

35th Joint Arab Codex Contact Points and CCNE Coordination Meeting

PREPARATION FOR THE 44th SESSION OF THE CODEX COMMITTEE ON METHODS OF ANALYSIS AND SAMPLING

(CCMAS44)

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April 20, 2025



Agenda Item 5

REVIEW OF METHODS OF ANALYSIS IN CXS 234

5.1. FRUIT JUICES WORKABLE PACKAGE

CX/MAS 25/44/6

5.2. COCOA PRODUCTS AND CHOCOLATE WORKABLE PACKAGE

CX/MAS 25/44/7

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

The work of the review of methods in CXS 234-1999 is to remove inconsistencies, make editorial corrections, check if the methods are still fit for purpose and to look at the typing.

CCMAS reminded Members and Observers that:

- they could present new methods for provisions in standards to active commodity committees for their consideration and submission to CCMAS as part of the endorsement process; or
- if the committee is adjourned sine die, new methods could be submitted directly to CCMAS for review by the physical working group (PWG) on endorsement.

PROPOSED CHANGES TO CXS 234-1999 FOR CCMAS' ENDORSEMENT

For comments through CL 2025/16-MAS

| Commodity | Provision | Codex Standard | Method | Principle | Type | Comment |
|--------------------------|-----------------|------------------------------------|---------------------------------------|---|------|-------------------------------|
| Fruit juices and nectars | Ascorbic acid-L | CXS 247-2005 (section 4 Additives) | IFU 17a (1995) (2022); | High performance liquid chromatography (HPLC) | II | Updated version |
| Fruit juices and nectars | Ascorbic acid-L | CXS 247-2005 (section 4 Additives) | AOAC 967.21 (1967) | Indophenol method | III | unchanged |
| Fruit juices and nectars | Ascorbic acid-L | CXS 247-2005 (section 4 Additives) | ISO 6557-1:1995 | Fluorescence spectrometry (reference method) | IV I | Unchanged |
| Fruit juices and nectars | Cellobiose | CXS 247-2005 | IFU Recommendation No. 4 October 2000 | Capillary gas chromatography | IV | Unchanged |
| Fruit juices and nectars | Citric acid | CXS 247-2005 (section 4 Additives) | AOAC 986.13 (1996) | High performance liquid chromatography (HPLC) | II | Unchanged |
| Fruit juices and nectars | Citric acid | CXS 247-2005 (section 4 Additives) | IFU 22 (1985) (2005) | Enzymatic determination | III | Updated version of IFU Method |

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

- **CCMAS44 is invited to consider:**
 - Appendix I and endorse the proposed changes to CXS 234-1999; and
 - Items for further consideration in Appendix II and in paragraphs 13 – 14.

Note: Proposed amendments are indicated in **bold**, ~~strike through~~ and/or underline. Unformatted text indicates that no change was required from the current listing in CXS 234-1999.

Cocoa products and chocolate

| Commodity | Provision | Method | Principle | Type | Standard | Committee |
|----------------------------------|---|--|--|------|--------------------|--------------|
| Chocolate and chocolate products | Cocoa butter | ICA No. 26 / AOAC 977.10 and AOAC 963.15 / ICA No.14 IOCCC 14 | Calculation from moisture (Determined as Water) and Gravimetry (Soxhlet extraction) | I | CXS 87-1981 | CCCPC |
| Chocolate and chocolate products | Fat-free cocoa solids | ICA No. 26 / AOAC 977.10 and AOAC 931.05 and AOAC 930.20 | Oven-evaporation and factor Calculation from moisture (Determined as Water) and gravimetry (ether, alcohol and aqueous extraction) | I | CXS 87-1981 | CCCPC |
| Chocolate and chocolate products | Fat-free milk solids (Determined as Milk Protein) | ICA No. 26 and ICA No.17 and ICA method No.13 or / AOAC 977.10 and AOAC 955.04C and IOCCC 17 or AOAC 939.02 | Titrimetry, Kjeldahl digestion; after extraction of milk proteins Calculation from moisture content, and Titrimetry (Kjeldahl N) content of extracted and precipitated milk protein. | II | CXS 87-1981 | CCCPC |

REVIEW OF METHODS OF ANALYSIS IN CXS 234: COCOA PRODUCTS AND CHOCOLATE WORKABLE PACKAGE

CMAS44 is invited to:

- consider Appendix I and endorse the proposed changes to CXS 234-1999;
- examine the suggestion to revise CXS 87-1981, part 6.8.2 'Quantitative Determination of Non-Cocoa Butter Vegetable Fats,' shown in Appendix II in accordance with CCMAS procedures.

