CODEX ALIMENTARIUS COMMISSION

Food and Agriculture Organization of the United Nations

World Health Organization

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Agenda Item 7 **MAS/36 CRD/21**

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

36th Session
***Budapest, Hungary,* 23 – 27 February 2015**

REVIEW AND UPDATE OF METHODS IN CODEX STAN 234-1999

(Comments of SDOs)

The SDOs would like to thank Brazil for their extensive work on this project.

Representatives of the standardisation organisations; AACC INTERNATIONAL, AOAC INTERNATIONAL, AOCS, CEN, IDF, ISO and NMKL have reviewed and commented on CX/MAS 15/36/7 Annex 1 and Annex 2. The comments are given in the last column of the tables.

However, the SDOs think it is even more important to focus on the process of method endorsement, and the review and updating of Codex standards. The SDOs would recommend that:

- The commodity standards should not refer to specific methods, but give the reference to the Codex Stan 234. This will make it easier to review the methods, keep them up-to-date, and avoid inaccuracy between the commodity standards and the Codex Stan 234.
- The commodity committees should continue to forward specific methods for endorsement to CCMAS, but the methods should only be referred to in the Codex Stan 234.
- The commodity committees have to advise CCMAS of the limit values for the provisions, along with their method suggestions.
- For many provisions, method criteria will apply, and it will be easier to add newly appropriated suggested methods, fulfilling the criteria, to the Codex Stan 234. This could be done at the CCMAS.
- In Codex Stan 234, there are several methods that are not fit for purpose, newer methods should preferably replace old ones. (For example, methods for tin in some commodities and aflatoxins in general have not been updated.)

Brazil has provided the necessary first step in highlighting the importance of maintaining the accuracy and currency of the Codex standards. However, the SDOs feel that looking at past ALINORMs from active committees can be confusing, as subsequent decisions may not be reflected in these documents. This could result in incorrect information as to the current status of the commodity standards with respect to Codex STAN 234. Also CCMAS should focus on identifying the topics for further discussions, and not spend time on editorial inconsistencies which could lead to reopening discussions on agreed decisions.

Readability and ease-of-use of the paper from Brazil can be enhanced if the Codex Stan of interest are included for the different provisions.

It seems appropriate to first adopt a structured revision process for 234, including the role of commodity committees, IAM, and Codex secretariat. This process should result in work packages which can be handled during CCMAS endorsement sessions.

ANNEX I - METHODS WITH INACCURATE INFORMATION ENDORSED FOR OVER 10 YEARS

Commodities	Source	Provision	Method	Principle	Type	Year Approval	Year Last revision	Year Endorsement by CCMAS	Committee	Remarks	**SDO replies**
All foods	ALINORM 01/23	Lead, cadmium, copper, iron and zinc	NMKL 161 AOAC ~~**991.10**~~ **999.10**	AAS after microwave digestion	III			2001	CCCF	The method AOAC 991.10 is not for food (Cholinesterase Activity in Whole Blood) It is a typing error, it should be AOAC 999.10.	**yes it is a typing error: it should be AOAC 999.10**
Bouillons and Consommés	ALINORM 95/23	Tin	AOAC 985.16	Atomic absorption	II			1995	CCSB	a) CODEX STAN 234 doesn't mention this provision . The CODEX STAN 228 doesn´t contain methods for tin neither the CODEX STAN 117	**The AOAC suggested method is probably not sensitive enough as it is flame AAS. So we would rather suggest a criteria approach to find most**

										commodity b) The principle is not mentioned in the ALINORM c) The CODEX STAN 159 doesn´t contain methods, but has this provision. d)The CAC/RM were revoked	
Canned mangoes	ALINORM 87/23	Water capacity of containers	CAC/RM 46	_	I			1987	CCPFV	a) The CODEX STAN 234 doesn't mention this provision for this commodity b) The principle is not mentioned in the ALINORM c) The CODEX STAN 159 doesn´t contain methods, but has this provision. d)The CAC/RM were revoked	**delete the entry in this document**
Canned mushrooms	Stan 234	Wash drained weight	CAC/RM44	Sieving	I				CCPFV	The report that mention this provision/method	**Canned mushrooms standard (Codex**

										was not found. The Codex standard for this commodity was not found.	**STAN 55) was deleted, so delete this line in 234**
Cereals, shell fruit and derived Products (including peanuts)	ALINORM 03/23	Sum of aflatoxins B1, B2, G1 and G2	~~EN 12955 : 1999-07~~ ISO 16050	HPLC with post column derivatization and immunoaffinity column clean up	III			2003	CCCF	BS EN 12955:1999 - Superseded, Withdrawn Replaced By : BS EN ISO 16050:2011	**EN 12955:1999 was replaced by EN ISO 16050:2011. This change is already incorporated in Codex STAN 234 so there is no problem.**
Cocoa Butter (for all foods)	ALINORM 01/23	Lead	AOAC 999.11 NMKL 139	AAS	II			2001	CCCPC	a) There are methods mentioned in the CODEX STAN 86- According to AOAC 934.07 or IUPAC Method (Pure & Appl. Chem., 63). b) The IUPAC methods are obsolete c) There are methods for lead in Codex Stan 228 934.07	**We would rather suggest a criteria approach as there are other relevant methods.**

										(spectrophotometric method) would not have sufficient limit of determination. NMKL 139 and AOAC 999.11 (AOAC has adopted the NMKL method) have better limit of detection /determination for lead and other metals.	
Cooked cured chopped meat	ALINORM 95/23	Lead	AOAC 972.25	Atomic absorption	II			1995	CCMPPP	a)There are methods mentioned in the CODEX STAN 98 AOAC 934.07. see above	**AOAC 934.07 was withdrawn. Codex STAN 234 is already updated so there is no problem. Delete this line in this table. See above regarding Criteria approach.**
Cooked cured ham	ALINORM 95/23	Lead	AOAC 972.25	Atomic absorption	II			1995	CCMPPP	a) The CODEX STAN 96 mentions a different method: AOAC 934.07.	**AOAC 934.07 was withdrawn. Codex 234 is updated so there is no**

											problem. **Delete this line**
Cooked cured ham	ALINORM 95/23	Nitrite	AOAC 973.31	Colorimetry	II			1995	CCMPPP	a)The CODEX STAN 96 doesn't mention this method, only ISO 2918	**Update CODEX STAN 96 is not updated?**
Cooked cured ham	ALINORM 95/23	Protein	ISO 937	Kjeldahl digestion	II			1995	CCMPPP	a)There are methods mentioned in the CODEX STAN 96 b) The CODEX STAN 96 doesn't mention this method, only ISO Recommendation R 1443 c) The CODEX STAN 234 mentions the provision Protein (conversion factor 6.25)	**in ALINORM95/23, it is written that there is an error therefore ISO 1443 was replaced by ISO 937** **Codex STAN 234 is OK so there is no problem**
Cooked cured pork shoulder	ALINORM 95/23	Lead	AOAC 972.25	Atomic absorption	II			1996	CCMPPP	a)The CODEX STAN 97 mentions a different method: AOAC 934.07	**we would rather suggest a criteria approach to find most relevant methods.**

Cooked cured pork shoulder	ALINORM 95/23	Nitrite	AOAC 973.31	Colorimetry	II			1995	CCMPPP	a)The CODEX STAN 97 doesn't mention this method, only ISO 2918	**we would rather suggest a criteria approach to find most relevant methods. Codex STAN 97 should be udpated**
Cooked cured pork shoulder	ALINORM 95/23	Protein	ISO 937	Kjeldahl digestion	II			1995	CCMPPP	a) The CODEX STAN 97 doesn't mention this method, only ISO Recommendation R 1443	**see above: in ALINORM95/23, it is written that there is an error therefore ISO 1443 was replaced by ISO 937 Codex STAN 234 is OK so there is no problem**
Degermed maize (corn) meal and maize (corn) grits	CODEX STAN 234	Crude fat	AOAC 945.38F; 920.39C /**AACCI 30-20.01**	Gravimetry (ether extraction)	I			1985	CCCPL	a) The Annex of CODEX STAN 155 mentions the method AOAC 945.38F; 920.39C and ISO 5986 (Withdrawn)	***AACC 30-20.01 (1999) is equivalent to AOAC*** ***Suggestions of other standards: ISO 11085:2008***

											ISO 6492:1999
Degermed maize (corn) meal and maize (corn) grits	ALINORM 85/23	Protein	ICC 105/1	_	I			1985	CCCPL	CODEX STAN 155 and CODEX STAN 234 mention the method ICC 105/l . The current version of the method is ICC 105/2	**Confirmed ICC 105/2 is current and is equivalent to AACCI 46-12.01 (1999)**
Durum wheat semolina and durum wheat flour	ALINORM 85/23	Protein	ICC 105/1	Titrimetry	I			1985	CCCPL	a)The CODEX STAN 178 mentions this method and also ISO 1871 b) CODEX STAN 234 mentions the principle Titrimetry, Kjeldahl digestion, type I c) The current version of the method is ICC 105/2	**ISO 1871 = Kjeldahl** ***Suggestion of other standards: NMKL 6 AACCI 46-12.01 is equivalent to ICC 105/2***
Fluid milk	ALINORM 97/23	Aflatoxin M1 0.05 µg/kg	AOAC 986.16	HPLC	Not described	95		1997	CCMMP	CODEX STAN 234 describes only methods for peanuts	**There is no commodity standard on fluid milk.**

											There is a ML as a contaminant. We suggest a full discussion on aflatoxins
Gari	ALINORM 89/23	Acidity	AOAC 14.064 AOAC 14.065	_	I			1989	CCCPL	a) CODEX STAN 234 does not describe this provision b) CODEX STAN 151 mentions AOAC 14.064 – 14.065 (not found) – or – ISO 7305 for total acidity. The standard was revised in 1998 c) The principle is not mentioned in the ALINORM neither in CODEX STAN 151	**need to add a provision in 234: CCCPL to recommend methods**
Honey	ALINORM 01/23	Acidity	MAFF Validated method V19, J A Public Analyst	Titrimetry	I			2001	CCS	This methods is mentioned in the CODEX STAN 12 and in CODEX STAN 234 b) Method MAFF was not readily available.	**?** **to be discussed within WG endorsement (*suggestion: replace by AOAC***

			1992, 28(4) 171-175								***962.19) (MAFF method available http://www.apajournal.org.uk/html/maff_validated_methods.html)***
Honey	ALINORM 97/23[A]	Mineral (ash) <1.0%	J. Assoc. Public Analysts (1992) <1.0% 28 (4) 177-181 MAFF Validated Method V20 for Mineral (ash) in Honey	Gravimetry (ignition at 600°C)	I			1997	CCS	a) This provision is not mentioned in the CODEX STAN 234 b) This method is not readily available	**?** ***(MAFF method available http://www.apajournal.org.uk/html/maff_validated_methods.html)***
Honey	ALINORM 01/23	Sugars added: detection of corn and cane sugar products.	AOAC 998.12.	Carbon isotope ratio mass spectrometry	I			2001	CCS	a) CODEX STAN 12 does not mention CODEX STAN 234. b) CODEX STAN 234 mention AOAC 978.17 for Sugars added: detection of	**AOAC 978 is replaced by AOAC 998.12**

										corn and cane sugar products	
Honey	ALINORM 99/23	Sugars added: detection of high fructose syrup, corn syrup.	AOAC ~~**979.22**~~ **AOAC 998.12**	Thin layer chromatography	II			1999	CCS	a) CODEX STAN 12 does not mention CODEX STAN 234. b) CODEX STAN 234 mentions AOAC 978.17 for Sugars added: detection of corn and cane sugar products c) CODEX STAN 12 mentions AOAC 991.41 internal standard for SCIRA (stable carbon isotope ratio analysis). for authenticity	**AOAC 978 is replaced by AOAC 998.12** **Same thing for AOAC 991.41**
Honey	ALINORM 01/23	Sugars added: for sugar profile	AOAC 998.~~**18**~~ **998.12**	Carbon isotope ratio mass spectrometry	I			2001	CCS	The CODEX STAN 12 mentions the AOAC 977.20 for sugar profile and AOAC 991.41 internal standard for SCIRA.	**The correct method is AOAC 998.12**

										The method AOAC 998.18 was not found	
Honey	ALINORM 99/23	Sugars added: for sugar profile	AOAC ~~977.20~~ **998.12**	Liquid chromatography	II			1999	CCS	a) The CODEX STAN 12 does not mention CODEX STAN 234. b) This method are mentioned in the CODEX STAN 12. c) CODEX STAN 234 mentions methods AOAC 998.18 as type I;	**The correct method is AOAC 998.12**
Kimchi	ALINORM 99/23	Drained weight	AOAC 968.30	Gravimetry	I			1999	CCPFV	a) The CODEX STAN 223 / 2001 , mention "See Codex Alimentarius Volume 13". B) CODEX STAN 234 doesn´t mention the commodity	**Codex 234 should include this commodity** ***Suggestion: NMKL 55***
Kimchi	ALINORM 99/23	Mineral impurities	AOAC 971.33	Ashing	I			1999	CCPFV	a) a) The CODEX STAN 223 / 2001 , mention "See Codex Alimentarius Volume 13".	**Codex STAN 234 should include this commodity**

										B) CODEX STAN 234 doesn´t mention the commodity c) CODEX STAN 234 mentions method AOAC 971.33 for many products.	
Kimchi	ALINORM 99/23	Salt (sodium chloride)	AOAC 971.27	Potentiometry (Determination of chloride, expressed as sodium chloride)	II			1999	CCPFV	a) a) The CODEX STAN 223 / 2001 , mention "See Codex Alimentarius Volume 13". B) CODEX STAN 234 doesn´t mention the commodity c) CODEX STAN 234 mentions method AOAC 971.27 for many products.	**Codex 234 should include this commodity**
Kimchi	ALINORM 99/23	Total acidity (as lactic acid)	AOAC 942.15	Tritrimetry	I			1999	CCPFV	a) a) The CODEX STAN 223 / 2001 , mention "See Codex Alimentarius Volume 13". B) CODEX STAN 234 doesn´t mention the	**Codex 234 should include this commodity**

										commodity c) CODEX STAN 234 mentions method AOAC 942.15 for many products.	
Luncheon meat	ALINORM 95/23	Lead	AOAC 972.25	Atomic absorption	II			1995	CCMPPP	a) CODEX STAN 89 mentions a different method: AOAC 934.07	**AOAC 934.07 is deleted.** **We would rather suggest a criteria approach to find most relevant methods.**
Mango Chutney	ALINORM 91/23	Total soluble solids	AOAC 932.14(c)	_	I			1991	CCPFV	a)There aren't methods in the CODEX STAN 160, just the expression "To be completed". b) In the CODEX STAN 234 is not mentioned this provision to this commodity c) There is provision CODEX STAN 160	**refer back to CCPFV**

Margarine	CODEX STAN 234	Milkfat	CAC/RM 15	Titrimetry	I				CCFO	The reference report was not found. There is not reference for this method on CODEX STAN 256	**listed in Codex STAN 256: AOAC 990.27 or AOCS Ca 5c-87(97)**
Margarine	CODEX STAN 234	Vitamin D	AOAC 936.14	Bioassay	II				CCFO	The method AOAC 981.17 is mentioned on CODEX STAN 256 as Type II	**Refer back to CCFO to update the methods (bioessay)** ***(suggestion of new methods: EN 12821, NMKL 167)***
Margarine	CODEX STAN 234	Vitamin E	IUPAC 2.411	TLC followed by spectrophotometry or GLC	II				CCFO	The reference report was not found. The method ISO 9936 is mentioned in CODEX STAN 256	**IUPAC method does not exist any more. Refer back to CCFO** ***suggestion of new methods: EN 12822, ISO 9936 could replace the IUPAC method***
Margarine	CODEX STAN 234	Water	CAC/RM 17-1969 (described	Gravimetry	I				CCFO	The reference report was not found. There is no reference value	**not needed, remove from Codex STAN 234**

			in the Standard)							for water on CODEX STAN 256	
Milk	ALINORM 97/23	Aflatoxin M1	IDF STD. 171	Immunoaffinity column & LC	II	95		1997	CCMMP	CODEX STAN 193 mentions the provision. CODEX STAN 234 mentions only methods for peanuts	**We suggest a general discussion on aflatoxins**
Milk & dried milk A-5 (milk powder)	ALINORM 97/23	Aflatoxin M1	IDF Std. 111 A	TLC/LC	Not described	95		1997	CCMMP	CODEX STAN 193 mentions the provision. CODEX STAN 234 mentions only methods for peanuts	**We suggest a general discussion on aflatoxins**
Minarine	CODEX STAN 234	Fat	IUPAC 2.801	Gravimetry	I				CCFO	The reference report was not found	**listed in Codex STAN 256: ISO 17189 | IDF 194**
Minarine	CODEX STAN 234	Milkfat	CAC/RM 15 (described in the Standard)	Titrimetry	I				CCFO	The reference report was not found. The CODEX STAN 256 does not describe this method.	**listed in Codex STAN 256: AOAC 990.27 or AOCS Ca 5c-87(97)**
Minarine	CODEX STAN 234	Sodium chloride	AOAC 971.27	Potentiometry	II				CCFO	CODEX STAN 256 mentions for	**listed in Codex STAN 256: ISO**

			(Codex general method)							determination of salt content the following methods: IDF 12B: 1988, ISO CD 1738 or AOAC 960.29.	**1738 | IDF 12** ***Suggestion to add also NMKL 178***
Minarine	CODEX STAN 234	Vitamin A	AOAC 960.45	Spectrophotometry	II				CCFO	CODEX STAN 256 mentions for determination of vitamin A content: AOAC 985.30; AOAC 992.04; or JAOAC 1980, 63, 4.	***Suggestion to add EN 12823-1***
Minarine	CODEX STAN 234	Vitamin D	AOAC 936.14	Bioassay	II				CCFO	CODEX STAN 256 mentions for determination of vitamin D content According to AOAC 981.17	***Suggestion to add EN 12821 NMKL 167***
Minarine	CODEX STAN 234	Vitamin E	IUPAC 2.411	TLC followed by spectrophotometry or GLC	II				CCFO	The reference report was not found. The CODEX STAN 256 mentions for vitamin E content ISO 9936:	***Suggestion to add EN 12822***
Minarine	CODEX STAN 234	Water	CAC/RM 17	Gravimetry	I				CCFO	The reference report was not found. There is no reference value	**not needed, remove from Codex STAN 234**

										for water on CODEX STAN 256	
Natural Mineral Waters	CODEX STAN 234	Spores of sulphite-reducing anaerobis (Clostridia)	ISO 6461-2	Membrane filtration	I				CCNMW	Out of CCMAS scope	**If it is deleted from 234, where will it be mentioned?**
Olive Oils and Olive Pomace Oils	CODEX STAN 234	Halogenated solvents, traces	COI/T.20/ Doc. no. 8	Gas chromatography	II				CCFO	This method was not found	**no provision in the comodity standard. delete the line in Codex STAN 234**
Pearl millet flour	CODEX STAN 234	Colour	Modern Cereal Chemistry, 6th Ed., D.W. Kent Jones & A.J. Amos, pp 605-612, Food Trade Press Ltd., London, 1969.	Colorimetry using specific colour grader	IV				CCCPL	The article is not readily available	**?**

Pearl millet flour	ALINORM 91/23	Crude Fat	AOAC 945.38F AOAC 920.39C	Gravimetry (ether extraction)	I			1991	CCCPL	a) CODEX STAN 170 mention these methods and ISO 5986 (withdrawn) b)In CODEX STAN 234 mention the method Gravimetry (ether extraction)	**See above**
Pickled Fruits and Vegetables	ALINORM 07/30/23	Benzoic acid	NMKL 103 or AOAC 983.16	Gas Chromatography	III			2007	CCPFV	a) CODEX STAN 234 doesn´t mention this commodity. The Codex Stan 260 mentions these methods. b) The method NMKL-AOAC Method Number 983.16 is for Fish/Fish Homogenate c) NMKL 103 is "Benzoic acid and sorbic acid in foods". The method is tested on apple juice, almond paste, and fish	**NMKL 103 was withdrawn because of chloroform.** ***Suggestion: NMKL recommand to use NMKL 124 (HPLC)***

										homogenate [at 0.5–2 g/kg levels], NMKL 103 is withdrawn in 2014 due to the use of chloroform.	
Powdered sugar (Icing sugar)	CODEX STAN 234	Polarization	ICUMSA GS 2/1/3-15	Polarimetry	I				CCS	a) CODEX STAN 212 mentions to see relevant Codex texts on methods of analysis and sampling b) The ICUMSA GS 2/1/3-15 method was not found	**Now: GS3-1**
Powdered sugar (Icing sugar)	ALINORM 95/23	Starch	TBD Proposed AOAC 925.50	Gravimetry	_			1995	CCS	a) The type isn't mentioned in the ALINORM 95.This is not mentioned in CODEX STAN 234 and in the CODEX STAN 212. The CODEX STAN 212 contains provision for starch.	**type I**
Processed fruits and vegetables	ALINORM 03/23	Fill of containers	CAC/RM 46	Weighing	I			2003	CCPFV	a) The standard was not found. B) The method is described in the	**The ISO standard is 90-1:1997** ***Suggestion to add***

										CODEX STAN 260 c) CODEX STAN 234 mentions CAC/RM 46-1972 (reference to "metal containers" deleted and refer to ISO 90.1:1999 for determination of water capacity in metal containers)	***NMKL 178 and ISO 8106***
Quick frozen blocks of fish fillet, minced fish flesh and mixtures of fillets and minced fish flesh	CODEX STAN 234	Sodium Chloride	AOAC 971.21 (Codex general method)	Potentiometry	II				CCFFP	a) There are methods in CODEX STAN 165 b) the method AOAC 971.21 is for Hg.	
Quick Frozen Brussels Sprouts	CODEX STAN 234	Cooking Procedure	CAC/RM 33-1970	cooking	I				CCPFV		**remove**

Quick frozen fruits and vegetables : Berries, leek and carrot	CODEX STAN 234	Mineral impurities	CAC/RM 54	Flotation and sedimentation	I				CCPFV		**remove**
Quick frozen fruits and vegetables	CODEX STAN 234	Net weight	CAC/RM 34-1970	Weighing	I				CCPFV	The reference report was not found	**new methods to be found**
Quick frozen fruits and vegetables	CODEX STAN 234	Thawing procedure	CAC/RM 32-1970	Thawing	I				CCPFV	The reference report was not found	**new methods to be found**
Quick frozen fruits and vegetables : Berries, Whole kernel corn and Corn-on-the-cob	CODEX STAN 234	Soluble solids, total	CAC/RM 43	Refractometry	I				CCPFV	The reference report was not found	**new methods to be found**

Quick frozen fruits and vegetables : Peaches and berries	CODEX STAN 234	Drained fruit/drained berries	Described in the Stan	Draining	I				CCPFV	The reference report was not found. The standard for this commodity was not found. The specific Codex commodities don´t describe the method	**new methods to be found**
Quick frozen fruits and vegetables : Vegetables	CODEX STAN 234	Cooking procedure	CAC/RM 33-1970	Cooking	I				CCPFV	The reference report was not found	**new methods to be found**
Quick Frozen Green Beans and Quick Frozen Wax Beans	CODEX STAN 234	Tough Strings	CAC/RM 39	Stretching	I				CCPFV	a) CODEX STAN 113 mentions :See relevant Codex texts on methods of analysis and sampling.	**new methods to be found**
Quick frozen peas	CODEX STAN 234	Solids, alcohol insoluble	CAC/RM 35	Gravimetry	II				CCPFV	The reference report was not found	**new methods to be found**

Quick Frozen Spinach	CODEX STAN 234	Dry matter, Salt-free	Described in the Standard	Weighing	I				CCPFV	CODEX STAN 77 doesn't describe the method	
Quick Frozen Spinach	ALINORM 78/25	mineral impurities	ISO-R 763	_	_			1978	CCPFV	a) CODEX STAN 234 doesn't mention this commodity. b) The CAC/RM were revoked , but the CAC/RM 46-1972 is described in CODEX STAN 234. c) The principle and type aren't mentioned in the ALINORM	
Raisins	CODEX STAN 234	Mineral impurities	CAC/RM 51-1974	Ashing	I				CCPFV	The reference report was not found	**new methods to be found**
Raisins	CODEX STAN 234	Mineral oil	CAC/RM 52-1974	Extraction and separation on alumina	II				CCPFV	The reference report was not found	**new methods to be found**
Sorghum flour	CODEX STAN 234	Colour	Modern Cereal Chemistry, 6th Ed.,	Colorimetry using specific colour	IV				CCCPL	a) CODEX STAN 173 mentions the same method The article is not readily available	**?**

			D.W. Kent-Jones and A.J. Amos (Ed.), pp. 605-612, Food Trade Press Ltd, London, 1969.	grader							
Sorghum flour	ALINORM 87/23	Crude Fat	ISO 5986, Animal Feeding Stuffs	_	I			1987	CCCPL	a) CODEX STAN 173 there are methods: AOAC 945.38F, 920.39C and ISO 5986 b)The Stan 234 does not mention ISO 5986 (withdrawn).	**See above**
Sorghum flour	CODEX STAN 234	Protein	ICC Method No 105/1	Titrimetry, Kjeldahl digestion	I				CCCPL	a) CODEX STAN 173 mention ICC 105/1 and ISO 1871 b) the correct version is ICC 105/2	**ISO 1871 = Kjeldahl** ***Suggestion of other standards: NMKL 6 AACCI 46-12.01 is equivalent to ICC***

											105/2
Sorghum grains	CODEX STAN 234	Fat Crude	AOAC 945.38F, 920.39C	Gravimetry	I				CCCPL	a) CODEX STAN 172 mentions methods AOAC 945.38F and 920.39C and ISO 5986:1983 – animal feedingstuff	**See above**
Sorghum grains	CODEX STAN 234	Protein	ICC Method No 105/1	Titrimetry, Kjeldahl digestion	I				CCCPL	a) CODEX STAN 172 there are the methods: ICC Method No 105/1 e ISO 1871 b) the correct version is ICC 105/2	**ISO 1871 = Kjeldahl** ***Suggestion of other standards: NMKL 6*** ***AACCI 46-12.01 is equivalent to ICC 105/2***
Sugars (fructose and lactose)	ALINORM 97/23A	pH 4.5-7.0	ICUMSA GS 1/2/3/4/7/8-23	Potentiometry	I			1997	CCS	CODEX STAN 212, item 6. METHODS OF ANALYSIS AND SAMPLING mentions See relevant Codex texts on methods of analysis and sampling. B) The correct	**Now: GS1/2/3/4/7/8/9-23**

										method is ICUMSA GS 1/2/3/4/7/8/9-23	
Sugars (fructose)	ALINORM 01/23	Conductivity ash	ICUMSA GS 2/3-17	Conductimetry	I			2001	CCS	a) The methods are not mentioned in the CODEX STAN 212. CODEX STAN 212 mentions "see CODEX STAN 234". b) The correct method is ICUMSA GS 2/3/9-17	**Now: GS2/3/9-17**
Sugars (plantation or mill white sugar)	ALINORM 01/23	Invert sugar	ICUMSA GS 2-6	Titrimetry	I			2001	CCS	a) The methods are not mentioned in the CODEX STAN 212. b) The CODEX STAN 212 mentions "see CODEX STAN 234". These methods are different from CODEX STAN 234 that mention ICUMSA GS 1/3/7-3 approved in the ALINORM 1997	**Now: GS1/3/7-3**
Sugars (powdere	ALINORM 97/23A	Conductivity ash	ICUMSA GS 2/3-17	Conductimetry	I			1997	CCS	a) CODEX STAN 212, item 6. METHODS OF	**Now: GS2/3/9-17**

d sugar)										ANALYSIS AND SAMPLING mentions See relevant Codex texts on methods of analysis and sampling. b) The correct method is ICUMSA GS 2/3/9-17	
Sugars (powdered sugar)	ALINORM 97/23A	Invert sugar	ICUMSA GS 2/3-5 : after filtration if necessary to remove any anticaking agents	Titrimetry	I			1997	CCS	a) CODEX STAN 212, item 6. METHODS OF ANALYSIS AND SAMPLING mentions See relevant Codex texts on methods of analysis and sampling. B) The ICUMSA GS 2/3-5 method was not found	**Now: GS 2/3/9-5**
Sugars (soft brown sugar)	ALINORM 97/23A	Sulphated ash	ICUMSA GS 1/3/4/7/8-11	Gravimetry	I			1997	CCS	a) CODEX STAN 212, item 6. METHODS OF ANALYSIS AND SAMPLING mentions: See relevant Codex texts on methods of	**Now: GS3/4/7/8-11**

										analysis and sampling. B) The ICUMSA GS 1/3/4/7/8-11 method was not found.	
Sugars (soft white sugar, soft brown sugar, white sugar, plantation or mill white sugar and powdered sugar)	ALINORM 97/23A	Loss on drying	ICUMSA GS 2/1/3-15	Gravimetry	I			1997	CCS	A) CODEX STAN 212, item 6. METHODS OF ANALYSIS AND SAMPLING mentions See relevant Codex texts on methods of analysis and sampling. B) The correct method is ICUMSA Method GS 2/1/3/9-15	**Now: GS2/1/3/9-15**
Sugars (white sugar)	ALINORM 97/23A	Conductivity ash	ICUMSA GS 2/3-17	Conductimetry	I			1997	CCS	a) CODEX STAN 212, item 6. METHODS OF ANALYSIS AND SAMPLING mentions See relevant Codex texts on methods of analysis and sampling.	**Now: GS2/3/9-17**

										b) The correct method is ICUMSA GS 2/3/9-17	
Sugars (white sugar)	ALINORM 97/23A	Invert sugar	ICUMSA GS 2/3-5	Titrimetry	I			1997	CCS	a) CODEX STAN 212, item 6. METHODS OF ANALYSIS AND SAMPLING mentions See relevant Codex texts on methods of analysis and sampling. B) The correct method is ICUMSA GS 2/3/9-5	**Now: GS2/3/9-5**
Vegetable protein products	CODEX STAN 234	Fat	CAC/RM 55-1976 - Method 1 Gravimetry (extraction)	Gravimetry (extraction)	I				CCVP	a) CODEX STAN 174 was approved in 1989 and doesn't mention methods	**?**
Wheat flour	CODEX STAN 234	Fat acidity	AOAC 939.05	Titrimetry	I				CCCPL	a) CODEX STAN 152 mentions methods: ISO 7305 and AOAC 939.05	**ISO 7305 validated for wheat flour** ***AACC 02-01.02 is identical to AOAC 939.05***

Wheat flour	CODEX STAN 234	Moisture	ISO 712 ICC Method No 110/1	Gravimetry	I				CCCPL	a) CODEX STAN 152 is not mentioned these methods	**delete in 234?**
Wheat flour	CODEX STAN 234	Protein	ICC Method No 105/1	Titrimetry, Kjeldahl digestion	I				CCCPL	a) CODEX STAN 152 mentions the same method:ICC Method No 105/I b) the correct version is ICC 105/2	**ISO 1871 = Kjeldahl** ***Suggestion of other standards: NMKL 6 AACCI 46-12.01 is equivalent to ICC 105/2***
Whole and Decorticated Pearl Millet Grain	ALINORM 91/23	Crude fat	AOAC 945.38F AOAC 920.39C	Gravimetry (ether extraction)	I			1991	CCCPL	a) The CODEX STAN 169 mentions these methods and the ISO 5986 (withdrawn)	**See above**
Bouillons and Consommés	CODEX STAN 234	Amino nitrogen	AIIBP Method No 2/7	Volumetry (modified Van Slyke)	II				CCSB	a) CODEX STAN 117 was approved in 2001 b) Methods AIIBP was not found.	**?**
Bouillons and Consomm	CODEX STAN 234	Creatinine	AIIBP Method No 2/5	HPLC	II				CCSB	a) CODEX STAN 117 was approved in 2001	**?**

és										b) Methods AIIBP was not found.	
Bouillons and Consommés	ALINORM 95/23	Sodium chloride	AIIBP Method No 2/4	Volhard titrimetry	II			1995	CCSB	a)There are methods mentioned in the Codex STAN 117- Method 2/4 of the AIIBP Official Collection of Methods of Analysis, Revision 1998; AOAC Method 971.27 (Codex general method) based on potentiometric determination); c) CODEX STAN 234 mentions a different principle: Potentiometric titration (chloride expressed as sodium chloride). d) The method was not found	**?**

APPENDIX II – METHODS WITH INACCURATE INFORMATION ENDORSED FOR LESS THAN 10 YEARS

Commodities	Source	Provision	Method	Principle	Type	Year Approval	Year Last revision	Year Endorsement by CCMAS	Committee	Remarks	
Blend of sweetened condensed skimmed milk and vegetable fat	REP14 /MAS	Milk protein in MSNF	ISO 8968-1/IDF 20-1/AOAC 991.20	Titrimetry (Kjeldahl	IV		2014 (IDF/ISO)	2014	CCMMP	a) There aren´t methods in the CODEX STAN 252 , just the expression see "CODEX STAN 234" b) It was not clear whether AOAC 991.20, listed as equivalent to the method in the Standard, is still equivalent to the newly proposed methods (REPORT 2014 , par. 27) c) The CODEX STAN 234 is not updated regarding to modification of ISO / IDF on 06/09/2014 d) It´s necessary to harmonize in all protein determination to milk products by kjeldahl the mention of total N x	**a) it is the harmonized way to refer to Codex STAN 234 in a Commodity standard** **b) AOAC 991.20 is not equivalent. So to be removed from Codex STAN 234** **C) Meanwhile Codex STAN 234 was updated**

										6,38 in the provision file e) Its necessary to verify the equivalence of methods	**e) see point b**
Canned Apple Sauce	REP13 /MAS	Fill of containers	CAC/RM 46-1972 (for glass containers)) and ISO 90-1.1 (for metal containers)	Weighing	I			2013	CCPFV	a) There are not methods mentioned in the CODEX STAN 17, just the expression see relevant CODEX Texts on Methods of Analysis b) The CAC/RM were revoked , but the CAC/RM 46 is described in CODEX STAN 234.	**see above**
Canned Green Peas	ALINO RM 09/32 /23	Proper fill (in lieu of drained	CAC/RM 45	Pouring and measuring	I			2009	CCPFV	a) CODEX STAN 234 mentions CAC/RM 45 b) CODEX STAN 297 describes CAC/RM 45	**Refer to CCPFV to propose new methods** ***We suggest for***

		weight)									***instance NMKL 55***
Canned Green peas	ALINORM 09/32/23	Types of peas	CAC/RM 48	Visual inspection	I			2009	CCPFV	a) CODEX STAN 234 mentions CAC/RM 48 b) CODEX STAN 297 describes CAC/RM 48.	**Refer to CCPFV to propose new methods**
Canned Green beans	ALINORM 09/32/23	Tough strings	CAC/RM 39	Stretching	I			2009	CCPFV	a) CODEX STAN 234 mentions CAC/RM 39 b) CODEX STAN 297 describes CAC/RM 39. c) The commodity on Stan 234 is canned green beans and wax beans	**refer to CCPFV**
Certain Canned Citrus Fruits	ALINORM 07/30/23	Fill of containers	CAC/RM 46 (Codex General Method for processed fruits and vegetables)	Weighing	I			2007	CCPFV	a) There are methods mentioned in Codex STAN 254: CAC/RM 46- (for glass containers) (Codex general method for processed fruit and vegetables) and ISO 90.1 (for metal containers) (Codex general method for processed fruit and vegetables) b) The ISO 90.1 is not	**see above**

										mentioned in ALINORM 2007 c) The provision is not mentioned on CODEX STAN 234 for this commodity	
Cheese, unripened including fresh cheese	REP14 /MAS	Milk protein	ISO 8968-1/IDF 20-1/AOAC 991.20 and 991.23	Titrimetry (Kjeldahl	I		2014 (IDF/ISO)	2014	CCMMP	a) It was not clear whether AOAC 991.20, listed as equivalent to the method in the Standard, is still equivalent to the newly proposed methods (REPORT 2014 , par. 27) b) The CODEX STAN 234 is not updated regarding to modification of ISO / IDF (on 06/09/2014). c) It´s necessary to harmonize in all protein determination to milk products by kjeldahl the mention of total N x 6,38 in the provision file d) CODEX STAN 234 mention ISO 8968-	**see above**

										1/2IDF 20-1/2	
Cocoa Butter	ALINORM 07/30/23	Free fatty acids	ISO660; or AOCS Cd 3d-63 (03)	Titrimetry	I			2007	CCCPC	a) The CODEX STAN 86 mentions the following methods: IUPAC (1987) 2.201. b) The CODEX STAN 234 mentions these methods	**IUPAC standard was removed so update CODEX STAN 86**
Cocoa Butter	ALINORM 07/30/23	Unsaponifiable matter	ISO 3596 or ISO 18609 or AOCS Ca 6b-53 (01)	Titrimetry after extraction with diethyl ether I	I			2007	CCCPC	a)The CODEX STAN 86 mentions IUPAC (1987) 2.401. b) The CODEX STAN 234 mentions these methods	**IUPAC standard was removed so update CODEX STAN 86**
Cream and Prepared Creams	REP14/MAS	Milk protein	ISO 8968-1/IDF 20-1/AOAC 991.20	Titrimetry (Kjeldahl	I		2014 (IDF/ISO)	2014	CCMMP	a) There isn't provision for Milk Protein on CODEX STAN 275. e) CODEX STAN 234 mentions ISO 8968-1/2 and IDF 20-1/2 b) It was not clear whether AOAC 991.20, listed as equivalent to the method in the Standard, is still	**a) the relevant Codex standard is Codex STAN 288; The provision is under section 3.2 permitted ingredients** **see above for the other comments**

										equivalent to the newly proposed methods (REPORT 2014 , par. 27) c) The information is outdated on CODEX STAN 234 regarding to ISO/IDF methods (09/06/2014). d) It´s necessary to harmonize in all protein determination to milk products by kjeldahl the mention of total N x 6,38 in the provision file.	
Edible casein products	REP14 /MAS	Milk protein (total N x 6.38 in dry matter)	ISO 8968-1|IDF 20-1	Titrimetry (Kjeldahl)	I		2014 (IDF/ISO)	2014	CCMMP	a)There aren't methods in the CODEX STAN 290, just the expression see "CODEX STAN 234" b) The information is outdated on CODEX STAN 234 regarding to ISO/IDF methods (on 09/06/2014). c) It´s necessary to harmonize in all protein determination to milk	**see above**

										products by kjeldahl the mention of total N x 6,38 in the provision file d) CODEX STAN 234 mention IDF 91 and ISO 5549	**d) Codex STAN 234 is now correct**
Evaporated milks	REP14 /MAS	Milk protein in MSNF	ISO 8968-1/ IDF 20-1/ AOAC 991.20 /AOAC 945.48H	Titrimetry (Kjeldahl)	I		2014 (IDF/ISO)	2014	CCMMP	a) There aren't methods in the CODEX STAN 281 b) It was not clear whether AOAC 991.20, listed as equivalent to the method in the Standard, is still equivalent to the newly proposed methods (REPORT 2014 , par. 27) c) The CODEX STAN 234 is not updated regarding to modification of ISO / IDF (on 06/09/2014). d) It´s necessary to	**see above**

										harmonize in all protein determination to milk products by kjeldahl	
Fats and oils	REP 11/MAS	Soap content	**~~BS 684 Section 2.5~~EN ISO 10539**/AOCS Cc 17-95	Gravimetry	I			2011	CCFO	a)The method in the CODEX STAN 19 is BS 684 Section 2.5	**BS 684 replaced by EN ISO 10539. AOACS and ISO 10539 are equivalent**
Fats and oils not covered by individual standards	REP 12/MAS	Peroxide value	AOCS Cd 8b-90 (11)/ISO **~~3961~~ 3960**	Titrimetry using iso-octane	I			2012	CCFO	a) The methods in the CODEX STAN 19 are IUPAC 2.501 (as amended), AOCS Cd 8b - 90 (97) or ISO 3961: 1998. b) C c) CODEX STAN 234 mention the methods AOCS Cd 8b-90 (11) ISO 3960	**ISO 3960 (peroxide) instead of 3961 (iodine) update STAND 19** **Suggestion to add also NMKL 158**
Fermented milks	REP14 /MAS	Milk Protein	ISO 8968-1|IDF 20-1/AOAC 991.20	Titrimetry (Kjeldahl)	I		2014 (IDF/ISO)	2014	CCMMP	a) There aren't methods in the CODEX STAN 243 b) It was not clear whether AOAC 991.20, listed as equivalent to	**see above**

										the method in the Standard, is still equivalent to the newly proposed methods (REPORT 2014 , par. 27) c) The CODEX STAN 234 is not updated regarding to modification of ISO / IDF (on 06/09/2014). d) It´s necessary to harmonize in all protein determination to milk products by kjeldahl the mention of total N x 6,38 in the provision file	
Fish sauce	Codex Stan 234	sodium chloride	AOAC 976.18,	potentiometry	II			2012	CCFFP	a) CODEX STAN 302 mentions the methods FAO 1981, Technical Paper 219 AOAC 937.13 or 976.18 or 976.19.	**refer to CCFFP**
Jams and jellies	ALINORM 09/32/23	fill of containers	CAC/RM 46	Weighing	I			2009	CCPFV	a) CODEX STAN 234 mentions and describes CAC/RM 46; b) CODEX STAN 296 mentions and describes CAC/RM 46 for glass	**see above**

										containers and mentions ISO90.1 to metal containers.	
Jams and jellies	ALINORM 09/32/23	Soluble solids	ISO 2173 AOAC 932.14C	Refractometry	I			2009	CCPFV	a) The methods mentioned on CODEX STAN 296 are AOAC 932.14C ISO 2173 (Codex General Method for processed fruits and vegetables) b) The Codex Stan 234 mentions AOAC 932.12	**ISO 2173: OK in Codex STAN 234** **for AOAC 932.12 or .14: refer to CCPFV**
Milk powders and cream powders	REP14/MAS	Milk Protein	ISO 8968-1/IDF 20-1/AOAC 991.21	Titrimetry (Kjeldahl)	I		2014 (IDF/ISO)	2014	CCMMP	a) There aren't methods in the CODEX STAN 207 , just the expression see "CODEX STAN 234" b) It was not clear whether AOAC 991.20, listed as equivalent to the method in the Standard, is still equivalent to the newly proposed methods (REPORT 2014 , par. 27) c) The CODEX STAN 234	**a to d) same as above**

										is not updated regarding to modification of ISO / IDF (on 06/09/2014). d) It´s necessary to harmonize in all protein determination to milk products by kjeldahl the mention of total N x 6,38 in the provision file e) The name of the provision on 234 and CODEX STAN 207 is Milk Protein (in MSNF)	**e) Codex STAN 234 is correct**
Named Animal Fats	REP 11/MAS	Acidity	ISO 660/AOCS Cd 3d-63	Titrimetry	I			2011	CCFO	a)The CODEX STAN 211 mentions IUPAC 2.201 and ISO 660	**delete IUPAC and update 211**
Named Animal Fats	REP 11/MAS	Copper and Iron	AOAC 990.05/ISO 8294/ AOCS Ca 18b-91	Atomic absorption Spectrophotometry (direct graphite furnace)	II			2011	CCFO	a)The CODEX STAN 211 mentions IUPAC 2631, AOAC 990.05/ISO 8294	**delete IUPAC and update 211**

Named Animal Fats	REP 11/MAS	GLC ranges of fatty acid composition	ISO 5508/ISO 12966-2/ AOCS Ce 2-66/~~Ce 1e-91/Ce 1f-96~~ **Ce 1e-13/Ce1g-07**	Gas chromatography of methyl esters	II			2011	CCFO	a)The methods in the CODEX STAN 211 are IUPAC 2.301, 2.302 and 2.304 or ISO 5508: 1995/ 5509: 1999. b) The method AOCS Ce1e 91 is not available	**delete IUPAC and update 211**
Named Animal Fats	REP 11/MAS	Relative density	ISO/AOCS method for apparent density to be inserted	Pycnometry	I			2011	CCFO	a)CODEX STAN 234 mentions type II and doesn't mention the method. b) CODEX STAN 211 mentions the IUPAC 2.101, with the appropriate conversion factor.	**CCFO adopted ISO 6883 and AOAC Cc-10c95** ***Suggest also ISO 18301***
Named Animal Fats	ALINORM 07/30/23	Saponification value	ISO 3657 or AOCS Cd 3-25	Titrimetry	I			2007	CCFO	a CODEX STAN 211 mention IUPAC 2.202 or ISO 3657: 1988.	**update stan 211**
Named Animal Fats	REP 12/MAS	Iodine value (IV)	ISO 3961/AOAC	Wijs-Titrimetry	I			2012	CCFO	a) There are methods in the CODEX STAN 211 IUPAC 2.205/1, ISO	***Suggestion: also equivalent to NMKL 39***

			993.20/AOCS Cd 1d-92							3961: 1996, AOAC 993.20, or AOCS Cd 1d-1992 (97).	
Named Animal Fats	REP 12/MAS	Peroxide value	AOCS Cd 8b-90/ISO 3960	Titrimetry using iso-octane	I			2012	CCFO	a) There are methods in the CODEX STAN 211 IUPAC 2.501 (as amended), AOCS Cd 8b-90 (97) or ISO 3960: 1998.	**update STAND 211** ***Suggestion: also equivalent to NMKL 158***
Named Animal Fats	REP 12/MAS	Unsaponifiable matter	ISO 3596/ ISO 18609/ AOCS Ca 6b-53	Titrimetry after extraction with diethyl ether	I			2012	CCFO	a) There are methods in the CODEX STAN 211: IUPAC 2.401 (part 1-5) or ISO 3596-1: 1988 and Amendment 1 1997, and ISO 3596-2: 1988 and Amendment 1 1999.	**OK for ISO 3596** **OK for ISO 18609** **udpate 211**
Named Vegetable Oils	REP 12/MAS	GLC ranges of fatty acid composition	ISO 5508, ISO 12966-2, AOCS Ce 2-66, ~~**AOCS Ce 1-62**~~ **AOCS Ce 1a-13** and	Gas chromatography of methyl esters	II			2012	CCFO	a) There are methods in the CODEX STAN 210-ISO 5508: 1990 and5509: 2000; or AOCS Ce 2-66 (97), Ce 1e-91 (01) or Ce 1f-96 (02).	**Ok for ISO 5508** **Ok for ISO 12966-2** **update stan 211 to reflect 234** **replace AOCS Ce 1-62 by AOCS Ce 1a-13**

			AOCS Ce 1h-05								
Named Vegetable Oils	REP 11/MAS	Relative density	IUPAC 2.101	Pycnometry	I			2011	CCFO	a) CODEX STAN 234 and CODEX STAN 210 mention IUPAC method	**see above**
Natural Mineral Waters	CODEX STAN 234	Coliform organism, thermotolerant organism and presumptive Escherichia Coli	ISO 9308-1	Membrane filtration	I				CCNMW	Out of CCMAS scope	**If it is deleted from 234, where will it be mentioned?**
Natural Mineral Waters	CODEX STAN 234	Faecal Streptococci	ISO 7899-2	Membrane filtration	I				CCNMW	Out of CCMAS scope	**If it is deleted from 234, where will it be mentioned?**
Olive Oils and Olive Pomace Oils	REP 11/MAS	Relative density	IUPAC 2.101, with the appropriate	Pycnometry	I			2011	CCFO	a) CODEX STAN 033 and CODEX STAN 234 mentions the IUPAC method. B) CODEX STAN 234	**see above**

			conversion factor See comment above							mentions "Error. Bookmarking not defined"	
Pickled Fruits and Vegetables	ALINORM 07/30/23	Fill of containers	CAC/RM 46 (Codex General Method for processed fruits and vegetables)	Weighing	I			2007	CCPFV	a) CODEX STAN 234 doesn´t mention this commodity B) There are a full description of methods on CODEX STAN 260 c) The CAC/RM were revoked , but the CAC/RM 46 is described in the CODEX STAN 234.	**see above**
Preserved Tomatoes	ALINORM 07/30/23	Fill of containers	CAC/RM 46 - Codex General Method for processed fruits and vegetabl	Weighing	I			2007	CCPFV	a) There are methods mentioned in the CODEX STAN 13: CAC/RM 46 (for glass containers) (Codex general method for processed fruit and vegetables) and ISO 90.1 (for metal containers) (Codex general method	**see above**

			es)							for processed fruit and vegetables) b)The provision "is not mentioned in the Codex Stan 234	
Processed Tomato Concentrate	CODEX STAN 234	sodium chloride	AOAC 971.27	Potentiometry	II				CCPFV	a) The CODEX STAN 57 mentions for Sodium Chloride ISO 3634 expressed as sodium chloride (Codex General Method), Potentiometry, type: III.	**NMKL 178 is equivalent to AOAC 971.27**
Processed Tomato Concentrate	ALINORM 07/30/23	Fill of containers	CAC/RM 46 (Codex General Method for processed fruits and vegetables)	Weighing	I			2007	CCPFV	a) CODEX STAN 57 mentions CAC/RM 46-1972 (for glass containers) (Codex general method for processed fruit and vegetables) and ISO 90.1:1999 for metal containers) (Codex general method for processed fruit and vegetables) b)The provision is not mentioned in the Codex	**see above**

										Stan 234	
Processed Tomato Concentrate	ALINORM 07/30/23	Lactic Acid	~~EN 2631~~ **EN 12631**	Enzymatic determination	II			2007	CCPFV	The CODEX STAN 57 and CODEX STAN 234 mention this method. The method was not found	**please correct EN 12631 instead of EN 2631 (typing error)**
Reduced fat blend of Evaporated skimmed milk and vegetable fat	REP14/MAS	Milk protein in MSNF1	ISO 8968-1/IDF 20-1/AOAC 991.20	Titrimetry (Kjeldahl)	IV		2014 (IDF/ISO)	2014	CCMMP	a) There aren't methods in the CODEX STAN 250 b) It was not clear whether AOAC 991.20, listed as equivalent to the method in the Standard, is still equivalent to the newly proposed methods (REPORT 2014 , par. 27) c) The CODEX STAN 234 is not updated regarding to modification of ISO / IDF (06/09/2014).	**see above**
Reduced fat blend of skimmed milk powder	REP14/MAS	Milk protein in MSNF1	ISO 8968-1/IDF 20-1/AOAC	Titrimetry (Kjeldahl	IV		2014 (IDF/ISO)	2014	CCMMP	a) There aren't methods in the CODEX STAN 251 b) It was not clear	**see above**

and vegetable fat in powdered form			991.20							whether AOAC 991.20, listed as equivalent to the method in the Standard, is still equivalent to the newly proposed methods (REPORT 2014 , par. 27) c) The CODEX STAN 234 is not updated regarding to modification of ISO/IDF (on 06/09/2014)	
Reduced fat blend of sweetened condensed skimmed milk and vegetable fat	REP14 /MAS	Milk protein in MSNF[1]	ISO 8968-1/IDF 20-1/AOAC 991.20	Titrimetry (Kjeldahl	IV		2014 (IDF/ISO)	2014	CCMMP	a) There aren't methods in the CODEX STAN 252" b) It was not clear whether AOAC 991.20, listed as equivalent to the method in the Standard, is still equivalent to the newly proposed methods(REPORT 2014 , par. 27) c) The CODEX STAN 234 is not updated regarding to modification of ISO/IDF (on 06/09/2014)	**see above**

Sweetened condensed milk	REP14 /MAS	Milk protein in MSNF[1]	ISO 8968-1 |IDF 20-1/ AOAC 991.20 /AOAC 945.48H	Titrimetry (Kjeldahl)	I		2014 (IDF/ISO)	2014	CCMMP	a) There aren't methods in the CODEX STAN 282 b) It was not clear whether AOAC 991.20, listed as equivalent to the method in the Standard, is still equivalent to the newly proposed methods (REPORT 2014 , par. 27) c) The CODEX STAN 234 is not updated regarding to modification of ISO / IDF (on 06/09/2014).	**see above**
Table olives	REP13 /MAS	Fill of containers	CAC/RM 46 (for glass containers) and ISO 90-1.1 (for metal containers)	Weighing	I			2013	CCPFV	a) There are methods mentioned in the CODEX STAN 66 b) There are a full description of the method on CODEX/STAN 66 c) The CAC/RM were revoked , but the CAC/RM 46 is described in CODEX STAN 234	**see above**

Table olives	REP13 /MAS	Tin	NMKL 191 | EN 15765	ICP-MS	III			2013	CCPFV	a) There isn't mention of these methods in CODEX STAN 234 .The CODEX STAN 66 mentions AOAC 980.19 as Type II	**we would rather suggest a criteria approach to find also other relevant methods.**

[1] It´s necessary to harmonize in all protein determination to milk products by kjeldahl the mention of total N x 6,38 in the provision file