321 regulations) more effective, but limited to finish strong and

(or) palate the use of long-lasting products.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated edition applies to this article Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 10220 Sensory Analysis Subjects (GB/T 10220-2012, ISO 6658:2005, IDT) GB/T 10221 terminology Sensory analysis (GB/T 10221-2012, ISO 5492:2008, MOD) GB/T 13868 Sensory analysis sensory analysis laboratory to establish general guidelines (GB/T 13868-2009, ISO 8589:2007, IDT) GB/T 16921.1 sensory analysis selection, training and monitoring of assessors general guidelines selected assessors (GB/T 16921.1-2012, ISO 8586-1:1993, MOD) GB/T 16291.2 sensory analysis selection, training and monitoring of assessors general guidelines - Part 2. Expert reviewers (GB/T 16291.2-2010, ISO 8586-2:2008, IDT) GB/T 17321 Sensory Analysis Method two - three test (GB/T 17321-2012, ISO 10399:2004, MOD)

3 Terms and Definitions

GB/T 10221 and define the following terms and definitions apply to this document.

alpha- risk when there is no difference between the senses, to infer the probability of sensory differences exist.

Note: This is also known as Type I error, significance level or false positive rate.