CODEX ALIMENTARIUS COMMISSION

Food and Agriculture Organization of the United Nations

World Health Organization

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Agenda Item 3 **CX/MAS 14/35/3 Add.1x (Rev)**
(Original language only)

JOINT FAO/WHO FOOD STANDARDS PROGRAMME

CODEX COMMITTEE ON METHODS OF ANALYSIS AND SAMPLING

Thirty-fifth Session
Budapest, Hungary, 3 - 7 March 2014

ENDORSEMENT OF METHODS OF ANALYSIS PROVISIONS IN CODEX STANDARDS

Comments from the IDF and ISO/TC34/SC5

Latest Update to the current list of recommended IDF/ISO methods in the section Milk and Milk products and Foods for Special Dietary Uses of Codex Stan 234

(Proposed changes are shown in ~~bold strikethrough~~ for deletion and bold underlined for additions)

IDF and ISO/TC34/SC5 would like to inform the CCMAS that the ISO 8968-1|IDF 20-1:2001 and ISO 8968-2|IDF 20-2:2001 have been revised and merged into **ISO 8968-1|IDF 20-1:2014**, also replacing the IDF 92:1979 / ISO 5549:1978. It is important for CCMAS to appreciate that IDF/ISO have technically revised the methodology and performed multiple international collaborative studies to validate the standard for the following products: bovine milk with reduced fat contents, goat whole milk, sheep whole milk, cheese, dried milk and dried milk products including milk-based infant formulae, milk protein concentrate, whey protein concentrate, casein and caseinate. In consequence, the revised IDF/ISO standard may not be technically equivalent to AOAC 991.20 anymore.

IDF also informs CCMAS of the withdrawal of the outdated standard IDF 165:1993 – Butteroil - Determination of contents of antioxidants - Method by liquid chromatography.

IDF and ISO also propose editorial revisions of the provisions regarding protein for consistency with the provisions included in the relevant Codex standards.

Those changes are reflected in the table below.

IDF and ISO/TC34/SC5 also note that the current version of the Codex STAN 234 – 2011 does not include all changes to the references to IDF/ISO methods adopted since 2008.

COMMITTEE ON MILK AND MILK PRODUCTS

METHODS OF ANALYSIS

Products	Provisions	Method	Principle	Type
Blend of evaporated skimmed milk and vegetable fat	Milk protein in MSNF[1]	ISO 8968-1~~/2~~|IDF 20-1~~/2~~:~~2001~~**2014** / AOAC 991.20	Titrimetry (Kjeldahl)	IV
Reduced fat blend of Evaporated skimmed milk and vegetable fat	Milk protein in MSNF[1]	ISO 8968-1~~/2~~|IDF 20-1~~/2~~:~~2001~~**2014** / AOAC 991.20	Titrimetry (Kjeldahl)	IV
Blend of skimmed milk and vegetable fat in powdered form	Milk protein in MSNF[1]	ISO 8968-1~~/2~~|IDF 20-1~~/2~~:~~2001~~**2014** / AOAC 991.20	Titrimetry (Kjeldahl)	IV
Reduced fat blend of skimmed milk powder and vegetable fat in powdered form	Milk protein in MSNF[1]	ISO 8968-1~~/2~~|IDF 20-1~~/2~~:~~2001~~**2014** / AOAC 991.20	Titrimetry (Kjeldahl)	IV
Blend of sweetened condensed skimmed milk and vegetable fat	Milk protein in MSNF[1]	ISO 8968-1~~/2~~|IDF 20-1~~/2~~:~~2001~~**2014** / AOAC 991.20	Titrimetry (Kjeldahl)	IV
Reduced fat blend of sweetened condensed skimmed milk and vegetable fat	Milk protein in MSNF[1]	ISO 8968-1~~/2~~|IDF 20-1~~/2~~:~~2001~~**2014** / AOAC 991.20	Titrimetry (Kjeldahl)	IV
Cheese, unripened including fresh cheese	**Milk** Protein	ISO 8968-1~~/2~~|IDF 20-1~~/2~~:~~2001~~**2014** / AOAC 991.20 and 991.23	Titrimetry (Kjeldahl)	I
Cream and prepared creams	Milk protein	ISO 8968-1~~/2~~|IDF 20-1~~/2~~:~~2001~~**2014** / AOAC 991.20	Titrimetry (Kjeldahl)	I
Edible casein products	**Milk** protein (total N x 6.38 in dry matter)	**ISO 8968-1|IDF 20-1:2014** ~~**IDF 92:1979 / ISO 5549:1978**~~	Titrimetry**, (**Kjeldahl**)** ~~**digestion**~~	~~**IV**~~ **I**
Evaporated milks	**Milk** protein **in MSNF[1]**	ISO 8968-1~~/2~~|IDF 20-1~~/2~~:~~2001~~**2014** / AOAC 991.20 /AOAC 945.48H	Titrimetry (Kjeldahl)	I
Fermented milks	**Milk** Protein	ISO 8968-1~~/2~~|IDF 20-1~~/2~~:~~2001~~**2014** / AOAC 991.20	Titrimetry (Kjeldahl)	I
Milk powders and cream powders	Milk protein	ISO 8968-1~~/2~~|IDF 20-1~~/2~~:~~2001~~**2014** / AOAC 991.20	Titrimetry (Kjeldahl ~~digestion~~)	I
~~**Milk fat products**~~	~~**Antioxidants (phenolic)**~~	~~**IDF 165:1993**~~	~~**Reversed phase gradient liquid chromatography**~~	~~**II**~~
~~**Milk products obtained from fermented milks heat-treated after fermentation**~~	~~**Milk Protein**~~	~~**ISO 8968-1/2|IDF 20-1/2:20012014 / AOAC 991.20**~~	~~**Titrimetry (Kjeldahl)**~~	~~**I**~~
IDF/ISO: The line above could be removed since it is covered by the provision Fermented milk				
Sweetened Condensed Milks	**Milk** protein **in MSNF[1]**	ISO 8968-1~~/2~~|IDF 20-1~~/2~~:~~2001~~**2014** / AOAC 991.20 AOAC 945.48H	Titrimetry (Kjeldahl)	I
Whey powders	Milk protein (total N x 6.38)	ISO 8968-1~~/2~~|IDF 20-1~~/2~~:~~2001~~**2014** / AOAC 991.20	Titrimetry (Kjeldahl)	I
~~**Whey powders**~~	~~**Protein (total N x 6.38)**~~	~~**IDF 92:1979 / ISO 5549:1978**~~	~~**Titrimetry, Kjeldahl digestion**~~	~~**IV**~~

[1] Milk total solids and MSNF content include water of crystallization of lactose

Foods for Special Dietary Uses

Products	Provisions	Method	Principle	Type
Infant formula	Crude protein*	ISO 8968-1/~~2~~|IDF 20-1/~~2~~:~~2001~~**2014** / AOAC 991.20	Titrimetry (Kjeldahl)	I

* Determination of Crude Protein
The calculation of the protein content of infant formulas prepared ready for consumption may be based on N x 6.25, unless a scientific justification is provided for the use of a different conversion factor for a particular product. The value of 6.38 is generally established as a specific factor appropriate for conversion of nitrogen to protein in other milk products, and the value of 5.71 as a specific factor for conversion of nitrogen to protein in other soy products