

CODEX ALIMENTARIUS COMMISSION



Food and Agriculture
Organization of the
United Nations

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Agenda item 4.1



World Health
Organization

CX/MAS 24/43/4 Add.1

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ORIGINAL LANGUAGE ONLY

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

Forty-third Session

Budapest, Hungary

13 – 18 May 2024

REVIEW OF METHODS OF ANALYSIS IN CXS 234 CEREALS, PULSES AND LEGUMES WORKABLE PACKAGE

Comments in reply to CL 2024/14-MAS

submitted by

*Burundi, Colombia, Ecuador, Egypt, Guatemala, Indonesia, Jamaica, Panama, Papua New Guinea,
Paraguay, Peru, Philippines, Sierra Leone, ICUMSA and USP*

Background

1. This document compiles comments received through the Codex Online Commenting System (OCS) in response to CL 2024/14-MAS issued in February 2024. Under the OCS, comments are compiled in the following order: general comments are listed first, followed by comments on specific sections.

Explanatory notes on the appendix

2. The comments submitted through the OCS are hereby annexed and presented in tabulated format.

ANNEX**GENERAL COMMENTS**

COMMENT	MEMBER / OBSERVER
Burundi supports to consider the proposed recommendations, and to endorse the proposed changes to CXS 234-1999.	Burundi
<p>Referente al punto vi, se agradece al grupo de trabajo y a los organismos de normalización, en la revisión de los métodos y la sustitución por métodos adecuados y una vez revisado se ratifique los cambios propuestos a CXS 234.</p> <p>Se considera que, los cambios, eliminación, y sustituciones por otros Métodos de Referencia aplicables, son válidos para cada producto enlistado y por tratarse de Métodos Oficiales reconocidos bibliográficamente a nivel mundial, cumplen con los requerimientos, que los laboratorios de análisis debemos aplicar en las diversas determinaciones, considerando los procesos de pre tratamiento, tratamiento y análisis final de muestras.</p> <p>Se recomienda que sería necesario considerar que, los métodos señalados deben corresponder a las versiones vigentes, es decir para los Métodos AOAC 22nd Edition 2023.</p>	Ecuador
Egypt appreciates the work which done in the revision of methods and agrees on it	Egypt
<ul style="list-style-type: none"> Los métodos descritos en la tabla métodos revisados durante la EWG para la provisión de ceniza concierne analizar si el método a 550 °C es lo suficientemente aplicable para todas las matrices a analizar. Establecer los parámetros de aceptabilidad de análisis para poder utilizar metodologías alternas en caso de no contar con la infraestructura para los análisis planteados. 	Guatemala
Agree	Iraq
Panama agrees with the advancement to its next step in the Codex Committee in reference.	Panama
<p>The Philippine supports the provision for Ash-550 which is based on AOAC 923.03 and considered standard procedure for this commodity and regularly used in Proficiency Testing.</p> <p>Also, we support the methods with different provisions in temperature due to environmental conditions across different regions where these methods are being applied. Additionally, validation should be conducted to verify the suitability and reliability of the methods under various temperature conditions.</p> <p>The Philippine supports the provision for Ash-550 which is based on AOAC 923.03 and considered standard procedure for this commodity and regularly used in Proficiency Testing. Also, we support the methods with different provisions in temperature due to environmental conditions across different regions where these methods are being applied. Additionally, validation should be conducted to verify the suitability and reliability of the methods under various temperature conditions.</p>	Philippines
Sierra Leone agrees with the suggestions	Sierra Leone
The ashing temperature of 550°C is fairly standard for many foodstuffs and other materials (it is common in ASTM methods too). It would be useful to harmonise on 550°C unless there is a cogent argument for the higher temperature.	ICUMSA

SPECIFIC COMMENTS

Degermed maize (corn) meal and maize (corn) grits		
Indonesia proposes to add "on dry basis" in this provision		Indonesia
Ash-900		Jamaica
Jamaica supports the change for the ash analyses being distinguished by the incineration temperatures at 550 and 900°C.		
ISO 2171 Tachar. Se sugiere verificar pertinencia. El mismo corresponde a mufla a 900°C Only one Type I method is allowed for each provision, to allow for the two temperatures used in the ash determination globally, a change to the provision is suggested Nos encontramos atentos al debate que se pueda generar sobre esta posibilidad.		Paraguay
En la práctica el análisis para ceniza en los laboratorios se realiza a una temperatura máxima de 550°C De acuerdo con la referencia del método AOAC 923.03/ ISO 2171; y el principio Calculation from moisture and Gravimetry (incineration at 550°C)		Peru
Calculation from moisture and Gravimetry (incineration at 550°C) I believe moisture methods also work upon the principle of gravimetry (unless this is a true water content test). Suggest the 'Principle' for all such tests be stated simply as 'Gravimetry' or 'Gravimetric', whichever is consistent with the rest of the document.		USP
Only one Type I method is allowed for each provision, to allow for the two temperatures used in the ash determination globally, a change to the provision is suggested		Paraguay
Gari		
To align with CXS 151: 1250 µm aperture sieve is required Indonesia proposes to add number of mesh for more clarity		Indonesia
Edible Cassava flour		
To align with CXS 151: 600, 1200 µm aperture sieves are required Indonesia proposes to add number of mesh for more clarity		Indonesia
Pearl millet flour		
CXS 170-1989 (2019) Indonesia propose to add "ISO 16624:2020" as one of the methods, because ISO 16624 specify the methods for the determination of colour in durum wheat semolina and wheat flour		Indonesia
Colorimetry using (specific colour grader)		

In line with our comments to the methods, Indonesia proposes to add "diffuse reflectance" in principle	
Colorimetry using (specific colour grader) Chromatography (HPLC and this layer)	United Arab Emirates
De acuerdo con la propuesta del GTE	Peru
Quinoa	
Moisture There are minor differences between AACCI 44-15.02 and ISO 712. Jamaica has no issue with the replacement of the method AACCI 44-15.02 with ISO 712	Jamaica
Gravimetry (oven drying) Suggest to add Halogen moisture analyzer method	United Arab Emirates
Se sugiere se mantenga la AACCI 44-15.02 y se incluya también el método AOAC 945.15 Es importante mencionar que la temperatura de 130°C (ISO 712) podría ser muy elevada para la matriz quinua.	Peru
Quinoa	
De acuerdo con la propuesta del GTE	Peru
Support Both methods are listed in CXS 234 but ISO 712 is the reference method regularly used in the laboratory and in Proficiency Testing. The Philippine supports the deletion of Nitrogen conversion factor since these factors will be placed in an annex to CXS 234 The Philippine supports the replacement of AOAC 955.04D due to the use of hazardous chemicals, such as mercury catalysts, in this method. We also support the new methods that can achieve similar results without the need for mercury catalysts or other hazardous chemicals.	Philippines
Sorghum flour	
ISO 2171 Tachar. Se sugiere verificar pertinencia. El mismo corresponde a mufla a 900°C	Paraguay
<u>Calculation from moisture and Gravimetry (incineration at 550°C)</u>	USP

I believe moisture methods also work upon the principle of gravimetry (unless this is a true water content test). Suggest the 'Principle' for all such tests be stated simply as 'Gravimetry' or 'Gravimetric', whichever is consistent with the rest of the document.	
Only one Type I method is allowed for each provision, to allow for the two temperatures used in the ash determination globally, a change to the provision is suggested En la práctica el análisis para ceniza en los laboratorios se realiza a una temperatura máxima de 550°C Para Ash-550: De acuerdo con la referencia del método AOAC 923.03/ ISO 2171; y su principio Calculation from moisture and Gravimetry (incineration at 550°C) Para Ash -900: Se sugiere retirar los métodos ISO 712/ICC 110/1 El método ISO 712 indica temperatura de incineración de 900°C. El método ICC 110/1 es para la determinación de humedad	Peru
Sorghum grains	
CXS 173-1989 (2019) Indonesia propose to add "ISO 16624:2020" as one of the methods, because ISO 16624 specify the methods for the determination of colour in durum wheat semolina and wheat flour	Indonesia
Colorimetry-using (specific colour grader) In line with our comments to the methods, Indonesia proposes to add "diffuse reflectance" in principle	Indonesia
Colorimetry-using (specific colour grader) Chromatography (HPLC and this layer)	United Arab Emirates
De acuerdo con la propuesta del GTE	Peru
Ash Ash-550 Indonesia proposes to add "on dry basis" in this provision	Indonesia
AOAC 923.03 / ISO 2171 Tachar. Se sugiere verificar pertinencia. El mismo corresponde a mufla a 900°C	Paraguay
Calculation from moisture and Gravimetry (incineration at 550°C) I believe moisture methods also work upon the principle of gravimetry (unless this is a true water content test). Suggest the 'Principle' for all such tests be stated simply as 'Gravimetry' or 'Gravimetric', whichever is consistent with the rest of the document.	USP
Only one Type I method is allowed for each provision, to allow for the two temperatures used in the ash determination globally, a change to the provision is suggested	Peru

En la práctica el análisis para ceniza en los laboratorios se realiza a una temperatura máxima de 550°C De acuerdo con la referencia del método AOAC 923.03/ ISO 2171; y principio Calculation from moisture and Gravimetry (incineration at 550°C) Se sugiere retirar la ISO 6540, pues el método es para determinar humedad en maíz.	
Soy protein products	
ISO 11085 has been proposed by EWG member Indonesia proposes to add "ISO 16634-2" for cereal, pulses & milled cereal products, and "ISO 16634-1" for animal and feeding stuff	Indonesia
ISO 11085 has been proposed by EWG member De acuerdo con la referencia ISO 734:2023	Peru
ISO 11085 has been proposed by EWG member The Philippine supports the replacement of CAC/RM 55 since this method is not anymore available. We also support the replacement of a Type I method listed in CXS 234 once the performance data of these methods has been evaluated to ensure that the replacement method meets the required validation criteria.	Philippines
De acuerdo con los 3 métodos AOCS Ba 4f-00 / AACCI 46.30 / ISO 16634-1:2008	Peru
Vegetable protein products	
Indonesia proposes to add "ISO 16634-2" for cereal, pulses & milled cereal products, and "ISO 16634-1" for animal and feeding stuff	Indonesia
De acuerdo con el método ISO 734:2023	Peru
Vegetable protein products	
De acuerdo con los 3 métodos AOCS Ba 4f-00 / AACCI 46.30 / ISO 16634-1:2008	Peru
Wheat Flour	
Ash Ash-550 Indonesia proposes to add "on dry basis" in this provision	Indonesia
ISO 2171 Tachar. Se sugiere verificar pertinencia. El mismo corresponde a mufla a 900°C	Paraguay
En la práctica el análisis para ceniza en los laboratorios se realiza a una temperatura máxima de 550°C Para Ash-550: De acuerdo con la referencia del método AOAC 923.03/ ISO 2171; y su principio Calculation from moisture and Gravimetry (incineration at 550°C) Para Ash -900: Se sugiere retirar AOAC 923.03, ISO 2171 / ICC 104/1	Peru

Whole maize (corn) meal		
Ash	Ash-550 Indonesia proposes to add "on dry basis" in this provision	Indonesia
ISO 2171 Tachar. Se sugiere verificar pertinencia. El mismo corresponde a mufla a 900°C		Paraguay
Calculation from moisture and Gravimetry (incineration at 550°C) I believe moisture methods also work upon the principle of gravimetry (unless this is a true water content test). Suggest the 'Principle' for all such tests be stated simply as 'Gravimetry' or 'Gravimetric', whichever is consistent with the rest of the document.		USP
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