

CODEX ALIMENTARIUS COMMISSION



Food and Agriculture
Organization of the
United Nations



World Health
Organization

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Agenda Items 3.2, 5.1 and 9

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ORIGINAL LANGUAGE ONLY

JOINT FAO/WHO FOOD STANDARDS PROGRAMME CODEX COMMITTEE ON METHODS OF ANALYSIS AND SAMPLING

44th Session

Virtual

5 – 8 May and 14 May 2025

COMMENTS OF NIGERIA

AGENDA ITEM 3.2: ENDORSEMENT OF METHODS OF ANALYSIS AND SAMPLING PLANS FOR PROVISIONS IN CODEX STANDARDS - OTHER RELEVANT MATTERS ARISING FROM THE AMENDMENT OF CXS 234-1999

Nigeria appreciates the Codex Secretariat for the work done in preparing this document and propose the following amendments on part 1:

1. Nigeria proposed deletion of “ISO 3961:1998” and recommend “**ISO 3960:2017**” as the test method for determining provision for propose the peroxide value on Edible Fats and Oils not Covered by Individual Standards

2. Nigeria also proposed deletion of “~~BS 684 Section 2.65~~” and recommend “**BS 684 Section 2.5**”

Part 1:

Commodity	Provision	Method	Principle	Type
<u>Fats and oils</u>				
3. Edible Fats and Oils not Covered by Individual Standards	Peroxide Value	ISO 3961:1998 <u>ISO 3960:2017</u>	Titrimetry	I
4. Edible Fats and Oils not Covered by Individual Standards	Soap content	BS 684 Section 2.65 <u>2.5</u>	Titrimetry	I

Rationale

Proposed methods are easier to follow, cheaper, easier to reference, less bulky and less cumbersome.

AGENDA ITEM 5.1: REVIEW OF METHODS OF ANALYSIS IN CXS 234: FRUIT JUICES WORKABLE PACKAGE

Nigeria appreciates the work done by Germany in preparing this document and propose the following amendments on Annex II:

Annex II

Ascorbic Acid in Fruit juices and nectars

Titrimetry Method for **Ascorbic Acid** in Fruit juices and nectars has no validation data available and may be expunged if the laboratories using them fail to provide data. Nigeria however recommend that the committee change the PRINCIPLE for strongly **cloroured** Spectrometry to Type IV instead of being expunged because the method is being used by many laboratories in Nigeria.

Quinic, malic & Citric acid in Cranberry juice cocktail and apple juice

Nigeria supports recommendation for the retention of Type III High performance liquid chromatography (HPLC) principle.

Ash in Fruit juices and nectars:

Nigeria supports the recommendations that IFU to be maintained.

Rationale:

It gives rooms for a range

Benzoic acid in Orange juice

Nigeria supports recommendation for the retention of Type III High performance liquid chromatography (HPLC) principle.

Chloride in Vegetables Juice

Nigeria supports recommendation for the retention of T AOAC method adopted and its principle.

Essential oils in citrus fruit

Nigeria supports the adoption of Type I.

Glucose, fructose, saccharose in Fruit juices and nectars

Nigeria supports recommendation for the retention of Type II retained with Saccharose.

AGENDA ITEM 9 : HARMONIZATION OF NAMES AND FORMAT FOR PRINCIPLES AND PROVISIONS IDENTIFIED IN CXS 234

Nigeria appreciates the work done by the electronic working group lead by Brazil and Chile in preparing this document and propose the following amendments on Annex I:

Biological assay: It is an analytical method to determine the response, potency or effect of a substance by its effect in vivo or in vitro.

Recommendation: Above definition not scientific and suggested to be rephrased; for instance, 'effect' was repeated twice; Suggestion: "use any authoritative scientific definition of Biological Assay.

Calculation: When the determination is the result of a calculation based on test result(s). In this case, specify the provisions used.

Definition to be rephrased as "**Calculation** means mathematical determination of test result"

Chromatography: It is a physical separation method in which the components to be separated are distributed between two phases, one that is stationary (stationary phase) while the other (the mobile phase) moves in a certain direction.

Suggested to be rephrased. The words 'in a certain direction' can be expunged or replaced with specific direction. Better still the definition be replaced with "**Chromatography** is a method used to separate, identify, and quantify a component of a mixture by distributing the components between two phases – stationary phase and mobile phase."

Gravimetry: It is a quantitative analytical method, that is, it determines the amount of a substance by measuring its weight (due to the action of gravity).

Replace 'weight' with 'mass' and rephrase thus; **Gravimetry**: It is an analytical method that determines the amount of a substance by measuring its mass

Sensorial assay: It is a technique that uses the senses for evaluation of the organoleptic attributes (appearance, odour, texture, taste and others) of a product through the senses (to determine the provision).

Expunge: 'through the senses (to determine the provision)' to read 'It is a technique that uses the senses for evaluation of the organoleptic attributes (appearance, odour, texture, taste and others) of a product'.

Spectrophotometry: It is a technique whose equipment uses light absorption, for example: UV-Vis (Ultraviolet-Visible) spectrophotometry, infrared, atomic absorption, ICP (Inductively Coupled Plasma).

Suggested to change it to "**Spectrophotometry** is a technique to measure interaction between light and matter by measuring the absorption, transmission or reflection of light by sample.

Titrimetry: It is the determination of a given component from a solution by adding a liquid reagent of known concentration until a given result is achieved.

Suggested appropriate definition: "**Titrimetry** is a quantitative chemical technique that determines the concentration of a substance by adding a solution of known concentration to the solution of the substance to be analysed until the reaction is complete.

Visual Examination: It is a technique to detect the presence of defects, foreign or foreign matter in a food through sight, with or without the support of optical equipment (example: magnifying glass, microscope or others).

Suggested to remove the word "Foreign"