

# JOINT FAO/WHO FOOD STANDARDS PROGRAMME

## CODEX COMMITTEE ON NUTRITION AND FOODS FOR SPECIAL DIETARY USES

**Forty-fourth Session**

**Dresden, Germany**

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### **Methods of Analysis in the Standards for Follow-up Formula for Older Infants and Product for Young Children (CXS 156-1987)**

#### **EXECUTIVE SUMMARY**

This document outlines a joint proposal by IDF, ISDI & ISO to add a method of analysis for the determination of nitrogen content for determination of crude protein in Follow-up formula for Older Infants and Product for Young Children to be listed in the Standard on Recommended Methods of Analysis and Sampling CXS 234-1999.

It is proposed that this method be considered during the 44<sup>th</sup> Session of the Codex Committee on Nutrition and Foods for Special Dietary Uses (CCNFSDU) in October 2024 and a primary action taken: (1) add Type I method ISO 8968-1|IDF 20-1:2014 (Titrimetry; Kjeldahl) for crude protein in follow-up formula.

#### **BACKGROUND**

The following discrepancy can be noted for infant and follow-up formulas:

- The Standard for Infant Formula and Formulas for Special Medical Purposes Intended for Infants CXS 72-1981 contains a provision for protein with reference to a nitrogen-to-protein conversion factor and the Standard on Recommended Methods of Analysis and Sampling CXS 234-1999 stipulates a Type I method (ISO 8968-1|IDF 20-1:2014) for crude protein.
- On the other hand, the Standard for Follow-up formula for Older Infants and Product for Young Children CXS 156-1987 contains a provision for protein with reference to a nitrogen-to-protein conversion factor but the Standard on Recommended Methods of Analysis and Sampling CXS 234-1999 does not refer to any method for follow-up formula.

## PROPOSAL AND RATIONALE

IDF, ISDI & ISO propose to endorse ISO 8968-1 | IDF 20-1 (Milk and milk products – Determination of nitrogen content - Part1: Kjeldahl principle and crude protein calculation) for determination of crude protein in follow-up formula listed in CXS 234-1999.

As mentioned above, there is currently no method for crude protein for follow-up formula in CXS 234-1999.

Although ISO 8968-1 | IDF 20-1 was not specifically validated for follow-up formula, the method was validated for similar matrices, including liquid cow's, goat's and sheep's whole milk and dried milk and milk products (including infant formula). And, considering the similarities between infant and follow-up formulas, specifically regarding definition and composition, ISO 8968-1 | IDF 20-1 is also considered fit for purpose for verifying compliance of crude protein in follow-up formula. Endorsement of ISO 8968-1 | IDF 20-1 as a Type I method for crude protein in follow-up formula would align follow-up formula with infant formula, which already references ISO 8968-1 | IDF 20-1 as a Type I method for crude protein in CXS 234-1999.

## RECOMMENDATION

That the Committee refers to CCMAS the method listed in Table 1 for review and endorsement as Type I for determination of crude protein in follow-up formula.

Commodity	Provision	Method	Principle	Type
Follow-up formula	Crude protein	ISO 8968-1   IDF 20-1	Titrimetry (Kjeldahl)	I

The note relevant to the nitrogen conversion factor included in CXS 156 may be inserted where appropriate to reflect the CAC/CCNFSDU decisions to come about the placement of these factors in the Codex texts.