

CODEX ALIMENTARIUS COMMISSION



Food and Agriculture
Organization of the
United Nations



World Health
Organization

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Agenda Item 8

CRD24

ORIGINAL LANGUAGE ONLY

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

42nd Session
Budapest, Hungary

13 – 16 June 2023 with report adoption on 20 June 2023 (virtual)

REPORT OF AN INTER-AGENCY MEETING ON METHODS OF ANALYSIS

33rd INTERAGENCY MEETING (IAM-33)

11th June 2023

Virtual Meeting

Minutes

Chair's welcome/ introduction

Richard Cantrill welcomed the participants to the first physical meeting since 2019. He noted very good attendance, which included several new faces as well as previous participants. Attendance was taken verbally, followed by circulation of a sign in sheet. The list of attendees with contact information and additional details is included as Annex A to this document.

Apologies for absence

Gina Clapper, USP

Adoption of the Agenda

Agenda adopted without changes.

Report of IAM-32 Meeting

Adoption of minutes: Minutes of the 2022 meeting were approved by unanimous consent.

Matters arising: None

Update on CXS 234 Method Review Progress

General Comments on the Methods Endorsement WG

A number of items had been referred to the Working Group on Methods for Endorsement; Greg Noonan (PWG co-Chair) was invited to outline issues where SDOs could be of assistance. The participants focused on issues highlighted by the WG co-Chair. Specific discussion points included the following:

- Matters Referred
 - CCCF – Numeric criteria for aflatoxins; participants felt discussion will take some time based on different positions related to use of sum of components approach and criteria.
 - CCFA – Request for criteria for the detection of nitrate and nitrite ions in a variety of food matrices, specifically dairy (cheese), meat, and seafood and provide information on available methods for detection that meet the established criteria. Methods are requested that can detect both ions and determine whether the ions are detected individually or in combination. A new EWG group will be proposed to review methods provided by CCFA and set up numeric criteria; to include discussion of challenges and analytical perspectives with measuring the ions separately, measuring a single ion and interconversion to the other, etc. MLs do exist for a subset of foods.

- CCFL – Seeking guidance on methods of analysis and sampling for food allergens, including in cases of unintended allergen presence from cross contact. The PWG will discuss briefly and may suggest a Discussion Paper or EWG to lay out best approaches for addressing CCFL concerns and lay out pros and cons of various methods.
- Methods Endorsement
 - Methods for total amino acids, minus tryptophan and taurine are under consideration. There may be discussion about appropriateness of these methods in relation to existing Codex provisions. All the amino acids under consideration are allowed to be added to infant formula according to CXS-72.
 - Spices – Several methods are under consideration; most are consistent with what we have previously reviewed and endorsed. There are questions about typing consistency across spice methods; waiting for input from CCSC.
 - There may be discussions on fermented noni juice and kava products coming from Regional Committees. The Chair suggested SDOs should be proactive in reviewing the work programs of Codex Regional Committees and participating in their activities.
 - Dietary fibre method update – There are many Type I methods in the table for a single provision; many of the methods are obsolete and one has been targeted for elimination, but it is unclear which methods may be used in trade. The PWG will discuss sending the question to CCNFSDU to have them debate the merits of the methods so they can send a recommendation to CCMAS.
 - Moisture in powdered dairy products – Uruguay, Argentina and Brazil have raised concerns over the existing IDF/ISO method related to accessibility of reagents, cost, etc. These countries wish to replace the existing type I method with an older method as an Annex to 234. The proposed method, however, is not as reliable according to existing validation data; details and responses to concerns raised are available in CRD 7. The PWG may be able to develop a recommendation.
- The Dairy workable package has previously been completed and is being used as a template for other workable packages.
- The Fats & Oils workable package (discussion led by Yannick Weesepeel – EWG Chair, NL). Final items in the Package have been reviewed by the EWG and the work should be completed in the present meeting. CCFO has provided comments as requested on changes in typing of methods, relevance of methods, deletion, etc. (see section A of the circular letter). Vitamin A and B provisions (in fish oils) have not yet been addressed and are in section B of the circular letter.

There are situations when a Type I and Type IV method exist simultaneously – the EWG suggests use of footnotes to advise in circumstances when the Type IV method can be used instead of Type I (trade contacts, reagents not available, etc.). Section C includes olive/olive pomace oils for consideration by the EWG. The original terms of reference for the present EWG did not include olive oil in the workable package; however, IOC requested addition of methods that have not yet been finalized in the commodity standard. This point requires discussion; the EWG may finalize the workable package without reviewing/editing the methods for olive and pomace oils (consistent with the Terms of Reference for the EWG).

Additionally, the Chair of the EWG indicated three participants used previously proposed criteria to determine Type II vs. Type III methods for a subset of the items in the workable package. In all cases the resulting type was consistent, and the criteria approach was validated for this exercise. It was noted that the approach would not be required but may be deemed useful.
- Cereals, Pulses & Legumes workable package (discussion led by Thea Rawn – EWG Chair, CA). The EWG has received several comments on nitrogen conversion factors (NCFs) and where these factors should reside – in Stan 234 or in the commodity standard. If they exist in two documents the NCFs must be consistent. The workable package also includes some methods needing replacement, but no new method has been identified. Because the commodity committee is not active and will not be reactivated, CCMAS will have to make the final decisions on these.

Aflatoxin methods: questions on the use of performance criteria and sum of components for multi-analyte methods have been referred to the EWG; sum of components can be used to develop criteria on a case-by-case basis, thus the commodity committee should address approaches. A lack

of aflatoxin methods that meet established performance criteria may pose an additional challenge. New concerns have been raised by ICC (referred to in Codex as IACST) related to the elimination of a method for ash determination, the ICC 104/1 standard. However, these comments have not yet been addressed as they were received after the EWG addressed comments received (ICC apologized for the delay in submitting comments, citing personal issues). These concerns, supplemented by feedback on ICC 109/1 will be presented to Codex immediately following the meeting.

- Processed Fruits & Vegetables workable package (discussion led by Patrick Gray – Chair of EWG, US). There was a total of 76 methods in the workable package; 40-45 of these are type I. The term “processed fruits and vegetables” is listed as a commodity, but there is no standard or provision for this generic grouping of products. The EWG continued using this terminology for the commodity and then listed the specific applicable products in parenthesis as they conducted their review. This is provided for information only. Comments received were primarily editorial; some harmonized language will be required once workable packages are completed.
IDF/ISO method for aqueous coconut products: some of the methods for fat extraction have been merged so the method numbers are changing; IDF/ISO will provide updated method references (completed).

CCMAS Papers

- Criteria for selecting type II methods from multiple type III methods – The document was circulated for comments earlier this year; the Swiss delegation is not present at this meeting, but IAM member Erik Konings was available to discuss the document. The proposed criteria have been successfully incorporated into the review of some of the workable packages; however, the Committee may decide when to use the criteria approach.

IAM Member Updates

- Method Validation / Statistical Update – AOAC has taken a method through to a final action using proficiency testing data and without MLTs; the statistical requirements have been created and rules for pursuing this validation will be shared by AOAC. Based on Member interest, the Chair suggested one of the SDOs organize a workshop to discuss this issue with PT providers and interested organizations. This item would be removed from future IAM agendas.
- Revision of ISO 5725: Part 2 “Basic method for the determination of repeatability and reproducibility of a standard measurement method”: published in 2019. Part 1 “General principles and definitions” and Part 3 “Intermediate measures of the precision of a standard measurement method”: revision at final stage, publication to follow. Two other parts are at an early stage of revision: Part 5 “Alternative methods”, Part 6 “Use in practice of accuracy values.”
- AACC/ICC Update on Dietary Fibre - Since 2009 CODEX definition of dietary fibre created, 2 methods have been accepted as type I methods AOAC 2009.01/AACC 32-45.01 and AOAC 2011.25/AACC 32-50.01. A new method developed (AOAC 2017.16/ICC standard 185) and accepted by CCFNSDU; the method is now a Type I method. The second method was also developed for soluble/insoluble split and went through MLT to be accepted as ICC standard 191/AOAC 2022.01. The method is now first action AOAC method. Given the fact that CCFNSDU made the recommendation in 2019 to have AOAC 2017.16/ICC 185 as a Type I method and given that method ICC 191/AOAC 2022.01 differs from AOAC 2017.16/ICC 185 /AACC 32-60.01 only for the inclusion of a well-established filtration step, ICC has asked the replacement of AOAC 2011.25/AACC 32-50.01 with ICC 191/AOAC 2022.01 as the Type I method. Comments from Cereals and Grains highlight ongoing changes happening in use of the methods overall; the matter will be taken back to CCFNSDU to have them debate the merits of the methods so they can send a recommendation to the PWG. Resolution in the current anomaly related to the use of two very different methods (both Type I) for total and soluble/insoluble dietary fibre is needed.

Exchange of Reports and Information/Concerns of Members

- AOAC – Three methods for infant formula analysis (total amino acids, tryptophan, and vitamin B₁₂) have been harmonized, individually approved through AOAC/ISO/IDF, and submitted to Codex. Methods are in development for the following: human milk oligosaccharides (HMOs), galacto-oligosaccharides (GOS), lactoferrin, A2 beta-casein and fluoride in infant formula. AOAC has an ion-selective electrode-based candidate method for fluoride, and labs are needed to support the multi-lab trial (MLT).

The following updates on methods for contaminants in infant formula were provided: AOAC is expecting MLTs this or next year for acrylamide using a new method addressing issues with interferences; chlorate/perchlorate; furan/alkyl furans; and 2- and 3-MCPD/2- and 3-MCPD esters/glycidyl esters.

Calls for methods for the following are expected this year: Pyrrolizidine alkaloids; PFAS; trace elemental impurities; glyphosate, metabolites and trimesium. New standard development is additionally expected for ethylene oxide residues.

- ISO TC 34 has formed a new Subcommittee on Food Loss & Waste (SC20)
- NMKL has changed its official name to Nordic-Baltic Committee on Food Analysis; the acronym remains unchanged.
- USP – USP has recently published its *Guide to Food Ingredient Standards and Solutions for the Infant Formula Industry* (available online at <https://www.usp.org/food-safety-integrity/infant-formula-guide>). USP is seeking volunteers with technical expertise related to infant formula (including formulation & manufacture of infant formula products, ingredient analysis, final product analysis, contaminants, processing controls, toxicology, and regulatory frameworks) to inform strategy development. USP wishes to provide the North American infant formula industry, regulators, and associated industries with solutions to address concerns and challenges related to ingredient quality, product quality, matrix-specific analytical method development and validation for common ingredients, and related topics. These solutions will likely focus on educational materials, guidelines, and platforms for sharing information between stakeholders (including regulatory bodies) in a timely manner. Interested parties should contact Kristie Laurvick for additional information.
- IDF will be publishing guidance on sampling dairy products in the processing environment (to complement existing standards) within the next several weeks – the scope of the document includes infant formula products.

Events & Other Work

- AOAC will hold its Annual Meeting in August 2023 (New Orleans, LA) and a workshop on bioassays in November 2023 (Amsterdam) to discuss best practices for developing and validating bioassays in food and other complex mixtures.
- AACC/Cereals & Grains – The Cereals & Grains Association's Annual Meeting will be held from 18-20 October 2023 (Schaumburg, IL)
- AOCS – Annual Meeting will be held in April 2023 (Montreal) and will include a session on Sustainable Proteins
- ICC – The 6th International Symposium on Gluten-Free Cereal Products and Beverages 2023 (supported by the Journal of Cereal Science) will be held from 18-20 October 2023 (Rome); an ICC Asia-Pacific Cereals Conference will be held from 8-10 November 2023 (Henan, China); The 17th International Cereal and Bread Congress will be held from 22-25 April 2024 (Nantes, France)
- IDF – The World Dairy Summit will be held from 16-19 October 2023 (Chicago, IL); IDF-ISO Analytical Week 2024 will be held in Zimbabwe.
- ISO – A TC 34 meeting is expected in mid-January 2024 (Japan); the ISO General Assembly will meet in September (Brisbane) with a focus on challenges facing our planet today. An event with Codex is foreseen.
- NMKL – The Annual Meeting will be held in September (Stockholm); a Workshop on Vibrio Analysis by MALDI-TOF will be held in August (Bergen)

- World Food Safety Day was 7 June 2023 with a theme of “Food Standards Save Lives”; resources created for the event are available on the WHO website. ISO released a video on food safety (target audience – consumers) in celebration of WFSD.
- World Metrology Day was held on 20 May 2023 as a joint initiative between BIPM and OIML with a focus on measurements supporting the global food system. Videos and presentations prepared for the event are available at worldmetrologyday.org.

Other Business

- Vice-Chair Discussion/Terms of Reference – Darryl Sullivan (AOAC) introduced a discussion of formalizing the structure and operations of IAM through appointment of a Vice Chair and creation of Terms of Reference. Dr. Sullivan offered AOAC to serve as Vice Chair to support the current Chair and Secretariat if needed. The Chair asked members if anyone present agreed to formalizing IAM procedures and practices; previously members have spoken in support of the informal nature of IAM without mandating rules for leadership changes or terms of reference. The Chair indicated Dr. Sullivan (AOAC) will be included on relevant emails. The current chair and secretariat (USP) will be retained for the intersessional period. While there was no objection raised to the idea of a Vice Chair, the consensus of the group was to keep the leadership structure informal in its current form.
- Website Update – Members have previously discussed the difficulty finding IAM materials online through the outdated MoniQA website. Kristie Laurvick (USP) indicated she will be working with the Global External Affairs (Regulatory Engagement) team at USP to create a microsite to host IAM documents and updates and to facilitate information sharing and collaboration among members. Ms. Laurvick will provide IAM with an update when one is available.

Provisional Date and Place of Next Meeting

The next IAM meeting will be an in-person meeting in Budapest, Hungary, May 2024 (to be confirmed) in advance of CCMAS 43.

Closing Remarks

The Chair thanked the Hungarian delegation as Host Nation for aiding in planning of this year’s physical meeting. He further thanked USP for sponsoring the refreshment break during the meeting. Finally, the Chair thanked all participants and closed the meeting at 17:40.

**IAM-33
ANNEX A**

ATTENDEE LIST

IAM Member or Attendee Name, Position and Email	Organization	Main Website	Comments; Events
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