RECOMMENDED METHODS OF ANALYSIS AND SAMPLING

CODEX STAN 234-1999¹

PART A

METHODS OF ANALYSIS BY COMMODITY CATEGORIES AND NAMES PART B

METHODS OF SAMPLING BY COMMODITY CATEGORIES AND NAMES

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The most updated version of the method should be used, in application of ISO/IEC 17025: 19992005. The present list of methods reflects the amendments adopted by the 35th Session of the Codex Alimentarius Commission in 2013.

PART A METHODS OF ANALYSIS BY COMMODITY CATEGORIES AND NAMES

Commodity	Provision	Method	Principle	Туре
All Foods				
All foods	Acesulfame K, Aspartame	EN 12856 : 1999-04	High performance liquid chromatography	II
All foods	Cyclamate	EN 12857 : 1999-04	High performance liquid chromatography	II
All foods	Cyclamate	NMKL 123 (1998)	Spectrophotometry	III
All foods	Saccharin	EN 12856 : 1999-04	High performance liquid chromatography	III
All Foods (see also meat products)	Nitrates and/or Nitrites	EN 12014-1:1997-04	Part 1- General considerations	N/A
Individual Foods ²	Sulphites	EN 1988-1 : 1998-02 AOAC 990.28	Part 1: Optimized Monier-Williams method	III
Individual Foods ³	Sulphites	EN 1988-2:1998 -02 NMKL 135 (1990)	Part 2: Enzymatic method	III
Cereals, Pulses and Legumes and D	erived Products			_
Certain pulses	Moisture	ISO 665: 1977-2000 (confirmed 1995 <u>2012</u>)	Gravimetry	I
Degermed maize (corn) meal and maize (corn) grits	Ash	AOAC 923.03 ISO 2171: <u>19932007 (confirmed 2011)</u> ICC Method No 104/1 (1990)	Gravimetry	I
Degermed maize (corn) meal and maize (corn) grits	Fat, crude	AOAC 945.38F; 920.39C	Gravimetry (ether extraction)	I

Hominy, fruit juice, sea food
Wine, dried apples, lemon juice, potato flakes, sultanas, beer

Degermed maize (corn) meal and maize (corn) grits	Moisture	ISO 712: <u>19982009</u> ICC Method No 110/1 (1986)	Gravimetry	I
Degermed maize (corn) meal and maize (corn) grits	Particle size (granularity)	AOAC 965.22	Sieving	I
Degermed maize (corn) meal and maize (corn) grits	Protein	ICC Method No 105/1 (1986)	Titrimetry, Kjeldahl digestion	I
Durum wheat semolina and durum wheat flour	Ash (semolina)	AOAC 923.03 ISO 2171: 1993 2007 (confirmed 2011)	Gravimetry	I
Durum wheat semolina and durum wheat flour	Moisture	ISO 712: 1998 2009 ICC Method 110/1 (1986)	Gravimetry	I
Durum wheat semolina and durum wheat flour	Protein (N x 5.7)	ICC Method No 105/1	Titrimetry, Kjeldahl digestion	I
Instant Noodles	Extraction of oil from instant noodles	described in the standard	Gravimetry	I
Instant Noodles	Acid Value	described in the standard	Titrimetry	I
Instant Noodles	Moisture	described in the standard	Gravimetry	I
Maize (corn)	Moisture	ISO 6540:1980 (confirmed 19942011)	Gravimetry	I
Peanuts (raw)	Aflatoxins, total	AOAC 991.31	Immunoaffinity column (Aflatest)	II
Peanuts (raw)	Aflatoxins, total	AOAC 993.17	Thin layer chromatography	III
Peanuts (intended for further processing)	Aflatoxins, total	AOAC 975.36	Romer minicolmn	III
Peanuts (Cereals, shell-fruits and derived products (including peanuts))	Sum of aflatoxins B_1 , B_2 , G_1 and G_2	EN 12955 : 1999-07 EN ISO 16050:2003 (confirmed 2009)	HPLC with post column derivatization and immunoaffinity column clean up	III
Peanuts (intended for further processing)	Aflatoxins, total	AOAC 979.18	Holaday-Velasco minicolumn	III
Pearl millet flour	Ash	AOAC 923.03	Gravimetry	I
Pearl millet flour	Colour	Modern Cereal Chemistry, 6th Ed., D.W. Kent-Jones and A.J. Amos (Ed.), pp. 605- 612, Food Trade Press Ltd, London, 1969.	Colorimetry using specific colour grader	IV

Pearl millet flourFat, crudeAOAC 945.38F; 920.39CGravimetry (ether extended pearl millet flourPearl millet flourFibre, crudeISO 5498:1981 (B.5 Separation) (confirmed 2008)GravimetryPearl millet flourMoistureISO 712: 19982009 (ICC Method No 110/1 (1986))GravimetryPearl millet flourProteinAOAC 920.87Titrimetry, Kjeldahl of GravimetrySorghum flourAshAOAC 923.03 (Gravimetry)	I
Pearl millet flour Moisture ISO 712: 19982009 Gravimetry ICC Method No 110/1 (1986) Pearl millet flour Protein AOAC 920.87 Titrimetry, Kjeldahl of Sorghum flour Ash AOAC 923.03 Gravimetry	
Pearl millet flour Protein AOAC 920.87 Titrimetry, Kjeldahl of Sorghum flour Ash AOAC 923.03 Gravimetry	
Sorghum flour Ash AOAC 923.03 Gravimetry	digestion I
	I
ISO 2171: <u>19932007 (confirmed 2011)</u> ICC Method No 104/1 (1990)	
Sorghum flour Colour Modern Cereal Chemistry, 6th Ed., D.W. Colorimetry using sp. Kent-Jones and A.J. Amos (Ed.), pp. 605-grader 612, Food Trade Press Ltd, London, 1969.	pecific colour IV
Sorghum flour Fat, crude AOAC 945.38F; 920.39C Gravimetry (ether extended to the content of the	traction) I
Sorghum flour Fibre, crude ICC Method No 113 (1972) Gravimetry ISO 6541:1981 (confirmed 19962008)	I
Sorghum flour Moisture ISO 712:19982009 Gravimetry ICC Method No 110/1 (1986)	I
Sorghum flour Particle size (granularity) AOAC 965.22 Sieving	I
Sorghum flour Protein ICC Method No 105/1 (1986) Titrimetry, Kjeldahl o	digestion I
Sorghum flour Tannins ISO 9648:1988 (confirmed 19942009) Spectrophotometry	I
Sorghum grains Ash AOAC 923.03 ISO 2171: 1993 2007 (confirmed 2011) ICC Method No 104/1 (1990) Gravimetry	I
Sorghum grains Fat, crude AOAC 945.38F, 920.39C Gravimetry (ether extends of the control of the	traction) I
Sorghum grains Moisture ISO 6540:1980 (confirmed 19942011) Gravimetry	I
Sorghum grains Protein ICC Method No 105/1 (1986) Titrimetry, Kjeldahl o	digestion I
Sorghum grains Tannins ISO 9648:1988 (confirmed 19942009) Spectrophotometry	I

Soy protein products	Ash	AOAC 923.03 ISO 2171: 1993 2007 (Method B) (confirmed 2011)	Gravimetry	I
Soy protein products	Fat	CAC/RM 55-1976 - Method 1	Gravimetry (extraction)	I
Soy protein products	Fibre, crude	ISO 5498:1981 (confirmed in 2008)	Gravimetry	I
Soy protein products	Moisture	AOAC 925.09	Gravimetry (vacuum oven)	I
Soy protein products	Protein	AOAC 955.04D (using factor 6.25)	Titrimetry, Kjeldahl digestion	II
Vegetable protein products	Ash	AOAC 923.03 ISO 2171: 1993 2007 (Method B) (confirmed 2011)	Gravimetry, Direct	I
Vegetable protein products	Fat	CAC/RM 55-1976 - Method 1	Gravimetry (extraction)	I
Vegetable protein products	Fibre, crude	AACC (1982) 32-17	Ceramic fiber filteration	I
Vegetable protein products	Moisture	AOAC 925.09	Gravimetry (vacuum oven)	I
Vegetable protein products	Protein	AOAC 955.04D (using factor 6.25)	Titrimetry, Kjeldahl digestion	II
Wheat flour	Ash	AOAC 923.03 ISO 2171: <u>19932007 (confirmed 2011)</u> ICC Method No 104/1 (1990)	Gravimetry	I
Wheat flour	Fat acidity	AOAC 939.05	Titrimetry	I
Wheat flour	Moisture	ISO 712: 1998 <u>2009</u> ICC Method No 110/1 (1986)	Gravimetry	I
Wheat flour	Particle size (granularity)	AOAC 965.22	Sieving	I
Wheat flour	Protein	ICC Method No 105/1 (1986)	Titrimetry, Kjeldahl digestion	I
Wheat protein products including wheat gluten	Protein	Vital wheat gluten and devitalized wheat gluten AOAC 979.09 (wheat protein in grain Nx5.7)	Kjeldahl	I

		Solubilized wheat protein AOAC 920.87	Kjeldahl	I
		(wheat protein in flour Nx5.7)		
Wheat protein products including Wheat gluten	Fibre, crude	AOAC 962.09	Ceramic fiber filteration	I
Wheat protein products including Wheat gluten	Ash	AOAC 923.03 ISO 2171: 1980 2007 , method B (confirmed 2011)	Gravimetry	I
Whole and decorticated pearl millet grains	Ash	AOAC 923.03	Gravimetry	Ι
Whole and decorticated pearl millet grains	Fat, crude	AOAC 945.38F; 920.39C	Gravimetry (ether extraction)	I
Whole and decorticated pearl millet grains	Fibre, crude	ISO 5498:1981 (B.5 Separation) (confirmed 2008)	Gravimetry	I
Whole and decorticated pearl millet grains	Moisture	ISO 712: <u>2009</u> 1998 ICC Method No 110/1 (1986)	Gravimetry	I
Whole and decorticated pearl millet grains	Protein	AOAC 920.87	Titrimetry, Kjeldahl digestion	I
Whole maize (corn) meal	Ash	AOAC 923.03 ISO 2171: <u>19932007 (confirmed 2011)</u> ICC Method No 104/1 (1990)	Gravimetry	I
Whole maize (corn) meal	Fat, crude	AOAC 945.38F; 920.39C	Gravimetry (ether extraction)	I
Whole maize (corn) meal	Moisture	ISO 712: <u>2009</u> 1998 ICC Method No 110/1 (1986)	Gravimetry	Ι
Whole maize (corn) meal	Particle size (granularity)	AOAC 965.22	Sieving	I
Whole maize (corn) meal	Protein	ICC Method No 105/1 (1986)	Titrimetry, Kjeldahl digestion	I

Cocoa Products and Chocolate				
Chocolate and chocolate products	Cocoa butter	AOAC 963.15 IOCCC 14-1972	Gravimetry (Soxhlet extraction)	I
Chocolate and chocolate products	Fat-free cocoa solids	AOAC 931.05	Oven evaporation and factor	I
Chocolate and chocolate products	Fat-free milk solids	IOCCC 17-1973 or AOAC 939.02	Titrimetry, Kjeldahl digestion; after extraction of milk proteins	II
Chocolate and chocolate products	Fat, total	AOAC 963.15	Gravimetry (Soxhlet extraction)	I
Chocolate and chocolate products	Milkfat	IOCCC 5-1962 AOAC 945.34; 925.41B; 920.80	Titrimetry/Distillation	I
Chocolate and chocolate products	Moisture	IOCCC 26-1988 or AOAC 977.10 (Karl Fischer method); or AOAC 931.04 or IOCCC 1-1952	Gravimetry	I
Chocolate and chocolate products	Non-cocoa butter vegetable fat	AOCS Ce 10/02 and described in the Standard	Described in the Standard	I
Cocoa (Cacao) Mass or Cocoa/ Chocolate Liquor, and Cocoa Cake	Cocoa shell	AOAC 968.10 and 970.23	Spiral vessel count, Stone cell count	I
Cocoa (Cacao) Mass or Cocoa/ Chocolate Liquor, and Cocoa Cake	Fat	AOAC 963.15 or IOCCC 14 (1972)	Gravimetry (Soxhlet extraction)	I
Cocoa butter	Free fatty acids	ISO_660: 1996 amended 2003 2009; or AOCS Cd 3d-63 (03)	Titrimetry	I
Cocoa butter	Unsaponifiable matter	ISO 3596:2000 (confirmed 2011) or ISO 18609:-2000 (confirmed 2011); or AOCS Ca 6b-53 (01)	Titrimetry after extraction with diethyl ether	Ι
Cocoa powders (cocoa) and dry cocoasugar mixtures	Moisture	IOCCC 26-1988 or AOAC 977.10 (Karl Fischer method)	Gravimetry	I
Fats and Oils and Related Products				
Fats and Oils (all)	Arsenic	AOAC 952.13 (Codex general method)	Colorimetry (diethyldithiocarbamate)	II

Fats and Oils (all)	Arsenic	AOAC 942.17 (Codex general method)	Colorimetry (molybdenum blue)	III
Fats and Oils (all)	Arsenic	AOAC 986.15 (Codex general method)	Atomic absorption spectrophotometry	III
Fats and oils	Butylhydroxyanisole, butylhydroxytoluene, tert- butylhydroquinone, & propyl gallate	AOAC 983.15; or AOCS Ce-6-86 (09)	Liquid chromatography	П
Fats and Oils (all)	Insoluble impurities	ISO 663:2007 (confirmed 2010)	Gravimetry	I
Fats and Oils (all)	Lead	AOAC 994.02 ISO 12193:2004 (Codex general method) or AOCS Ca 18c-91 (09)	Atomic absorption spectrophotometry (direct graphite furnace)	II
Fats and Oils (all)	Matter volatile at 105°C	ISO 662:1998 (confirmed 2009)	Gravimetry (open-drying)	I
Fats and Oils (all)	Soap content	BS 684 Section 2.5; or AOCS Cc 17-95 (09)	Gravimetry	I
Fats and oils not covered by individual standards	Acid Value	ISO 660:2009; or AOCS Cd 3d-63 (09)	Titrimetry	I
Fats and oils not covered by individual standards	Copper and Iron	AOAC 990.05 ISO 8294: 20071994 (confirmed 2012) or AOCS Ca 18b-91 (09) (Codex general method)	Atomic absorption Spectrophotometry (direct graphite furnace)	II
Fats and oils not covered by individual standards	Peroxide value	AOCS Cd 8b-90 (11) ISO 3960:2007 (confirmed 2010)	Titrimetry using iso-octane	I
Fat spreads and blended spreads	Fat content	ISO 17189 IDF 194: 2003	Gravimetry	I
Named Animal Fats	Acidity	ISO 660:2009; or AOCS Cd 3d-63 (09)	Titrimetry	I
Named Animal Fats	Copper and Iron	AOAC 990.05 ISO 8294:1994; (confirmed 2012) or AOCS Ca 18b-91 (09) (Codex general method)	Atomic absorption Spectrophotometry (direct graphite furnace)	II
Named Animal Fats	GLC ranges of fatty acid composition	ISO 5508:1990 (confirmed 2011) and ISO 12966-2:2011 or AOCS Ce 2-66 (09) and Ce 1e-91 (09) or Ce 1f-96 (09)	Gas chromatography of methyl esters	П

Named Animal Fats	Iodine value (IV)	ISO 3961:-20092013; or AOAC 993.20; or AOCS Cd 1d-92 (09)	Wijs-Titrimetry	I
Named Animal Fats	Peroxide value	AOCS Cd 8b-90 (09) ISO 3960:2007 (confirmed 2010)	Titrimetry using iso-octane	I
Named Animal Fats	Relative density	ISO/AOCS method for apparent density to be inserted	Pycnometry	П
Named Animal Fats	Refractive index	ISO 6320:2000 and corr 2006; or AOCS Cc 7-25 (09)	Refractometry	II
Named Animal Fats	Saponification value	ISO 3657: 2002 2013; or AOCS Cd 3-25 (11)	Titrimetry	I
Named Animal Fats	Unsaponifiable matter	ISO 3596:2000 (confirmed 2011) or ISO 18609: 2000 (confirmed 2011); or AOCS Ca 6b-53 (11)	Titrimetry after extraction with diethyl ether	I
Named Animal Fats	Titre	ISO 935:1988 (confirmed 2012); or AOCS Cc 12-59 (09)	Thermometry	I
Named Vegetable Oils	Acidity	ISO 660:2009; or AOCS Cd 3d-63 (09)	Titrimetry	I
Named Vegetable Oils	Apparent density	ISO 6883: 2007, with the appropriate conversion factor; or AOCS Cc 10c-95 (09)	Pycnometry	I
Named Vegetable Oils	Baudouin test (modified Villavecchia or sesameseed oil test)	AOCS Cb 2-40 (09)	Colour reaction	I
Named Vegetable Oils	Carotenoids, total	BS 684 Section 2.20	Spectrophotometry	II
Named Vegetable Oils	Copper and iron	ISO 8294:-1994 (confirmed 2012); or AOAC 990.05; or AOCS Ca 18b-91 (09)	AAS	II
Named Vegetable Oils	Crismer value	AOCS Cb 4-35 (09) and AOCS Ca 5a-40 (12)	Turbidity	Ι
Named Vegetable Oils	GLC ranges of fatty acid composition	ISO 5508:1990 (confirmed 2011) and ISO 12966-2:2011; or AOCS Ce 2-66 (09) and Ce 162 (09) or Ce 1h-05 (09)	Gas chromatography of methyl esters	II
Named Vegetable Oils	Halphen test	AOCS Cb 1-25 (09)	Colorimetry	I
Named Vegetable Oils	Insoluble impurities	ISO 663:-2007 (confirmed 2010)	Gravimetry	I

Named Vegetable Oils	Iodine value (IV)	Wijs - ISO 3961:—20092013; or AOAC 993.20; or AOCS Cd 1d-92 (09); or NMKL 39 (2003)	Wijs-Titrimetry ⁴	Ι
Named Vegetable Oils	Lead	AOAC 994.02; or ISO 12193:-2004; or AOCS Ca 18c-91 (03)	Atomic Absorption	II
Named Vegetable Oils	Moisture & volatile matter at 105°C	ISO 662:-1998 (confirmed 2009)	Gravimetry	I
Named Vegetable Oils	Peroxide value (PV)	AOCS Cd 8b-90 (11); or ISO 3960: 2007 (confirmed 2010)	Titrimetry	I
Named Vegetable Oils	Refractive index	ISO 6320: 2000 and corr 2006; or AOCS Cc 7-25 (09)	Refractometry	II
Named Vegetable Oils	Reichert value and Polenske value	AOCS Cd 5-40 (09)	Titrimetry	I
Named Vegetable Oils	Relative density	IUPAC 2.101 with the appropriate conversion factor See comment above (Named Animal Fats) ⁵	Pycnometry	I
Named Vegetable Oils	Saponification value (SV)	ISO 3657:—20022013; or AOCS Cd 3-25 (11)	Titrimetry	I
Named Vegetable Oils	Slip point	ISO 6321:2002 (confirmed 2012) for all oils; AOCS Cc 3b-92 (09) for all oils except palm oils; AOCS Cc 3-25 (09) for palm oils only	Open ended capillary tube	I
Named Vegetable Oils	Soap content	BS 684 Section 2.5; or AOCS Cc 17-95 (09)	Gravimetry	I
Named Vegetable Oils	Sterol content	ISO 12228:-1999 <u>(confirmed 2009)</u> ; or AOCS Ch 6-91 (11)	Gas chromatography	II

⁴ It is possible to calculate the Iodine Value from fatty acid composition data obtained by gas chromatography e.g. using AOCS Cd 1b-87 (09)

The method is no longer available.

Named Vegetable Oils	Tocopherol content	ISO 9936:2006 and corrigendum 2008 or AOCS Ce 8-89 (09)	HPLC	II
Named Vegetable Oils	Unsaponifiable matter	ISO 3596:2000 (confirmed 2011); or ISO 18609: 2000 (confirmed 2011); or AOCS Ca 6b-53 (11)	Gravimetry	Ι
Olive Oils and Olive Pomace Oils	Absorbency in ultra-violet	COI/T.20/Doc. No. 19 or ISO 3656:2011 or AOCS Ch 5-91 (09).	Absorption in ultra violet	II
Olive Oils and Olive Pomace Oils	Acidity, free (acid value)	ISO 660:2009 or AOCS Cd 3d-63 (09)	Titrimetry	Ι
Olive Oils and Olive Pomace Oils	Alpha-tocopherol	ISO 9936 <u>:2006 and corrigendum</u> <u>2008</u> <u>:1997</u>	HPLC	II
Olive Oils and Olive Pomace Oils	Difference between the actual and theoretical ECN 42 triglyceride content	COI/T.20/Doc. no. 20 or AOCS Ce 5b-89 (11)	Analysis of triglycerides of HPLC and calculation	I
Olive Oils and Olive Pomace Oils	Erythrodiol + uvaol	COI/T.20/doc.No 30-2011	Gas chromatography	II
Olive Oils and Olive Pomace Oils	Halogenated solvents, traces	COI/T.20/Doc. no. 8	Gas chromatography	II
Olive Oils and Olive Pomace Oils	Insoluble impurities in light petroleum	ISO 663:2007 (confirmed 2010)	Gravimetry	I
Olive Oils and Olive Pomace Oils	Iodine value	ISO 3961: 2009 2013 or AOAC 993.20 or AOCS Cd 1d-92 (09) or NMKL 39 (2003)	Wijs-Titrimetry	I
Olive Oils and Olive Pomace Oils	Iron and copper	ISO 8294:1994 (confirmed 2012) or AOAC 990.05	AAS	II
Olive Oils and Olive Pomace Oils	Lead	AOAC 994.02 or ISO 12193:2004 or AOCS Ca 18c-91(09)	AAS	II
Olive Oils and Olive Pomace Oils	Moisture and volatile matter	ISO 662:1998 (confirmed 2009)	Gravimetry	I
Olive Oils and Olive Pomace Oils	Organoleptic characteristics	COI/T.20/Doc. no. 15	Panel test	I
Olive Oils and Olive Pomace Oils	Peroxide value	ISO 3960:2007 (confirmed 2010) or AOCS Cd 8b-90 (11)	Titrimetry	I
Olive Oils and Olive Pomace Oils	Relative density	IUPAC 2.101, with the appropriate conversion factor. See comment above Hiba! A könyvjelző nem létezik.6	Pycnometry	I
Olive Oils and Olive Pomace Oils	Refractive index	ISO 6320:2000 and corr 2006 or AOCS Cc 7-25 (09)	Refractometry	II

Olive Oils and Olive Pomace Oils	Saponification value	ISO 3657: 2002 2013 or AOCS Cd 3-25 (11)	Titrimetry	Ι
Olive Oils and Olive Pomace Oils	Sterol composition and total sterols	COI/T.20/Doc. no. 10 or ISO 12228:1999 (confirmed 2009) or AOCS Ch 6-91 (11).	Gas chromatography	II
Olive Oils and Olive Pomace Oils	Stigmastadienes	COl/T.20/Doc. no. 11 or ISO 15788- 1:1999 or AOCS Cd 26-96 (09).	Gas chromatography	II
Olive Oils and Olive Pomace Oils	Stigmastadienes	ISO 15788-2: 2003	HPLC	III
Olive Oils and Olive Pomace Oils	Trans fatty acids content	COI/T.20/Doc no. 17 or ISO 15304:2002 (confirmed 2011) or AOCS Ch 2a-94(11)	Gas chromatography of methyl esters	II
Olive Oils and Olive Pomace Oils	Unsaponifiable matter	ISO 3596:2000 (confirmed 2011) or ISO 18609:2000 (confirmed 2011) or AOCS Ca 6b-53 (11)	Gravimetry	I
Olive Oils and Olive Pomace Oils	Wax content	COI/T.20/Doc. no. 18 or AOCS Ch 8-02 (11)	Gas chromatography	II
Margarine	Fat	IUPAC 2.801	Gravimetry	I
Margarine	Milkfat	CAC/RM 15-1969	Titrimetry	I
Margarine	Sodium chloride	AOAC 971.27 (Codex general method)	Potentiometry	II
Margarine	Vitamin A	AOAC 960.45	Spectrophotometry	II
Margarine	Vitamin D	AOAC 936.14	Bioassay	II
Margarine	Vitamin E	IUPAC 2.411	TLC followed by spectrophotometry or GLC	II
Margarine	Water	CAC/RM 17-1969 (described in the Standard)	Gravimetry	I
Minarine	Fat	IUPAC 2.801	Gravimetry	I
Minarine	Milkfat	CAC/RM 15-1969 (described in the Standard)	Titrimetry	I
Minarine	Sodium chloride	AOAC 971.27 (Codex general method)	Potentiometry	II
Minarine	Vitamin A	AOAC 960.45	Spectrophotometry	II
Minarine	Vitamin D	AOAC 936.14	Bioassay	II

Minarine	Vitamin E	IUPAC 2.411	TLC followed by spectrophotometry or GLC	II
Minarine	Water	CAC/RM 17-1969	Gravimetry	I
Fish and Fishery Products				
Fish and fishery products	Histamine	AOAC 977.13	Fluorimetry	II
Fish and fishery products	Mercury	AOAC 977.15	Flameless atomic absorption spectrophotometry	III
Fish and fishery products: canned products	Drained weight	Described in the Standard	Weighing	I
Fish and fishery products: canned products	Net weight	Described in the Standard	Weighing	I
Boiled Dried Salted Anchovies	Sodium Chloride (chloride expressed as sodium chloride)	AOAC 937.09	Titrimetry	II
Canned shrimps or prawns	Size, determination of	Described in the Standard	Number per 100 g	I
Fish Sauce	total nitrogen	AOAC 940.25	digestion	I
Fish Sauce	amino acid nitrogen	AOAC 920.04 and AOAC 920.03	determining formaldehyde titration method subtracting by ammoniacal nitrogen (magnesium oxide method)	I
Fish Sauce	рН	AOAC 981.12 The pH shall be measured in a sample of fish sauce diluted with water to 1:10 using a pH meter. The dilution of fish sauce is necessary because of the high ionic strength in the undiluted sauce.	electrometry	III
Fish Sauce	sodium chloride	AOAC 976.18	potentiometry	II
Fish Sauce	sodium chloride	AOAC 937.09	titrimetry	IV
Fish Sauce	histamine	AOAC 977.13	Fluorimetry	II
Frozen abalone (covered by glaze)	Net weight	AOAC 963.18	Gravimetry	I

Frozen fish and fishery products	Thawing and cooking procedures	Described in the Standards	Thawing and heating	I
Quick frozen blocks of fish fillet, minced fish flesh and mixtures of fillets and minced fish flesh	Proportion of fish fillet and minced fish	AOAC 988.09	Physical separation	I
Quick frozen blocks of fish fillet, minced fish flesh and mixtures of fillets and minced fish flesh	Net content of frozen fish blocks covered by glaze	Described in the Standard	Gravimetry	I
Quick frozen blocks of fish fillet, minced fish flesh and mixtures of fillets and minced fish flesh	Sodium chloride	AOAC 971.21 (Codex general method)	Potentiometry	II
Quick frozen fish fillets	Net weight of products covered by glaze	Described in the Standard	Water spraying and sieving	I
Quick Frozen Fish sticks (fish fingers) and fish portions - breaded or in batter	Fish content (declaration)	AOAC 996.15 and calculation (described in the standard)	Gravimetry	I
Quick frozen fish sticks (fish fingers) and fish portions - breaded or in batter	Net weight	Described in the Standard	Weighing	I
Quick Frozen Fish Sticks (fish fingers) and Fish Portions-Breaded and in Batter (except for certain fish species with soft flesh)	Proportion of fish fillet and minced fish	WEFTA Method (described in the Stnadard)	Gravimetry	I
Quick frozen fish sticks (fish fingers) and fish portions - breaded or in batter	Sodium chloride	AOAC 971.27 (Codex general method)	Potentiometry	II
Salted Atlantic Herring and Salted Sprat	Water content	AOAC 950.46B	air drying	Ι
Salted Fish of the <i>Gadidae</i> Family	Salt	Described in CODEX STAN 167-1989	Titrimetry (Mohr) Salt determined as chloride expressed as sodium chloride	I

Salt Content	Sampling and method described in the	Gravimetry	Ι
Water content	Standard		
Water phase salt	AOAC 952.08	Calculation	I
1	AOAC 937.09		-
	Described in standard ⁶		
Water activity	NMKL 168, 2001 ISO 21807:2004	Electrometry	III
Salt content	Described in CODEX STAN 167-1989	Titrimetry (Mohr)	
Suit content	Described in CODEA STAIN 107 1707		•
	Water content Water phase salt	Water phase salt AOAC 952.08 AOAC 937.09 Described in standard ⁶ Water activity NMKL 168, 2001 ISO 21807:2004	Water content Standard Water phase salt AOAC 952.08 AOAC 937.09 Described in standard ⁶ Water activity NMKL 168, 2001 ISO 21807:2004 Electrometry

Method Performance Criteria for histamine in smoked fish, smoke-flavoured fish and smoke-dried fish

Provision	ML (mg/100 g)	Minimum applicable range (mg/100 g)	LOD (mg/100 g)	LOQ (mg/100 g)	RSD _R (%)	Recovery	Applicable methods that meet the criteria	Principle
Histamine	10 (average)	8 – 12	1	2	16.0	90 – 107	AOAC 977.13 NMKL 99, 2013 NMKL 196, 2013	Fluorometric HPLC
Histamine	20 (each unit)	16 – 24	2	4	14.4	90 – 107	AOAC 977.13 NMKL 99, 2013 NMKL 196, 2013	Fluorometric HPLC

Foods for Special Dietary Uses

Special foods	Ash	AOAC 942.05	Gravimetry	I
Special foods	Calcium	AOAC 984.27	ICP emission spectrometry	III
Special foods	Calories by calculation	Method described in CAC/VOL IX-Ed.1, Part III	Calculation method	III
Special foods	Carbohydrates	Method described in CAC/VOL IX-Ed.1, Part III	Calculation	III

⁶ % salt × 100 / (% water + % salt)

Special foods	Chloride	AOAC 971.27 (Codex general method)	Potentiometry	II
Special foods	Dietary fibre, total	AOAC 985.29	Gravimetry (enzymatic digestion)	I
Special foods	Fat	CAC/RM 55-1976	Gravimetry (extraction)	I
Special foods	Fat in foods not containing starch, meat or vegetable products	CAC/RM 1-1973, B-2	Gravimetry	I
Special foods	Fill of containers	CAC/RM 46-1972	Weighing	I
Special foods	Folic acid	AOAC 944.12	Microbioassay	II
Special foods	Linoleate (in the form of glycerides)	AOAC 922.06; 969.33; 963.22	Acid hydrolysis, preparation of methyl esters and gas chromatography	II
Special foods	Linoleate (in the form of glycerides)	AOAC 922.06; 979.19	Acid hydrolysis and spectrophotometry	III
Special foods	Loss on drying (milk based)	AOAC 925.23 -ISO 6731 IDF 21:2010	Gravimetry	I
Special foods	Nicotinamide for foods not based on milk	AOAC 961.14	Colorimetry	II
Special foods	Nicotinamide for milk-based foods	AOAC 944.13	Microbioassay	II
Special foods	Pantothenic acid/enriched foods	AOAC 945.74	Microbioassay	II
Special foods	Pantothenic acid/non-enriched foods	The Analyst 89 (1964):1, 3-6, ibid. 232 US Dept Agr., Agr. Handbook 97 (1965)	Microbioassay	IV
Special foods	Phosphorous	AOAC 986.24	Colorimetry (molybdovanadate)	II
Special foods	Protein efficiency ratio (PER)	AOAC 960.48	Rat bioassay	I
Special foods	Protein, crude	Method described in CAC/VOL IX-Ed. 1, Part III	Titrimetry, Kjeldahl digestion	I
Special foods	Riboflavin	AOAC 970.65	Fluorometry	II

Special foodsSodium and potassiumAOAC 984.27ICP emission spectromeSpecial foodsVitamin AAOAC 974.29ColorimetrySpecial foodsVitamin A in foods in which carotenes have been added as a source of vitamin AAOAC 941.15SpectrophotometrySpecial foodsVitamin B_{12} AOAC 952.20MicrobioassaySpecial foodsVitamin B_6 AOAC 961.15MicrobioassaySpecial foodsVitamin CAOAC 967.22MicrofluorometrySpecial foodsVitamin CAOAC 967.21Colorimetry (dichloroin	n II
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	etry III
	IV
	III
Special foods Vitamin C AOAC 967.22 Microfluorometry	II
	II
Special foods Vitamin C AOAC 967.21 Colorimetry (dichloroin	II
	dophenol) III
Special foods Vitamin D AOAC 936.14 Rat bioassay	IV
Special foods Vitamin D (D ₃ , milk based AOAC 992.26 Liquid chromatography infant formula)	П
Special foods Vitamin E AOAC 971.30 Colorimetry	IV
Special foods Vitamin E (milk based infant AOAC 992.03 Liquid chromatography formula)	II
Special foods Sodium and Potassium ISO 8070 IDF 119:2007 Flame atomic absorption spectrometry	n Typ e II
Follow-up formula Dietary fibre, total AOAC 991.43 Gravimetry (enzymatic	digestion) I
follow-up formula	etry II
Follow-up formula Pantothenic acid AOAC 992.07 Microbioassay	II
(Measures total pantothenate (free pantothenic acid + CoA- + ACP-bound) and measured as D-pantothenic acid (or calcium D-pantothenate)	
Follow-up formula Vitamin A AOAC 974.29 Colorimetry	IV

Follow-up formula	Vitamin A (retinol isomers)	AOAC 992.04	HPLC	II
Follow-up formula	Vitamin A (retinol) (above 500 IU/l milk after reconstitution)	AOAC 992.06	HPLC	III
Follow-up formula	Vitamin K	AOAC 999.15	HPLC	II
•		EN 14148:2003 (vitamin K ₁)	with	
		(Measures either aggregated $cis + trans K_1$ or can measure individual cis and trans forms depending on LC column.)	C30 column to separate the cis- and the trans- K vitamins	
Foods with low-sodium content (including salt substitutes)	Iodine	AOAC 925.56	Titrimetry	П
Foods with low-sodium content (including salt substitutes)	Silica (colloidal, calcium silicate)	AOAC 950.85N	Gravimetry	IV
Gluten-free foods	Gluten	Enzyme-Linked Immunoassay R5 Mendez (ELISA) Method	Immunoassay	I
		Eur J Gastroenterol Hepatol 2003; 15: 465-474		
Infant formula	Biotin	EN 15607:2008 (d-biotin)	HPLC	II
		(Measures total D-biotin (free + D-biocytin)		
Infant formula	Calories (by calculation)	Method described in CAC/Vol IX-Ed.1, Part III ⁷	Calculation	I
Infant formula	Calcium	ISO 8070 IDF 119: 2007	Flame atomic absorption spectrophotometry	II
Infant formula	Calcium	AOAC 985.35	Flame atomic absorption spectroscopy	III

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(a) protein 4 kcal per g
(b) carbohydrate 4 kcal per g
(c) fat 9 kcal per g
(d) monosaccharides 3.75 kcal per g

⁷ Section 9. Calories by calculation – Section 9.2 Conversion Factors

⁽e) specific food ingredients See "Energy and Protein Requirements" (FAO Nutrition Meeting Report Series No. 52 or WHO Technical Report Series No. 522)

⁽f) other specific calorie conversion factors maybe used where the formulation of the food and the nutrient content are known and where such specific conversion factors are physiologically more meaningful than the factors listed above

Infant formula	Calcium	AOAC 984.27	ICP emission spectroscopy	III
Infant formula	Chloride	AOAC 986.26	Potentiometry	III
Infant formula	Choline	AOAC 999.14	Enzymatic Colorimetric Method	II
			with limitations on applicability due to choline and ascorbate concentration.	
Infant formula	Copper	AOAC 985.35	Flame atomic absorption spectroscopy	II
Infant formula	Copper	AOAC 984.27	ICP emission spectroscopy	III
Infant formula	Chromium (Section B of STAN 72 only)	EN 14082:2003	Graphite furnace atomic absorption after dry ashing	II
Infant formula	Chromium (Section B of STAN 72 only)	EN 14083:2003	Graphite furnace AAS after pressure digestion	III
Infant formula	Chromium (Section B of STAN 72 only)	AOAC 2006.03	ICP emission spectroscopy	III
Infant formula	Crude protein ⁸	AOAC 991.20 ISO 8968-1/2 IDF 20-1/2: 2001	Titrimetry (Kjeldahl)	I
Infant formula	Fatty acids (including trans fatty acid)	AOAC 996.06	Gas chromatography	II
Infant formula	Fatty acids (including trans fatty acid)	AOCS Ce 1h-05 (09)	Gas chromatography	III

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

⁸ Determination of Crude Protein

Infant formula		AOAC 992.05	Microbioassay	II
	Folic acid	(Measures free folic acid + free, unbound natural folates, aggregated and measured as folic acid)		
		EN 14131:2003		
		(Total folate (free + bound), aggregated and measured as folic acid)		
Infant formula	Folic acid	J AOAC Int. 2000:83; 1141-1148	Optical Biosensor	IV
		(Measures free folic acid + proportion of free, natural folate)	Immunoassay	
Infant formula	Folic acid	J Chromatogr. A., 928, 77-90, 2001	HPLC, incorporating	IV
		(Measures total folates after conversion to, and measurement as 5-Me-H4PteGlu)	immunoaffinity clean-up and conversion to 5-methyltetrahydrofolate	
Infant formula	Iodine (for milk-based formula)	AOAC 992.24	Ion-selective potentiometry	II
Infant formula	Iron ⁹	AOAC 985.35	Flame atomic absorption spectrophotometry	III
Infant formula	Iron	AOAC 984.27	ICP emission spectroscopy	III
Infant formula	Iron	AOAC 999.11 NMKL139:1991	AAS after dry ashing	II
Infant formula	Magnesium	ISO 8070 IDF 119: 2007	Flame atomic absorption spectrophotometry	II
Infant formula	Magnesium	AOAC 985.35	Flame atomic absorption spectroscopy	III
Infant formula	Magnesium	AOAC 984.27	ICP emission spectroscopy	III
Infant formula	Manganese	AOAC 985.35	Flame atomic absorption spectrophotometry	II
Infant formula	Manganese	AOAC 984.27	ICP emission spectroscopy	III
Infant formula	Molybdenum (Section B of STAN 72 only)	EN 14083:2003	Graphite furnace AAS after pressure digestion	II

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⁹ General Codex methods are also available

Infant formula	Melamine	ISO/TS 15495 IDF/RM 230:2010	LC-MS/MS	IV
Infant formula	Molybdenum (Section B of STAN 72 only)	AOAC 2006.03	ICP emission spectroscopy	III
Infant formula	Niacin	AOAC 985.34 (niacin (preformed) and nicotinamide)	Microbioassay and turbidimetry	III
Infant formula	Niacin	prEN 15652:2009	HPLC	Π^{10}
		(Free and bound and phosphorylated forms measured either as aggregate of nicotinic acid + nicotinamide, or as individual forms)		
Infant formula	Phosphorus	AOAC 986.24	Spectrophotometry (molybdovanadate)	II
Infant formula	Phosphorus	AOAC 984.27	ICP emission spectroscopy	III
Infant formula	Riboflavin	AOAC 985.31 ¹¹	Fluorimetry	III
Infant formula	Riboflavin	EN 14152:2003	HPLC	II
		(Measures natural and supplemental forms, free, bound and phosphorylated (FMN and FAD) aggregated and measured as riboflavin.)		
Infant formula	Selenium	AOAC 996.16 or AOAC 996. 17	Continuous hydride generation Flame atomic absorption spectrometry (HGAAS)	III
Infant formula	Selenium	EN 14627:2005	Hydride generation atomic absorption spectrometry (HGAAS)	II
Infant formula	Selenium	AOAC 2006.03	ICP emission spectroscopy	III
Infant formula	Sodium and potassium	AOAC 984.27	ICP emission spectrometry	III
Infant formula	Sodium and potassium	ISO 8070 IDF 119:2007	Flame atomic absorption spectrophotometry	II
Infant formula	Thiamine	AOAC 986.27 ¹²	Fluorimetry	III

when published as EN method

11 Care should be taken in the application of the method due to spectral interference

12 Care should be taken in the application of the method due to spectral interference

Infant formula	Thiamine	EN 14122:2003	HPLC with pre-or post column	II
		(Measures all vitamin B_1 forms (natural and added free, bound and phosphorylated) following extraction and conversion to thiamine)	derivatization to thiochrom	
Infant formula	Total carbohydrates	AOAC 986.25	Determination by difference	I
		AOAC 990.19 or		
	Moisture/Total Solids	AOAC 990.20	Gravimetry	
		ISO 6731 IDF 21:2010	Gravinicary	
	Ash	AOAC 942.05	Gravimetry	
Infant formula	Total fat	AOAC 989.05	Gravimetry (Röse-Gottlieb)	I
		ISO 8381 IDF 123:2008		
Infant formula	Total fat	ISO 8262-1 IDF 124-1: 2005	Gravimetry (Weibull-Berntrop)	I
	for milk-based infant formula			
	(Products not completely soluble in ammonia)			
Infant formula	Total phospholipids	AOCS Ja7b-91	Gas chromatography with suitable extraction and preparation procedures	III
Infant formula	Vitamin A	EN 12823-1:2000 (all-trans-retinol and 13-cis-retinol)	HPLC	III
		Vitamin A (both natural + supplemental ester forms) aggregated and quantified as individual retinol isomers (13 - cis and all-trans)		
Infant formula	Vitamin D	AOAC 992.26	HPLC	III
		D ₃ measured		

Infant formula	Vitamin D	EN 12821:2000	HPLC	II
		(D2 and/or D3 measured as single components. Hydroxylated forms not measured.)		
		NMKL 167: 2000		
Infant formula	Vitamin D	AOAC 995.05	HPLC	III
		D2 and D3 measured		
Infant formula	Vitamin E	AOAC 992.03	HPLC	III
		Measures all rac-vitamin E (both natural + supplemental ester forms) aggregated and quantified as α -congeners		
Infant formula	Vitamin E	EN 12822: 2000	HPLC	II
		(Measures Vitamin E (both natural + supplemental ester forms) aggregated and quantified as individual tocopherol congeners $(\alpha, \Box \Box \beta, \Box \Box \gamma \Box \Box, \delta)$.		
Infant formula	Vitamin B ₆	AOAC 985.32	Microbioassay	III
Infant formula		EN 14166:2008	Microbioassay	III
	Vitamin B ₆	(Aggregates free and bound pyridoxal, pyridoxine and pyridoxamine and measures as pyridoxine)		
Infant formula	Vitamin B ₆	AOAC 2004.07		II
		EN 14164:2008	HPLC	
		(Free and bound phosphorylated forms (pyridoxal, pyridoxine and pyridoxamine) converted and measured as pyridoxine)		
Infant formula	Vitamin B ₆	EN 14663:2005 (includes glycosylated forms)	HPLC	III
		(Free and bound phosphorylated and glycosylated forms measured as the individual forms pyridoxal, pyridoxine and pyridoxamine)		

Infant formula		AOAC 986.23	Turbidimetric Method	II
	Vitamin B ₁₂	(Measures total vitamin B_{12} as cyanocobalamin)		
Infant formula	Zinc	AOAC 985.35	Flame atomic absorption spectroscopy	II
Infant formula	Zinc	AOAC 984.27	ICP emission spectroscopy	III

Methods of analysis for dietary fibre: Guidelines for Use of Nutrition and Health Claims: Table of Conditions for Claims

Standard	Provisions	Method	Principle	Type
General m	ethods that do not measure the lower molecular weight fraction (i.e	e. monomeric units<=9) ⁽²⁾		
All foods	Method applicable for determining dietary fibres that do not include	AOAC 985.29	Enzymatic	Type I
(1)	the lower molecular weight fraction. (4)	AACC Intl 32-05.01 (1991,1999)	gravimetry	
All foods	Method applicable for determining dietary fibres that do not include	AOAC 991.43	Enzymatic	Type I
(1)	the lower molecular weight fraction and also includes determination	AACC Intl 32-07.01 (1999, 1991)	gravimetry	
	for soluble and insoluble dietary fibres (4)	NMKL 129, 2003		
All foods	Method applicable for determining dietary fibres that do not include	AOAC 993.21	gravimetry	Type I
(1)	the lower molecular weight fraction, in foods and food products			
	containing more than 10% dietary fibres and less than 2% starch			
	(e.g. fruits) (4)			
All foods	Method applicable for determining dietary fibres that do not include	AOAC 994.13	Enzymatic GC/	Type I
(1)	the lower molecular weight fraction. Provides sugar residue	AACC Intl 32- 25.01 (1999, 1994)	colorimetry	
	composition of dietary fibre polysaccharides, as well as content of	NMKL 162, 1998	gravimetry	
	Klason lignin (4).			
All foods	Insoluble dietary fibres in food and food products (4)	AOAC 991.42 (Specific for insoluble	Enzymatic	Type I
(1)	•	fibre)	gravimetry	
		AACC Intl 32-20.01 (1999, 1982)		
All foods	Soluble dietary fibres in food and food products (4)	AOAC 993.19 (Specific for soluble	Enzymatic	Type I
(1)		fibre)	gravimetry	

General m	ethods that measure both the higher (monomeric units > 9) and the	e lower molecular weight fraction (mo	nomeric units <=9) (2	2)
All foods	g : (: : : : : : : : : : : : : : : : :	AOAC 2001.03	Enzymatic	Type I
(1)	Method applicable for determining the content of dietary fibres of	AACC Intl 32-41.01 (2002)	gravimetry and	
	higher and lower molecular weight, in food where resistant starches		Liquid	
	are not present		chromatography	
All foods	Method applicable for determining the content of dietary fibres of	AOAC 2009.01	Enzymatic-	Type I
(1)	higher and lower molecular weight. The method is applicable in	AACC Intl 32-45.01 (2009)	Gravimetry	
	food that may, or may not, contain resistant starches.		High Pressure	
			Liquid	
			Chromatography	
Methods t	hat measure individual specific components (monomeric units: the	whole range for each type of component	ents is covered) ⁽²⁾	
All foods	$(1\rightarrow 3)(1\rightarrow 4)$ Beta-D-Glucans	AOAC 995.16	Enzymatic	Type II
(1)		AACC Intl 32-23.01 (1999, 1995)		
All foods	Fructans (oligofructoses, inulin, hydrolyzed inulin, polyfructoses,	AOAC 997.08	Enzymatic &	Type II
(1)	fructooligosaccharides)	AACC Intl 32-31.01 (2001)	HPAEC-PAD	
	(applicable to added fructans)			
All foods	Fructans (oligofructoses, inulin, hydrolyzed inulin, polyfructoses,	AOAC 999.03	Enzymatic &	Type III
(1)	fructooligosaccharides)	AACC Intl 32-32.01 (2001)	colorimetric	
	(not applicable highly depolymerised fructans)			
All foods	Polydextrose	AOAC 2000.11	HPAEC-PAD	Type II
(1)		AACC Intl 32-28.01 (2001)		
All foods	Trans-galacto-oligo saccharides	AOAC 2001.02	HPAEC-PAD	Type II
(1)		AACC Intl 32-33.01 (2001)		
All foods	Resistant starch (Recommended for RS3)	AOAC 2002.02	Enzymatic	Type II
(1)		AACC Intl 32-40.01 (2002)		-

Other met	thods ⁽²⁾ that have not been subjected to interlaboratory evaluation	under AOAC international guidelines		
Yeast	Insoluble glucans and mannans of yeast cell wall (for yeast cell	Eurasyp (European association for	Chemical &	Type IV
cell wall	wall only)	specialty yeast product) - LM	HPAEC-PAD	
		Bonanno. Biospringer- 2004 – online		
		version:		
		http://www.eurasyp.org/public.techniq		
		ue.home.screen.		
All foods	Fructo-oligosaccharides (monomeric units<5)	Ouarné et al. 1999 in Complex	HPAEC-PAD	Type IV
		Carbohydrates in Foods. Edited by S.		
		Sungsoo, L. Prosky & M. Dreher.		
		Marcel Dekker Inc, New York		
All foods	Non-starch polysaccharides (NSP) (3)	Englyst H.N, Quigley M.E., Hudson	Gas-Liquid	Type IV
		G. (1994) Determination of dietary	Chromatography	
		fibre as non-starch polysaccharides		
		with gas-liquid chromatographic high		
		performance liquid chromatographic		
		or spectrophotometric measurement of		
		constituent sugars - Analyst 119,		
		1497-1509		

⁽¹⁾ Users should consult the description of each method for the food matrices that were the subject of interlaboratory study in the Official methods of Analysis of AOAC International.

⁽²⁾ Two issues are left for national authorities: to include monomeric units 3-9 and which isolated or synthetic compounds have physiological benefit. (Refer to the Guidelines for Nutrition Labelling (CAC/GL 2-1985), as revised in 2009.

⁽³⁾ Quantitation lost for resistant starch. Refer to specific methods.

⁽⁴⁾ Quantitation lost for inulin, resistant starch, polydextrose and resistant maltodextrins. Refer to specific methods.

Fruit Juices and Nectars				
Commodity	Provisions	Method	Principle	Type
Fruit Juices and Nectars	Ascorbic acid-L (additives)	IFU Method No 17a (1995)	HPLC	II
Fruit Juices and Nectars	Ascorbic acid-L (additives)	ISO 6557-1: 1986	Fluorescence spectrometry	IV
Fruit Juices and Nectars	Ascorbic acid-L (additives)	AOAC 967.21 IFU Method No 17 ISO 6557-2: 1984	Indophenol method	III
Fruit Juices and Nectars	Carbon dioxide (additives and processing aids)	IFU Method No 42 (1976)	Titrimetry (back-titration after precipitation)	IV
Fruit Juices and Nectars	Cellobiose	IFU Recommendation No.4 October 2000	Capillary gas chromatography	IV
Fruit Juices and Nectars	Citric acid ¹³ (additives)	AOAC 986.13	HPLC	II
Fruit Juices and Nectars	Citric acid ⁵ (additives)	EN 1137: 1994 IFU Method No 22 (1985)	Enzymatic determination	III
Fruit Juices and Nectars	Glucose and fructose (permitted ingredients)	EN 12630 IFU Method No 67 (1996) NMKL 148 (1993)	HPLC	III
Fruit Juices and Nectars	Glucose-D and fructose-D (permitted ingredients)	EN 1140 IFU Method No 55 (1985)	Enzymatic determination	II
Fruit Juices and Nectars	HFCS & HIS in apple juice (permitted ingredients)	Determination of HFCS & HIS by Capillary GC method JAOAC 84, 486 (2001)	CAP GC Method	IV
Fruit Juices and Nectars	Malic acid (additives)	AOAC 993.05	Enzymatic determination and HPLC	III
Fruit Juices and Nectars	Malic acid-D	EN 12138 IFU Method No 64 (1995)	Enzymatic determination	II
Fruit Juices and Nectars	Malic acid-D in apple juice	AOAC 995.06	HPLC	II
Fruit Juices and Nectars	Malic acid-L	EN 1138 (1994) IFU Method No 21 (1985)	Enzymatic determination	II

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¹³ All juices except citrus based juices

Fruit Juices and Nectars	Pectin (additives)	IFU Method No 26 (1964/1996)	Precipitation/photometry	I
Fruit Juices and Nectars	Benzoic acid and its salts; sorbic acid and its salts	IFU Method No 63 (1995) NMKL 124 (1997)	HPLC	II
Fruit Juices and Nectars	Benzoic acid and its salts	ISO 5518: 1978 <u>2007</u> ISO 6560: 1983	Spectrometry	III
Fruit Juices and Nectars	Preservatives in fruit juices (sorbic acid and its salts)	ISO 5519: 1978 <u>2008</u>	Spectrometry	III
Fruit Juices and Nectars	Quinic, malic & citric acid in cranberry juice cocktail and apple juice (permitted ingredients and additives)	Determination of quinic, malic and citric acid in cranberry juice cocktail and apple juice AOAC 986.13	HPLC	III
Fruit Juices and Nectars	Saccharin	NMKL 122 (1997)	Liquid chromatography	II
Fruit Juices and Nectars	Soluble solids	AOAC 983.17 EN 12143 (1996) IFU Method No 8 (1991) ISO 2173: 2003	Indirect by refractometry	I
Fruit Juices and Nectars	Sucrose (permitted ingredients)	EN 12146 (1996) IFU Method No 56 (1985/1998)	Enzymatic determination	III
Fruit Juices and Nectars	Sucrose (permitted ingredients)	EN 12630 IFU Method No 67 (1996) NMKL 148 (1993)	HPLC	II
Fruit Juices and Nectars	Sulphur dioxide (additives)	Optimized Monier Williams AOAC 990.28 IFU method No. 7A (2000) NMKL 132 (1989)	Titrimetry after distillation	II
Fruit Juices and Nectars	Sulphur dioxide (additives)	NMKL 135 (1990)	Enzymatic determination	III
Fruit Juices and Nectars	Sulphur dioxide (additives)	ISO 5522:1981 ISO 5523:1981	Titrimetry after distillation	III
Fruit Juices and Nectars	Tartaric acid in grape juice (additives)	EN 12137 (1997) IFU Method No 65 (1995)	HPLC	II
Fruit Juices and Nectars	Total nitrogen	EN 12135 (1997) IFU Method No 28 (1991)	Digestion/titration	I

Fruit Juices and Nectars	Sections 3.2 Quality Criteria	Determination of acetic acid	Enzymatic determination	II
	and 3.3 Authenticity ¹⁴	EN 12632; IFU Method No 66 (1996)		
Fruit Juices and Nectars		Determination of alcohol (ethanol)	Enzymatic determination	II
		IFU Method No 52 (1996)		
Fruit Juices and Nectars		Detection of anthocyanins	HPLC	I
Trait varies and rectars		IFU Method No 71 (1998)		
Fruit Juices and Nectars		Determination of ash in fruit products	Gravimetry	I
Trait surces and recears		AOAC 940.26 ;EN 1135 (1994);	·	
		IFU Method No 9 (1989)		
Fruit Juices and Nectars		Detection of beet sugar in fruit juices	Deuterium NMR	II
Truit Juices and Nectars		AOAC 995.17		
Fruit Juices and Nectars		Determination of benzoic acid as a marker	HPLC	III
		in orange juice		
		AOAC 994.11		
Fruit Juices and Nectars		Determination of C ¹³ /C ¹² ratio of ethanol	Stable isotope mass spectrometry	II
Truit Juices and rectars		derived from fruit juices	1 1	
		JAOAC 79, No. 1, 1996, 62-72		
Fruit Juices and Nectars		Determination of carbon stable isotope ratio	Stable isotope mass spectrometry	II
Truit Juices and rectars		of apple juice	1 1	
		AOAC 981.09 - JAOAC 64, 85 (1981)		
Fruit Juices and Nectars		Determination of carbon stable isotope ratio	Stable isotope mass spectrometry	II
Truit Juices and Nectars		of orange juice	2	
		AOAC 982.21		
Fruit Juices and Nectars		Determination of carotenoid,	Spectrophotometry	Ţ
Fruit Juices and Nectars		total/individual groups	specializational	•
		EN 12136 (1997); IFU Method No 59		
		(1991)		

Fruit juices and nectars should be subject to testing for authenticity, composition, and quality where applicable and where required. The analytical methods used should be those found in Section 9, Methods of Analysis and Sampling.

The verification of a sample's authenticity / quality can be assessed by comparison of data for the sample, generated using appropriate methods included in the standard, with that produced for fruit of the same type and from the same region, allowing for natural variations, seasonal changes and for variations occurring due to processing.

^{14 3.4} Verification of Composition, Quality and Authenticity

Fruit Juices and Nectars	Determination of centrifugable pulp Centrifugation/% value EN 12134 (1997) - IFU Method No 60 (1991)	I
Fruit Juices and Nectars	Determination of chloride (expressed as sodium chloride) EN12133 (1997) IFU Method No 37 (1991)	III
Fruit Juices and Nectars	Determination of chloride in vegetable juice Titration AOAC 971.27 (Codex general method) ISO 3634:1979 (confirmed 2013)	II
Fruit Juices and Nectars	Determination of essential oils (Scott (Scott) distillation, titration titration AOAC 968.20 - IFU 45b*	I
Fruit Juices and Nectars	Determination of essential oils (in citrus fruit) (volume determination)* ISO 1955:1982 (confirmed 2010) Distillation and direct reading of the volume determination	e I
Fruit Juices and Nectars	Determination of fermentability Microbiological method IFU Method No 18 (1974)	Ι
Fruit Juices and Nectars	Determination of formol number Potentiometric titration EN 1133 (1994) IFU Method No 30 (1984)	I
Fruit Juices and Nectars	Determination of free amino acids EN 12742 (xxxx) IFU Method No 57 (1989)	II
Fruit Juices and Nectars	Determination of fumaric acid HPLC IFU Method No 72 (1998)	II
Fruit Juices and Nectars	Determination of glucose fructose and saccharose EN 12630 - IFU Method No 67 (1996) NMKL 148 (1993)	II
Fruit Juices and Nectars	Determination of gluconic acid Enzymatic determination IFU Method No 76 (2001)	II
Fruit Juices and Nectars	Determination of glycerol Enzymatic determination IFU Method No 77 (2001)	II
Fruit Juices and Nectars	Determination of hesperidin and naringin HPLC EN 12148 (1996) - IFU Method No 58 (1991)	II

Fruit Juices and Nectars	Determination of hydroxymethylfurfural HPLC IFU Method No 69 (1996)	II
Fruit Juices and Nectars	Determination of hydroxymethylfurfural Spectrometry ISO 7466:1986 (confirmed 2011)	III
Fruit Juices and Nectars	Determination of isocitric acid-D Enzymatic determination IFU Method No 54 (1984)	II
Fruit Juices and Nectars	Determination of Lactic acid- D and L Enzymatic determination EN 12631 (1999) IFU Method No 53 (1983/1996)	П
Fruit Juices and Nectars	Determination of L-malic/total malic acid Enzymatic determination and H ratio in apple juice AOAC 993.05	PLC II
Fruit Juices and Nectars	Determination of naringin and HPLC neohesperidin in orange juice AOAC 999.05	III
Fruit Juices and Nectars	Determination of pH-value Potentiometry NMKL 179:2005 EN 1132 (1994);IFU Method No 11	II
Fruit Juices and Nectars	(1989);ISO 1842: 1991 (confirmed 2012) Determination of phosphorus/phosphate EN 1136 (1994) IFU Method No 50 (1983)	IV II
Fruit Juices and Nectars	Determination of proline by photometry — Photometry non-specific determination EN 1141 (1994); IFU Method No 49 (1983)	I
Fruit Juices and Nectars	Determination of relative density Pycnometry EN 1131 (1993); IFU Method No 1 (1989) & IFU Method No General sheet (1971)	II
Fruit Juices and Nectars	Determination of Relative density Densitometry IFU Method No 1A	III
Fruit Juices and Nectars	Determination of sodium, potassium, Atomic Absorption Spectroscop calcium, magnesium in fruit juices EN 1134 (1994); IFU Method No 33 (1984)	py II
Fruit Juices and Nectars	Determination of sorbitol-D Enzymatic determination IFU Method No 62 (1995)	II

Fruit Juices and Nectars	*	Stable isotope mass spectrometry	II
	in the pulp of fruit juices		
	ENV 13070 (1998)		
	Analytica Chimica Acta 340 (1997)		
Fruit Juices and Nectars	Determination of stable carbon isotope ratio	Stable isotope mass spectrometry	II
	of sugars from fruit juices		
	ENV 12140		
	Analytica Chimica Acta.271 (1993)		
Fruit Juices and Nectars	Determination of stable hydrogen isotope	Stable isotope mass spectrometry	II
	ratio of water from fruit juices		
	ENV 12142 (1997)		
Fruit Juices and Nectars	Determination of stable oxygen isotope ratio	Stable isotope mass spectrometry	II
	in fruit juice water		
	ENV 12141(1997)	G 1	
Fruit Juices and Nectars	Detection of starch	Colorimetric	1
	AOAC 925.38 (1925)		
	IFU Method No 73 (2000)	O	т .
Fruit Juices and Nectars	Determination of sugar beet derived syrups in frozen concentrated orange juice δ^{18} O	Oxygen isotope ratio analysis	1
	Measurements in Water		
	AOAC 992.09		
	Determination of titrable acids, total	Titrimetry	Ť
Fruit Juices and Nectars	EN 12147 (1995)	Turmeny	1
	IFU Method No Method No 3, (1968)		
	ISO 750:1998		
Fruit Juices and Nectars	Determination of total dry matter (vacuum-	Gravimetric determination	Ţ
Fruit Juices and Nectars	oven drying at 70°C)*	Gravimente acterimitation	•
	EN 12145 (1996)		
	IFU Method No 61 (1991)		
Fruit Juices and Nectars	Determination of total solids (Microwave	Gravimetric determination	I
Truit Juices and Nectars	oven drying)* AOAC 985.26		
Fruit Juices and Nectars	Determination of Vitamin C (dehydro-	Microfluorometry	III
	ascorbic acid and ascorbic acid)	-	
	AOAC 967.22		

* Because there is no numerical value in the Standard duplicate Type I methods have been included which may lead to different results.

Milk and Milk Products				
Milk products	Iron	NMKL 139 (1991) AOAC 999.11	Atomic absorption spectrophotometry	II
		(Codex general method)		
Milk products	Iron	NMKL 161 (1998) / AOAC 999.10	Atomic absorption spectrophotometry	III
Milk products	Iron	AOAC 984.27	Inductively Coupled Plasma optical emission spectrophotometry	III
Milk products	Iron	ISO 6732 IDF 103:2010	Photometry (bathophenanthroline)	IV
Milk and Milk Products	Melamine	ISO/TS 15495 IDF/RM 230:2010	LC-MS/MS	IV
Milk products (products not completely soluble in ammonia)	Milk fat	ISO 8262-3 IDF 124-3:2005	Gravimetry (Weibull-Berntrop)	I
Blend of evaporated skimmed milk and vegetable fat	Total fat	ISO 1737 IDF 13:2008	Gravimetry (Röse-Gottlieb)	I
Blend of evaporated skimmed milk and vegetable fat	Milk solids-not-fat ¹⁵ (MSNF)	ISO 6731 IDF 21:2010 and ISO 1737 IDF 13:2008	Calculation from total solids content and fat content Gravimetry (Röse-Gottlieb)	I
Blend of evaporated skimmed milk and vegetable fat	Milk protein in MSNF ¹⁵	ISO 8968-1/2 IDF 20-1/2:2001/ AOAC 991.20	Titrimetry (Kjeldahl)	IV
Reduced fat blend of evaporated skimmed milk and vegetable fat	Total fat	ISO 1737 IDF 13:2008	Gravimetry (Röse-Gottlieb)	I

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¹⁵ Milk total solids and Milk solids-not-fat (MSNF) content include water of crystallization of lactose

Reduced fat blend of evaporated skimmed milk and vegetable fat	Milk solids-not-fat (MSNF)Hiba! A könyvjelző nem létezik. 45	ISO 6731 IDF 21:2010 and ISO 1737 IDF 13:2008	Calculation from total solids content and fat content Gravimetry (Röse-Gottlieb)	I
Reduced fat blend of Evaporated skimmed milk and vegetable fat	Milk protein in MSNFHiba! A könyvjelző nem létezik. 15	ISO 8968-1/2 IDF 20-1/2:2001/ AOAC 991.20	Titrimetry (Kjeldahl)	IV
Blend of skimmed milk and vegetable fat in powdered form	Total fat	ISO 1736 IDF 9:2008	Gravimetry (Röse-Gottlieb)	Ι
Blend of skimmed milk and vegetable fat in powdered form	Water ¹⁶	ISO 5537 IDF 26:2004	Gravimetry, drying at 87 °C	I
Blend of skimmed milk and vegetable fat in powdered form	Milk protein in MSNFHiba! A könyvjelző nem létezik. 15	ISO 8968-1/2 IDF 20-1/2:2001/ AOAC 991.20	Titrimetry (Kjeldahl)	IV
Reduced fat blend of skimmed milk powder and vegetable fat in powdered form	Total fat	ISO 1736 IDF 9:2008	Gravimetry (Röse-Gottlieb)	I
Reduced fat blend of skimmed milk powder and vegetable fat in powdered form	Water Miba! A könyvjelző nem létezik.	ISO 5537 IDF 26:2004	Gravimetry, drying at 87 °C	I
Reduced fat blend of skimmed milk powder and vegetable fat in powdered form	Milk protein in MSNF <u>Hiba!</u> <u>A könyvjelző nem létezik.</u> ¹⁵	ISO 8968-1/2 IDF 20-1/2:2001/ AOAC 991.20	Titrimetry (Kjeldahl)	IV
Blend of sweetened condensed skimmed milk and vegetable fat	Total fat	ISO 1737 IDF 13:2008	Gravimetry (Röse-Gottlieb)	I
Blend of sweetened condensed skimmed milk and vegetable fat	Sucrose	ISO 2911 IDF 35:2004	Polarimetry	IV
Blend of sweetened condensed skimmed milk and vegetable fat	Milk solids-not-fat (MSNF)Hiba! A könyvjelző nem létezik. 45	ISO 6734 IDF 15:2010	Calculation from total solids content, fat content and sugar content	IV
Blend of sweetened condensed skimmed milk and vegetable fat	Milk protein in MSNFHiba! A könyvjelző nem létezik. 15	ISO 8968-1/2 IDF 20-1/2:2001/ AOAC 991.20	Titrimetry (Kjeldahl)	IV
Reduced fat blend of sweetened condensed skimmed milk and vegetable fat	Total fat	ISO 1737 IDF 13:2008	Gravimetry (Röse-Gottlieb)	I

¹⁶ Water content excluding the crystallized water bound to lactose (generally known as "moisture content")

Reduced fat blend of sweetened condensed skimmed milk and vegetable fat	Milk solids-not-fat (MSNF) <u>Hiba! A könyvjelző</u> nem létezik. ¹⁵	ISO 6734 IDF 15:2010	Calculation from total solids content and sugar content	IV
Reduced fat blend of sweetened condensed skimmed milk and vegetable fat	Milk protein in MSNFHiba! A könyvjelző nem létezik. A könyvjelző nem létezik.	ISO 8968-1/2 IDF 20-1/2:2001/ AOAC 991.20	Titrimetry (Kjeldahl)	IV
Butter	Copper	ISO 5738 IDF 76:2004 AOAC 960.40	Photometry, diethyldithiocarbamate	II
Butter	Lead	AOAC 972.25 (Codex general method)	Atomic absorption spectrophotometry	II
Butter	Milk solids-not-fat (MSNF)	ISO 3727-2 IDF 80-2:2001	Gravimetry	I
Butter	Milkfat	ISO 17189 IDF 194:2003	Gravimetry	I
			Direct determination of fat using solvent extraction	
Butter	Milk fat purity	ISO 17678 IDF 202:2010	Calculation from determination of triglycerides by gas chromatography	I
Butter	Salt	ISO 1738 IDF 12:2004 / AOAC 960.29	Titrimetry (Mohr: determination of chloride, expressed as sodium chloride)	III
Butter	Salt	ISO 15648 IDF 179:2004	Potentiometry (determination of chloride, expressed as sodium chloride)	II
Butter	Vegetable fat (sterols)	ISO 12078 IDF 159:2006	Gas chromatography	II
Butter	Vegetable fat (sterols)	ISO 18252 IDF 200:2006	Gas chromatography	III
Butter	Water 1616	ISO 37271 IDF 80:2001	Gravimetry	I
Cheese	Citric acid	ISO/TS 2963 IDF/RM 34:2006	Enzymatic method	IV
Cheese	Citric acid	AOAC 976.15	Photometry	II
Cheese	Milkfat	ISO 1735 IDF 5:2004	Gravimetry (Schmid-Bondzynski-Ratslaff)	I

Cheese	Moisture	ISO 5534 IDF 4:2004	Gravimetry, drying at 102 °C	I
Cheese (and cheese rind)	Natamycin	ISO 9233-1 IDF 140-1:2007	Molecular absorption spectrophotometry	III
		ISO 9233-2 IDF 140-2:2007	HPLC	II
Cheese	Sodium chloride	ISO 5943 IDF 88:2006	Potentiometry (determination of chloride, expressed as sodium chloride)	П
Cheeses, individual	Dry matter (Total solids)	ISO 5534/IDF 4: 2004	Gravimetry, drying at 102°C	I
Cheeses, individual	Milk fat in dry matter	ISO 1735 IDF 5:2004	Gravimetry (Schmid-Bondzynski- Ratzlaff)	I
Cheeses, individual	Dry matter (Total solids)	ISO 5534 IDF 4: 2004	Gravimetry, drying at 102°C	I
Cheeses in brine	Milk fat in dry matter (FDM)	ISO 1735 IDF 5:2004	Gravimetry (Schmid-Bondzynski- Ratzlaff)	I
Cottage cheese	Fat-free dry matter	ISO 5534 IDF 4:2004 and ISO 1735 IDF 5:2004	Calculation from dry matter content and fat content Gravimetry, drying at 102 °C Gravimetry (Schmid-Bondzynski- Ratzlaff)	I
Cottage cheese	Milk fat	ISO 1735 IDF 5:2004 ISO 8262-3 IDF 124-3:2005	Gravimetry (Schmid-Bondzynski-Ratzlaff) (for samples containing lactose up to 5%) Gravimetry (Weibull-Berntrop) (for samples containing lactose over 5%)	I
Cottage cheese	Milk fat in dry matter	ISO 8262-3 IDF 124-3:2005	Gravimetry (Weibull-Berntrop)	I
Cheese, Unripened Including Fresh Cheese	Protein	ISO 8968-1/2 IDF 20-1/2:2001/ AOAC 991.20 and 991.23	Titrimetry, Kjeldahl	I
Cream and Prepared Creams	Milk protein	ISO 8968-1 <u>/</u> 2 IDF 20-1/2:2001/ AOAC 991.20	Titrimetry (Kjeldahl)	I
Cream	Milkfat	ISO 2450 IDF 16:2008	Gravimetry (Röse-Gottlieb)	I
Cream	Solids	ISO 6731 IDF 21:2010	Gravimetry (drying at 102°C)	I

Creams Lowered in Milkfat Conte	ent Milkfat	ISO 2450 IDF 16:2008 / AOAC 995.19	Gravimetry (Röse-Gottlieb)	I
Creams, Whipped Creams Fermented Creams	and Milk solids-not-fat (MSNF) 1515	ISO 3727-2 IDF 80-2:2001 AOAC 920.116	Gravimetry	I
Cream cheese	Dry matter	ISO 5534 IDF 4:2004	Gravimetry drying at 102 °C (forced air oven)	I
Cream cheese	Moisture on fat free basis	ISO 5534 IDF 4:2004 ISO 1735 IDF 5:2004	Calculation from fat content and moisture content Gravimetry drying at 102°C (forced air oven) Gravimetry (Schmid-Bondzynski-Ratzlaff)	I
Dairy fat spreads	Milk fat purity	ISO 17678 IDF 202:2010	Calculation from determination of triglycerides by gas chromatography	I
Dairy fat spreads	Total fat	ISO 17189 IDF 194:2003	Gravimetry Direct determination of fat using solvent extraction	I
Dairy fat spreads	Vegetable fat (sterols)	ISO 12078 IDF 159:2006	Gas chromatography	II
Dairy fat spreads	Vegetable fat (sterols)	ISO 18252 IDF 200:2006	Gas chromatography	III
Edible casein products	Acids, free	ISO 5547 IDF 91:2008	Titrimetry (aqueous extract)	IV
Edible casein products	Ash (including P ₂ O ₅)	ISO 5545 IDF 90:2008 or ¹⁷ ISO 5544 IDF 89:2008	Gravimetry (ashing at 825 °C)	I
Edible casein products	Copper	AOAC 985.35	Atomic absorption spectrophotometry	II
Edible casein products	Copper	ISO 5738 IDF 76:2004	Colorimetry (diethyldiethiocarbamate)	III
Edible casein products	Lactose	ISO 5548 IDF 106:2004	Photometry (phenol and H ₂ SO ₄)	IV

¹⁷ refer to scope of methods

Edible casein products	Lead	NMKL 139 (1991)	Atomic absorption spectrophotometry	II
		(Codex general method) AOAC 999.11		
Edible casein products	Lead	NMKL 161 (1998) /	Atomic absorption spectrophotometry	III
r		AOAC 999.10		
Edible casein products	Lead	AOAC 972.25 (Codex general method)	Atomic absorption spectrophotometry	III
Edible casein products	Lead	AOAC 982.23 (Codex general method)	Anodic stripping voltanmetry	III
Edible casein products	Lead	ISO/TS 6733 IDF/RM 133: 2006	Spectrophotometry (1,5-diphenylthiocarbazone)	IV
Edible casein products	Milkfat	ISO 5543 IDF 127: 2004	Gravimetry (Schmid-Bondzynski-Ratslaff)	I
Edible casein products	рН	ISO 5546 IDF 115:2010	Electrometry	IV
Edible casein products	Protein (total N x 6.38 in dry matter)	IDF 92:1979 / ISO 5549:1978	Titrimetry, Kjeldahl digestion	IV
Edible casein products	Sediment (scorched particles)	ISO 5739 IDF 107:2003	Visual comparison with standard disks, after filtration	IV
Edible casein products	Water Mater	ISO 5550 IDF 78:2006	Gravimetry (drying at 102 °C)	I
Emmental	Calcium >= 800mg/100g	ISO 8070 IDF 119:2007	Flame atomic absorption	IV
Evaporated milks	Milk fat	ISO 1737 IDF 13:2008	Gravimetry (Röse-Gottlieb)	I
Evaporated milks	Protein	ISO 8968-1/2 IDF 20-1/2:2001 AOAC 945.48H / AOAC 991.20	Titrimetry (Kjeldahl)	I
Evaporated milks	Solids, total	ISO 6731 IDF 21:2010	Gravimetry (drying at 102°C)	I
Fermented milks	Colony-forming units of yeasts and/or moulds	ISO 6611 IDF 94:2004	Colony-count at 25 °C	IV
Fermented milks	Dry matter (total solids)	ISO 13580 IDF 151:2005	Gravimetry (drying at 102 °C)	I
Fermented milks	total acidity expressed as percentage of lactic acid	ISO/TS 11869 IDF/RM 150:2012	Potentiometry, titration to pH 8.30	I
Fermented milks	Lactobacillus acidophilus	ISO 20128 IDF 192:2006	Colony count at 37 °C	I

Fermented milks -	Lactobacillus delbrueckii	ISO 7889 IDF 117:2003	Colony count at 37°C	I
Yoghurt and yoghurt products	subsp bulgaricus & Streptococcus thermophilus			
Fermented milks - Yoghurt and yoghurt products	Lactobacillus delbrueckii subsp bulgaricus & Streptococcus thermophilus	ISO 9232 IDF 146:2003	Test for strain identification	I
Fermented milks	Microorganisms constituting the starter culture	ISO 27205 IDF 149:2010_(Annex A)	Colony count at 25 °C, 30 °C, 37 °C and 45 °C according to the starter organism in question	IV
Fermented milks	Milk fat	ISO 1211 IDF 1:2010 / AOAC 989.05	Gravimetry (Röse-Gottlieb)	I
Fermented milks	Protein	ISO 8968-1/2 IDF 20-1/2:2001/ AOAC 991.20	Titrimetry (Kjeldahl)	I
Milk powders and cream powders	Acidity, titratable	ISO 6091 IDF 86:2010	Titrimetry, titration to pH 8.4	I
Milk powders and cream powders	Milk fat	ISO 1736 IDF 9:2008	Gravimetry (Röse-Gottlieb)	I
Milk powders and cream powders	Protein (in MSNF ¹⁸)	ISO 8968-1/2 IDF 20-1/2:2001 / AOAC 991.20	C Titrimetry (Kjeldahl digestion)	I
Milk powders and cream powders	Scorched particles	ISO 5739 IDF 107:2003	Visual comparison with standard disks, after filtration	IV
Milk powders and cream powders	Solubility Index	ISO 8156 IDF 129:2005	Centrifugation	I
Milk powders and cream powders	Water Mater	ISO 5537 IDF 26:2004 ¹⁹	Gravimetry (drying at 87°C)	I
Milk fat products	Antioxidants (phenolic)	IDF-165:1993	Reversed phase gradient liquid chromatography	II
Milk fat Products	Copper	ISO 5738 IDF 76:2004 AOAC 960.40	Photometry, diethyldithiocarbamate	II
Milk fat products	Fatty acids, free (expressed as oleic acid)	ISO 1740 IDF 6:2004	Titrimetry	I
Milk fat products	Milk fat purity	ISO 17678 IDF 202:2010	Calculation from determination of triglycerides by gas chromatography	I
Milk fat Products	Peroxide value (expressed as meq. of oxygen/kg fat)	ISO 3976 IDF 74:2006	Photometry	I

¹⁸ The method has only been validated for milk powders, not for cream powders

Milkfat products (anhydrous milkfat) Peroxide value		AOAC 965.33	Titrimetry	I
Milk fat products	Vegetable fat (sterols)	ISO 12078 IDF 159:2006	Gas chromatography	II
		ISO 18252 IDF 200:2006	Gas chromatography	III
Milk fat products	Water	ISO 5536 IDF 23:2009	Titrimetry (Karl Fischer)	II
Milk fat products (anhydrous milk fat)	Peroxide value	ISO 3976 IDF 74:2006	Photometry	I
Milkfat products (anhydrous milkfat)	Peroxide value	AOAC 965.33	Titrimetry	I
Milk Products obtained from Fermented Milks Heat-Treated after Fermentation	Protein	ISO 8968-1/2 IDF 20-1/2:2001 / AOAC 991.20	Titrimetry (Kjeldahl)	I
Mozzarella	Milkfat in dry matter – with high moisture	ISO 1735 IDF 5:2004	Gravimetry after solvent extraction	
Mozzarella	Milkfat in dry matter – with low moisture	ISO 1735 IDF 5:2004	Gravimetry after solvent extraction	I
Sweetened condensed milk	Milkfat	ISO 1737 IDF 13:2008	Gravimetry (Röse-Gottlieb)	I
Sweetened Condensed Milks	Protein	ISO 8968-1/2 IDF 20-1/2:2001 / AOAC 945.48H / AOAC 991.20	Titrimetry (Kjeldahl)	I
Sweetened Condensed Milks	Solids	ISO 6734 IDF 15:2010	Gravimetry, drying at 102 °C	I
Whey cheeses by coagulation	Milk fat	ISO 1735 IDF 5:2004	Gravimetry (Schmid-Bondzynski-Ratzlaff)	I
Whey cheeses by coagulation	Milk fat in dry matter	ISO 1735 IDF 5: 2004	Calculation from fat content and dry matter content	I
		and	Gravimetry (Schmid-Bondzynski-Ratzlaff)	
		ISO 5534 IDF 4:2004	Gravimetry, drying at 102°C	
Whey cheeses by concentration	Milk fat	ISO 1854 IDF 59:2008	Gravimetry (Röse Gottlieb)	I

	Milk fat in dry matter	ISO 1854 IDF 59:2008_and ISO 2920 IDF 58:2004	Calculation from fat content and dry matter content Gravimetry (Röse Gottlieb) Gravimetry, drying at 88 °C	1
Whey powders	Ash	ISO 5545 IDF 90:2008	Gravimetry (ashing at 825°C)	IV
Whey powders	Copper	AOAC 985.35	Atomic absorption spectrophotometry	II
Whey powders	Copper	ISO 5738 IDF 76:2004	Photometry (diethyldithiocarbamate)	III
Whey Powders Lactose		ISO 5765-1/2 IDF 79-1/2:2002	Enzymatic method: Part 1 - Glucose moiety or Part 2 - Galactose moiety	II
Whey powders	Lead	AOAC 972.25 (Codex general method)	Atomic absorption spectrophotometry	II
Whey powders	Milkfat	ISO 1736 IDF 9:2008	Gravimetry (Röse-Gottlieb)	I
Whey powders Milk protein (total N x 6.38)		ISO 8968-1/2 IDF 20-1/2:2001 / AOAC 991.20	Titrimetry (Kjeldahl)	I
Whey powders	Moisture, "Free"	ISO 2920 IDF 58:2004	Gravimetry (drying at 88 °C \pm 2°C)	IV
Whey powders	Protein (total N x 6.38)	IDF 92:1979 / ISO 5549:1978	Titrimetry, Kjeldahl digestion	IV
Whey powders	Water ²⁰	ISO 5537 IDF 26:2004	Gravimetry (drying at 87 °C)	I
Natural Mineral Waters				
Natural mineral waters	Calcium	ISO 7980:1986 (confirmed 1995 <u>2010</u>)	Atomic absorption spectrophotometry	III
Natural mineral waters	Chloride	Examination of Water Pollution Control. WHO Pergamon Press (1982) Vol. 2, pp. 205-208		II
Natural mineral waters	Chloride	AOAC 973.51	Titrimetry (Mercuric nitrate)	III
Natural mineral waters	Chloride	ISO 9297:1989 (confirmed 19942010)	Titrimetry	III

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²⁰ Water content excluding the crystallized water bound to lactose (generally known as "moisture content")

Natural mineral waters	Coliform organism, thermotolerant organism and presumptive <i>Escherichia coli</i>	ISO 9308-1: <u>2000/Cor 1:2007</u> 1990	Membrane filtration	I
Natural mineral waters	Faecal Streptococci	ISO 7899-2: 1984 2000 (confirmed 2010)	Membrane filtration	I
Natural mineral waters	Iron, dissolved	ISO 6332:1988 (confirmed 19952012)	Spectrophotometry	II
Natural mineral waters	Magnesium	ISO 6059:1984 (confirmed 19952012)	Titrimetry	II
Natural mineral waters	Magnesium	ISO 7980:1986 (confirmed 19952010)	Atomic absorption spectrophotometry	III
Natural mineral waters	Phenols	ISO 6439:1990 (confirmed 19952012)	Spectrophotometry	I
Natural mineral waters	Potassium	Examination of Water Pollution Control. WHO Pergamon Press (1982) Vol.2, pp. 142-145		II
Natural mineral waters	Sodium	Examination of Water Pollution Control. WHO Pergamon Press (1982) Vol.2 pp. 148-151		II
Natural mineral waters	Sodium	Examination of Water Pollution Control. WHO Pergamon Press (1982) Vol.2, pp. 151-152		III
Natural mineral waters	Spores of sulphite-reducing anaerobes (Clostridia)	ISO 6461-2:1986 (confirmed 19962013)	Membrane filtration	I
Natural mineral waters	Sulphates	ISO 9280:1990 (confirmed 1995)	Gravimetry	III
Natural mineral waters	Sulphide	Handb. Spurenanal. 1974		IV

Form index

Criteria applicable to health-related substances in the Standard for Natural Mineral Waters

Provision	ML	Min.	LOD	LOQ	Precision	Recover	Suggested methods	Principle
	(mg/L)	applicable	(mg/L)	(mg/L)	RSDR (%)	y (0/)	meeting the criteria	
Antimony	0.005	range (mg/L) 0.0028	0.001	0.002	No more than	(%) 80-110	ISO 17294-2:2003	ICP-MS
Allumony	0.003	0.0028	0.001	0.002	44	80-110	ISO 17294-2.2003 ISO 15586:2003	GF-AAS
							EPA 200.8	ICP-MS
Arsenic	0.01	0.0056	0.002	0.004	44	90-107	ISO 17294-2:2003	ICP-MS
Aiscilic	0.01	0.0030	0.002	0.004	44	90-107	ISO 17294-2.2003 ISO 15586:2003	GF-AAS
							ISO 13380.2003 ISO 11969:1996	AAS (Hydride)
							EPA 200.8	ICP-MS
							EFA 200.6	ICF-IVIS
Barium	0.7	0.35	0.07	0.14	34	95-105	ISO 11885:2007	ICP-OES
							ISO 17294-2:2003	ICP-MS
							EPA 200.8	ICP-MS
Borate	5	3.1	0.5	1	25	97-103	ISO 9390:1990	Spectrophotometry
Dorace	3	3.1	0.5	1	23	77-103	ISO 11885:2007	ICP-OES ²¹
							ISO 17294-2:2003	ICP-MS.
Cadmium	0.003	0.0017	0.0006	0.0012	44	80-110	ISO 11885:2007	ICP-OES
Cudinum	0.005	0.0017	0.0000	0.0012		00 110	ISO 17294-2:2003	ICP-MS
							ISO 15586:2003	GF-AAS
							ISO 5961:1994 (Section 3)	AAS
							EPA 200.8	ICP-MS
Chromium	0.05	0.028	0.01	0.02	44	90-107	ISO 11885:2007	ICP-OES
							ISO 17294-2:2003	ICP-MS
							ISO 15586:2003	GF-AAS
							ISO 18412:2005 (Cr VI)	Photometric
							ISO 23913:2006 (Cr VI)	CIA, spectrophotometry
							ISO 9174:1998 (Section 4)	
							EPA 200.8	ICP-MS
Copper	1	0.52	0.1	0.2	32	97-103	ISO 11885:2007	ICP-OES

²¹ Total Boron is determined

Provision	ML (mg/L)	Min. applicable range (mg/L)	LOD (mg/L)	LOQ (mg/L)	Precision RSDR (%) No more than	Recover y (%)	Suggested methods meeting the criteria	Principle
							ISO 17294-2:2003	ICP-MS
							ISO 15586:2003	GF-AAS
							ISO 8288:1986	Flame-AAS
							EPA 200.8	ICP-MS
Cyanide	0.07	0.039	0.014	0.028	44	90-107	ISO 14403:2002	CFA
							ISO 6703-1:1998	Photometric, trimetric
Fluoride	1.0	0.52	0.1	0.2	32	97-103	ISO 10304-1:2007	LC of ions
							ISO 10359-1:1992	Electrochemical probe
							(dissolved fluoride)	•
							ISO 10359-2:1994	Digestion, distillation
							(inorganic bound)	
Lead	0.01	0.0056	0.002	0.004	44	90-107	ISO 17294-2:2003	ICP-MS
							ISO 15586:2003	GF-AAS
							EPA 200.8	ICP-MS
Manganese	0.4	0.18	0.04	0.08	37	95-105	ISO 11885:2007	ICP-OES
							ISO 17294-2:2003	ICP-MS
							ISO 15586:2003	GF-AAS
							EPA 200.8	ICP-MS
Mercury	0.001	0.00056	0.0002	0.0004	44	80-110	EN 1483:2007	AAS
								Enrichment by amalgamation (III)
							ISO 17852:2006	AFS
							ISO 5666:1999	AAS after tin(II) chloride reduction
							ISO 16590:2000	Enrichment by amalgamation (III)
							EPA 200.8	ICP-MS
Nickel	0.02	0.011	0.004	0.008	44	90-107	ISO 17294-2:2003	ICP-MS
							ISO 15586:2003	GF-AAS
							EPA 200.8	ICP-MS
Nitrate	50	37	5	10	18	98-102	ISO 10304-1:2007	LC of ions
							ISO 13395:1996	CFA, FIA, Spectrophotometry
							ISO 7890-3:1988	Spectrophotometry
Nitrite	0.1	0.03	0.01	0.02	44	95-105	ISO 10304-1:2007	LC of ions UV

Provision	ML	Min.	LOD	LOQ	Precision	Recover	Suggested methods	Principle
	(mg/L)	applicable	(mg/L)	(mg/L)	RSDR (%)	y	meeting the criteria	
		range (mg/L)			No more than	(%)		
							ISO 13395:1996	CFA, FIA, Spectrophotometry
							ISO 6777:1984	Spectrophotometry
Selenium	0.01	0.0056	0.002	0.004	44	90-107	ISO 17294-2:2003	ICP-MS
							ISO 15586:2003	GF-AAS
							ISO 9965:1993	AAS (Hydride)
							EPA 200.8	ICP-MS

Performance characteristics of suggested methods

Provision	ML	Applicable	LOD	RSDR (%)	Recovery	Suggested methods	Principle
		range- from:			(%)		
Surface active agents	-	0.05 - 5.0 mg/L	0.05	< 44	70-100	ISO 16265:2009	CFA
			mg/l				
Mineral oil	-	>0.1 mg/L		< 41	71-102	ISO 9377-2:2000	GC
(hydrocarbon index)							
PCB	-	>15 ng/L		<20	70-130	AOAC 990.06	GC ECD
Pesticide	-	> 15 ng/ L		<20	70-130	AOAC 990.06	GC ECD
(organochlorine)							
PAH	-	0.005 μg/L		<10	80-110	ISO 17993:2004	HPLC FD
		0.04 μg/L		<18	80-110	ISO 7981-1:2005	TLC
		$0.005~\mu g/L$		<19	80-100	ISO 7981-2:2005	HPLC

Processed Fruits and Vegetables							
Commodity	Provision	Method	Principle	Туре			
Processed fruits and vegetables	Benzoic acid	NMKL 124 (1997)	Liquid Chromatography	II			
Processed fruits and vegetables	Benzoic acid	NMKL 103 (1984); or AOAC 983.16	Gas Chromatography	III			
Processed fruits and vegetables	Calcium	AOAC 968.31	Complexometry/ Titrimetry	II			

Processed fruits and vegetables	Drained Weight	AOAC 968.30 (Codex General Method)	Sieving Gravimetry	I
Processed fruits and vegetables	Fill of containers	CAC/RM 46-1972 (reference to "metal containers" deleted and refer to ISO 90.1:1999 for determination of water capacity in metal containers)	Weighing	I
Processed fruits and vegetables	Lead	AOAC 972.25 (Codex general method)	AAS (Flame absorption)	III
Packing medium Processed fruits and vegetables Canned berry frui (raspberry, strawb		AOAC 932.12 ISO 2173: 1978 <u>2003</u>	Refractometry	I
Processed fruits and Vegetables (except canned bamboo shoots, pH determined by AOAC 981.12)	рН	ISO 1842:1991 (confirmed 2012)	Potentiometry	IV
Processed fruits and vegetables	рН	AOAC 981.12	Potentiometry	III
Processed fruits and vegetables	рН	NMKL 179:2005	Potentiometry	II
Processed fruits and vegetables	Soluble solids	oluble solids ISO 2173:2003 AOAC 932.12		I
Processed fruits and vegetables	Sorbates	NMKL 103 (1984) / AOAC 983.16	Gas Chromatography	III
Processed fruits and vegetables	Sorbates	NMKL 124 (1997)	Liquid Chromatography	П
Processed fruits and vegetables	Tin	AOAC 980.19 (Codex general method)	AAS	II
Processed fruits and vegetables Total solids		AOAC 920.151	Gravimetry	I

Aqueous Coconut Products	Total Fats	ISO 1211 IDF 1:2010	Gravimetry (Röse-Gottlieb)	I
Aqueous Coconut Products	Total solids	ISO 6731 IDF 21:2010	Gravimetry	I
Aqueous Coconut Products	Non-fat solids	ISO 1211 IDF 1:2010 ISO 6731 IDF 21:2010	Calculation: Gravimetry (Röse-Gottlieb)	I
			Gravimetry	
Aqueous Coconut Products	Moisture	ISO 6731 IDF 21:2010	Calculation: Gravimetry	Ι
Canned Apple Sauce	Fill of containers	CAC/RM 46-1972* (for glass containers) (Codex general method for processed fruits and vegetables) and ISO 90-1.1:1997 (for metal containers) (Codex general method for processed fruits and vegetables)	Weighing	I
Canned Apple Sauce	Soluble solids	AOAC 932.12 ISO 2173:2003 (Codex general method for processed fruits and vegetables)	Refractometry	I
Canned green beans and wax beans	Tough strings	CAC/RM 39-1970	Stretching	I
Canned green peas	Proper fill (in lieu of drained weight)	CAC/RM 45-1972	Pouring and measuring	I
Canned green peas	Types of peas, distinguishing	CAC/RM 48-1972	Visual inspection	I
Canned mangoes	Syrup	AOAC 932.14C	Brix spindle method	I
Canned mushrooms	Washed drained weight	CAC/RM 44-1972	Sieving	I
Canned palmito	Mineral impurities	ISO 762: 1982 -2003 (confirmed 1992 2010)	Gravimetry	I
Canned Stone Fruits	Drained weight	AOAC 968.30 ISO:2173: 1978 2003	Gravimetry	I
Canned Stone Fruits	Soluble solids	AOAC 932.14C	Refractometry	I
Canned strawberries	Calcium	AOAC 968.31	Complexometric titrimetry	II

Canned strawberries	Mineral impurities	AOAC 971.33	Gravimetry	I
Certain canned citrus fruits	Calcium	NMKL 153:1996	Atomic Absorption Spectrophotometry	II
Certain canned citrus fruits	Calcium	AOAC 968.31	Complexometry Titrimetry	III
Certain Canned Vegetables (palmito)	Mineral impurities (sand)	AOAC 971.33	Gravimetry	I
		ISO 762:2003 (confirmed 2010)		
Citrus marmalade	Calcium	AOAC 968.31	Complexometric titrimetry	II
Dates	Identification of defects	Described in the Standard	Visual inspection	I
Dates	Moisture	AOAC 934.06	Gravimetry (vacuum oven)	I
Desiccated coconut	Total acidity of the extracted oil	ISO 660:2009 or AOCS Cd 3d-63 (09)	Titrimetry	I
Desiccated coconut	Ash	AOAC 950.49	Gravimetry	I
Desiccated coconut	Extraneous vegetable matter	Described in the Standard	Counting extraneous material with the naked eye	IV
Desiccated coconut	Moisture	AOAC 925.40	Gravimery (loss on drying)	I
Desiccated coconut	Oil content	AOAC 948.22	Gravimetry	I
Dried apricots	Identification of defects	Described in the Standard	Visual inspection (weighing)	I
Dried apricots	Moisture	AOAC 934.06	Gravimetry (vacuum oven)	I
Dried apricots	Sulphur dioxide	AOAC 963.20	Colorimetry	II
Jams (fruit preserves) and jellies	Fill of Containers	CAC/RM 46-1972	Weighing	I
Jams (fruit preserves) and jellies	Soluble solids	ISO 2173:2003 AOAC 932.12	Refractometry	I
Mango chutney	Ash insoluble in HCl	ISO 763: 1982 2003	Gravimetry	I
Pickled cucumbers	Acidity, total	AOAC 942.15	Titrimetry	I
Pickled cucumbers	Drained weight	AOAC 968.30	Gravimetry	I
Pickled cucumbers	Mineral impurities	AOAC 971.33	Gravimetry	I
Pickled cucumbers	Mineral impurities	AOAC 971.33	Gravimetry	

Pickled cucumbers	Salt in brine	AOAC 971.27 (Codex general method)	Potentiometry	II
Pickled cucumbers	Volume fill by displacement	Described in the Standard	Displacement	I
Preserved tomatoes	Calcium	AOAC 968.31	Complexometric titrimetry	III
Preserved tomatoes	Calcium	NMKL 153:1996	Atomic Absorption Spectrophotometry	II
Preserved tomatoes	Minimum Drained Weight	AOAC 968.30	Gravimetry (sieving) note: Use a No. 14 screen instead of '7/16' or No. 8	Ι
Preserved tomatoes	Mould count	AOAC 965.41	Howard mould count	I
Processed tomato concentrates	Lactic acid	EN 2631:1999	Enzymatic determination	II
Processed tomato concentrates	Mineral impurities (sand)	AOAC 971.33	Gravimetry	IV
Processed tomato concentrates	Mould count	AOAC 965.41	Howard mould count	I
Processed tomato concentrates	Natural tomato soluble solids	AOAC 970.59	Refractometry	I
Processed tomato concentrates	Sodium chloride	AOAC 971.27 (Codex general method)	Potentiometry	II
Processed tomato concentrates	Tomato soluble solids	AOAC 970.59	Refractometry	I
Raisins	Mineral impurities	CAC/RM 51-1974	Ashing	I
Raisins	Mineral oil	CAC/RM 52-1974	Extraction and separation on alumina	II
Raisins	Moisture	AOAC 972.20	Electrical conductance	I
Raisins	Sorbitol	AOAC 973.28	Gas chromatography	II
Raisins	Sulphur dioxide	AOAC 963.20	Colorimetry	II
Table olives	Drained weight	AOAC 968.30 (Codex general method for processed fruits and vegetables)	Sieving Gravimetry	I
Table olives	Fill of containers	CAC/RM 46-1972* (for glass containers) (Codex general method for processed fruits and vegetables) and ISO 90-1.1:19979 (for metal containers) (Codex general method for processed fruits and vegetables)	Weighing	Ī

Table olives	pH of brine	NMKL 179:2005 (Codex general method for	Potentiometry	II
		processed fruits and vegetables)		
		AOAC 981.12 (Codex general method for		III
		processed fruits and vegetables)		
		ISO 1842:1991 (confirmed 2012)		IV
Table olives	Salt in brine	AOAC 971.27 NMKL 178, 2004 (Codex	Potentiometry	II
		general method)		
		ISO 3634:1979 (confirmed 2013) "chloride		III
		expressed as sodium chloride"		
		(Codex general method for processed fruits and	I	
		vegetables)		
Table olives	Lead	AOAC 999.11 NMKL 139, 1991 (Codex	AAS (Flame absorption)	II
		general method)		
Table olives	Tin	NMKL 190:2009 EN 15764:2009	AAS	II

* DETERMINATION OF WATER CAPACITY OF CONTAINERS (CAC/RM 46-1972)

1. SCOPE

This method applies to glass containers.

2. **DEFINITION**

The water capacity of a container is the volume of distilled water at 20°C which the sealed container will hold when completely filled.

3. PROCEDURE

- 3.1 Select a container which is undamaged in all respects.
- 3.2 Wash, dry and weigh the empty container.
- 3.3 Fill the container with distilled water at 20°C to the level of the top thereof, and weigh the container thus filled.

4. CALCULATION AND EXPRESSION OF RESULTS

Subtract the weight found in 3.2 from the weight found in 3.3. The difference shall be considered to be the weight of water required to fill the container. Results are expressed as mL of water.

Products	Provisions	Method	Principle	Type
Aqueous coco	nut Total Fats	ISO 1211 IDF 1:2010	Gravimetry (Röse- Gottlieb)	I
Aqueous coco	nut Totals Solids	ISO 6731 IDF 21:2010	Gravimetry	I
Aqueous coco products	nut Non-fat solids	ISO 1211 IDF 1:2010 ISO 6731 IDF 21:2010	Calculation: Gravimetry (Röse- Gottlieb)	I

			Gravimetry	
Aqueous coconut products	Moisture	ISO 6731 IDF 21:2010	Gravimetry	I

Quick Frozen Fruits and Vegetables				
Quick frozen fruits and vegetables	Net weight	CAC/RM 34-1970	Weighing	I
Quick frozen fruits and vegetables	Thawing procedure	CAC/RM 32-1970	Thawing	I
Quick frozen fruits and vegetables: Berries, leek and carrot	Mineral impurities	CAC/RM 54-1974	Flotation and sedimentation	I
Quick frozen fruits and vegetables: Berries, Whole kernel corn and Corn- on-the-cob	Soluble solids, total	CAC/RM 43-1971	Refractometry	I
Quick frozen fruits and vegetables: Peaches and berries	Drained fruit/drained berries	Described in the Standards	Draining	I
Quick frozen fruits and vegetables: Vegetables	Cooking procedure	CAC/RM 33-1970	Cooking	I
Quick frozen French fried potatoes	Moisture	AOAC 984.25	Gravimetry (convection oven)	I
Quick frozen green and wax beans	Tough strings	CAC/RM 39-1970	Stretching	I
Quick frozen peas	Solids, alcohol insoluble	CAC/RM 35-1970	Gravimetry	I
Quick frozen spinach	Dry matter, Salt-free	Described in the Standard	Weighing	I
Processed Meat and Poultry Product	ts and Soups and Broths			
Meat Products	Nitrates and/or Nitrites	ENV 12014-3:1998-06 - Part 3	Spectrometric determination of nitrate and nitrite content of meat products after enzymatic reduction of nitrate to nitrite	III
Meat Products	Nitrates and/or Nitrites	ENV 12014-4:1998-06 - Part 4 NMKL 165 (2000)	Ion-exchange chromatographic method	III
Processed meat and poultry products	Fat	ISO 1443 <u>:</u> -1973	Gravimetry	I

Processed meat and poultry products	Lead	AOAC 934.07	Colorimetry (dithizone)	II
Processed meat and poultry products	Nitrates	ISO 3091:1975 (confirmed 1996)	Colorimetry (cadmium reduction)	II
Processed meat and poultry products	Nitrites	ISO 2918:1975 (confirmed 1996)	Colorimetry	IV
Processed meat and poultry products	Tin	AOAC 985.16 (Codex general method)	Atomic absorption spectrophotometry	II
Processed meat and poultry products	Nitrogen/protein	ISO 937:1978 (confirmed 1995)	Titrimetry	II
Bouillons and Consommés (soups and broths)	Amino nitrogen	AIIBP Method No 2/7	Volumetry (modified Van Slyke)	II
Bouillons and Consommés (soups and broths	Creatinine	AIIBP Method No 2/5	HPLC	II
Bouillons and Consommés (soups and broths	Nitrogen, total	AOAC 928.08	Kjeldahl	II
Bouillons and Consommés (soups and broths)	Sodium chloride	AIBP Method No 2/4	Potentiometric titration (chloride expressed as sodium chloride)	II
Canned corned beef	Lead	AOAC 972.25 (Codex general method)	Atomic absorption spectrophotometry	II
Canned corned beef	Nitrites, potassium and/or sodium salt	AOAC 973.31 (Codex general method)	Colorimetry	II
Canned corned beef	Nitrites, potassium and/or sodium salt	ISO 2918:1975 (confirmed 1996)	Colorimetry	IV
Canned corned beef	Tin (Products in tinplate and other containers)	AOAC 985.16 (Codex general method)	Atomic absorption spectrophotometry	II
Cooked cured chopped meat	Fat	ISO 1443 <u>:</u> -1973	Gravimetry (extraction)	I
Cooked cured chopped meat	Lead	AOAC 972.25 (Codex general method)	Atomic absorption spectrophotometry	II
Cooked cured chopped meat	Nitrites	AOAC 973.31 (Codex general method)	Colorimetry	II
Cooked cured chopped meat	Nitrites	ISO 2918:1975 (confirmed 1996)	Colorimetry	IV
Cooked cured chopped meat	Tin	AOAC 985.16 (Codex general method)	Atomic absorption spectrophotometry	II
Cooked cured ham	Fat	ISO 1443:1973	Gravimetry (extraction)	I
Cooked cured ham	Gelatin, added	Described in the Standard	Calculation	I

Lead Nitrites Nitrites Protein (conversion factor 6.25) Tin Fat Gelatin, added	AOAC 972.25 (Codex general method) AOAC 973.31 (Codex general method) ISO 2918:1975 (confirmed 1996) ISO 937:1978 (confirmed 1995) AOAC 985.16 (Codex general method) ISO 1443:1973	Atomic absorption spectrophotometry Colorimetry Colorimetry Titrimetry, Kjeldahl digestion Atomic absorption spectrophotometry	II II IV II II II
Nitrites Protein (conversion factor 6.25) Tin Fat	ISO 2918:1975 (confirmed 1996) ISO 937:1978 (confirmed 1995) AOAC 985.16 (Codex general method)	Colorimetry Titrimetry, Kjeldahl digestion Atomic absorption spectrophotometry	IV II
Protein (conversion factor 6.25) Tin Fat	ISO 937:1978 (confirmed 1995) AOAC 985.16 (Codex general method)	Titrimetry, Kjeldahl digestion Atomic absorption spectrophotometry	II
6.25) Tin Fat	AOAC 985.16 (Codex general method)	Atomic absorption spectrophotometry	
Fat			II
	ISO 1443:1973		
Gelatin, added		Gravimetry (extraction)	I
	Described in the Standard	Calculation	I
Lead	AOAC 972.25 (Codex general method)	Atomic absorption spectrophotometry	II
Nitrites	AOAC 973.31 (Codex general method)	Colorimetry	II
Nitrites	ISO 2918:1975 (confirmed 1996)	Colorimetry	IV
Protein	ISO 937:1978 (confirmed 1995)	Titrimetry, Kjeldahl digestion	II
Tin	AOAC 985.16 (Codex general method)	Atomic absorption spectrophotometry	II
Fat	ISO 1443:1973	Gravimetry (extraction)	I
Lead	AOAC 972.25 (Codex general method)	Atomic absorption spectrophotometry	II
Nitrites, potassium and/or sodium salt	AOAC 973.31 (Codex general method)	Colorimetry	II
Nitrites, potassium and/or sodium salt	ISO 2918:1975 (confirmed 1996)	Colorimetry	IV
Tin	AOAC 985.16 (Codex general method)	Atomic absorption spectrophotometry	II
Acidity	MAFF Validated Method V19	Titrimetry	I
	J. Assoc. Public Analysts (1992) 28 (4) 171- 175		
	Lead Nitrites Nitrites Protein Tin Fat Lead Nitrites, potassium and/or sodium salt Nitrites, potassium and/or sodium salt Tin	Lead AOAC 972.25 (Codex general method) Nitrites AOAC 973.31 (Codex general method) Nitrites ISO 2918:1975 (confirmed 1996) Protein ISO 937:1978 (confirmed 1995) Tin AOAC 985.16 (Codex general method) Fat ISO 1443:1973 Lead AOAC 972.25 (Codex general method) Nitrites, potassium and/or sodium salt Nitrites, potassium and/or sodium salt Tin AOAC 985.16 (Codex general method) AOAC 973.31 (Codex general method) AOAC 973.31 (Codex general method) MAFF Validated Method V19 J. Assoc. Public Analysts (1992) 28 (4) 171-	Lead AOAC 972.25 (Codex general method) Atomic absorption spectrophotometry Nitrites AOAC 973.31 (Codex general method) Colorimetry Nitrites ISO 2918:1975 (confirmed 1996) Colorimetry Protein ISO 937:1978 (confirmed 1995) Titrimetry, Kjeldahl digestion Tin AOAC 985.16 (Codex general method) Atomic absorption spectrophotometry Fat ISO 1443:1973 Gravimetry (extraction) Lead AOAC 972.25 (Codex general method) Atomic absorption spectrophotometry Nitrites, potassium and/or sodium salt AOAC 973.31 (Codex general method) Colorimetry Nitrites, potassium and/or sodium salt ISO 2918:1975 (confirmed 1996) Colorimetry Tin AOAC 985.16 (Codex general method) Atomic absorption spectrophotometry Acidity MAFF Validated Method V19 Titrimetry Acidity MAFF Validated Method V19 Titrimetry J. Assoc. Public Analysts (1992) 28 (4) 171-

TT	11	HIC Materia Company and a C. D.		
Honey	diastase activity	IHC Method for Determination of Diastase activity with Phadebas, 2009 except that the incubation time should be increased from 15 to 30 minutes.		IV
Honey	Moisture	AOAC 969.38B or MAFF Validated Method V21	Refractometry	I
Honey	Sample preparation	AOAC 920.180	-	-
Honey	Solids, water-insoluble	MAFF Validated Method V22 J. Assoc. Public Analysts (1992) 28(4) 189- 193	Gravimetry	I
Honey	Sugars added (for sugar profile)	AOAC 998.18	Carbon isotope ratio mass spectrometry	I
Honey	Sugars added: detection of corn and cane sugar products	AOAC 978.17	Carbon isotope ratio mass spectrometry	I
Sugars (dextrose anhydrous and dextrose monohydrate)	D-Glucose	ISO 5377:1981 (confirmed 2009)	Titrimetry	I
Sugars (dextrose anhydrous and dextrose monohydrate)	Solids, total	ISO 1741:1980 (confirmed 2009)	Gravimetry (vacuum oven)	I
Sugars (dextrose anhydrous and dextrose monohydrate, dried glucose syrup, glucose syrup, powdered dextrose, lactose)	Sulphated ash	ISO 5809:1982 (confirmed 2008)	Single sulphonation	I
Sugars (dextrose anhydrous and dextrose monohydrate)	Sulphur dioxide	ISO 5379: 1983 2013	Acidimetry and nephelometry	IV
Sugars (fructose)	рН	ICUMSA GS 1/2/3/4/7/8-23 (1994)	Potentiometry	I
Sugars (fructose)	Conductivity ash	ICUMSA GS 2/3-17 (1994)	Conductimetry	I
Sugars (fructose)	D-Fructose	ISO 10504: 1988 2013	Liquid chromatography (refractive index detection)	II
Sugars (fructose)	D-Glucose	ISO 10504: 1988 <u>2013</u>	Liquid chromatography (refractive index detection)	II

Sugars (fructose)	Loss on drying	ISO 1742:1980 (confirmed 2009)	Gravimetry	I
Sugars (fructose)	Sulphur dioxide	ISO 5379: 1983 <u>2013</u>	Acidimetry and nephelometry	IV
Sugars (glucose syrup and dried glucose syrup)	Reducing sugar	ISO 5377:1981 (confirmed 2009)	Titrimetry	I
Sugars (glucose syrup and dried glucose syrup)	Solids, total	ISO 1742:1980 (confirmed 2009)	Gravimetry (vacuum oven)	I
Sugars (glucose syrup and dried glucose syrup)	Sulphur dioxide	ISO 5379: 1983 <u>2013</u>	Acidimetry and nephelometry	IV
Sugars (lactose)	Lactose, anhydrous	ICUMSA GS 4/3-3 (1994)	Titrimetry	П
Sugars (lactose)	Loss on drying	USP General Chapter 731	Gravimetry (Drying at 120°C for 16 h)	I
Sugars (lactose)	pН	ICUMSA GS 1/2/3/4/7/8-23 (1994)	Potentiometry	I
Sugars (plantation and mill white sugar)	Colour	ICUMSA GS9/1/2/3-8	Photometry	I
Sugars (plantation or mill white sugar)	Conductivity ash	ICUMSA GS 1/3/4/7/8-13 (1994)	Conductimetry	I
Sugars (plantation or mill white sugar)	Invert sugar	ICUMSA GS 1/3/7-3 (1994)	Titrimetry (Lane & Eynon)	I
Sugars (plantation or mill white sugar)	Loss on drying	ICUMSA GS 2/1/3-15 (1994)	Gravimetry	I
Sugars (plantation or mill white sugar)	Polarization	ICUMSA GS 1/2/3-1 (1994)	Polarimetry	II
Sugars (plantation or mill white sugar)	Sulphur dioxide	ICUMSA GS 2/3-35 (1998) NMKL 135 (1990) EN 1988-2 (1998)	Enzymatic method	II
Sugars (powdered sugar and powdered dextrose)	Sulphur dioxide	ICUMSA GS 2/3-35 (1998) NMKL 135 (1990) EN 1988-2 (1998)	Enzymatic method	II
Sugars (powdered sugar)	Colour	ICUMSA GS 2/3-9 (1994)	Photometry	I
Sugars (powdered sugar)	Conductivity ash	ICUMSA GS 2/3-17 (1994)	Conductimetry	I
Sugars (powdered sugar)	Invert sugar	ICUMSA GS 2/3-5 (1997) after filtration if necessary to remove any anticaking agents	Titrimetry	I

Sugars (powdered sugar)	Loss on drying	ICUMSA GS 2/1/3-15 (1994)	Gravimetry	I
Sugars (powdered sugar)	Polarization	ICUMSA GS 2/3-1 after filtration if necessary to remove any anticaking agents	Polarimetry	II
Sugars (raw cane sugar)	Sulphur dioxide	ICUMSA GS 2/3-35 (1998) NMKL 135 (1990) EN 1988-2 (1998)	Enzymatic method	II
Sugars (soft white sugar and soft brown sugar)	Conductivity ash	ICUMSA GS 1/3/4/7/8-13 (1994)	Conductimetry	I
Sugars (soft white sugar and soft brown sugar)	Invert sugar	ICUMSA GS 4/3-3 (1994) (applicable at levels >10% m/m)	Titrimetry (Lane & Eynon)	I
Sugars (soft white sugar and soft brown sugar)	Invert sugar	ICUMSA GS 1/3/7-3 (1994) (applicable at levels <10% m/m)	Titrimetry (Lane & Eynon)	I
Sugars (soft white sugar and soft brown sugar)	Loss on drying	ICUMSA GS 2/1/3-15 (1994)	Gravimetry	I
Sugars (soft white sugar and soft brown sugar)	Sucrose plus invert sugar	ICUMSA GS 4/3-7 (1994)	Titrimetry	I
Sugars (soft brown sugar)	Sulphated ash	ICUMSA GS 1/3/4/7/8-11 (1994)	Gravimetry	I
Sugars (soft white sugar and soft brown sugar)	Sulphur dioxide	ICUMSA GS 2/3-35 (1998) NMKL 135 (1990) EN 1988-2 (1998)	Enzymatic method	II
Sugars (soft white sugar)	Colour	ICUMSA GS 2/3-9 (1994)	Photometry	I
Sugars (white sugar)	Conductivity ash	ICUMSA GS 2/3-17 (1994)	Conductimetry	I
Sugars (white sugar)	Invert sugar	ICUMSA GS 2/3-5 (1997)	Titrimetry	I
Sugars (white sugar)	Loss on drying	ICUMSA GS 2/1/3-15 (1994)	Gravimetry	I
Sugars (white sugar)	Polarization	ICUMSA GS 2/3-1 (1994)	Polarimetry	II
Sugars (white sugar)	Sulphur dioxide	ICUMSA GS 2/3-35 (1998) NMKL 135 (1990) EN 1988-2 (1998)	Enzymatic method	II

Miscellaneous Products				
Chili sauce	рН	NMKL 179:2005 (Codex general method)	Potentiometry	II
Chili sauce	рН	AOAC 981.12 (Codex general method)	Potentiometry	III
Chili sauce	Fill of containers	CAC/RM 46-1972 (Codex general method)	Weighing	I
Date Paste	Moisture	AOAC 934.06	Gravimetry	I
Date Paste	Mineral impurities	ISO 762:2003 (confirmed 2010)	Gravimetry	I
Date Paste	Ash	AOAC 940.26	Gravimetry	I
Date Paste	Acid Soluble Ash	AOAC 900.02D	Gravimetry, Calculation	I
Edible cassava flour	Fibre, crude	ISO 5498:1981 (B.5 separation) (confirmed 2008)	Gravimetry	I
Edible cassava flour	Granularity	ISO 2591-1:1988 (confirmed 2012)	Sieving	I
Edible cassava flour	Moisture	ISO 712: 1998 2009	Gravimetry	I
Fermented Soybean Paste	Total Nitrogen	AOAC 984.13	Kjeldahl	I
Fermented Soybean Paste	Amino Nitrogen	AOAC 920.154 on the conditions specified in the standard ²²	Volumetry	I
Fermented Soybean Paste	Moisture	AOAC 934.01 (≤70°C, ≤ 50 mm Hg)	Gravimetry	I
Food grade salt	Arsenic	EuSalt/AS 015-2007	ICP-OES	IV
Food grade salt	Cadmium	EuSalt/AS 015-2007	ICP-OES	III
Food grade salt	Cadmium	EuSalt/AS 014-2005	Atomic absorption spectrophotometry	IV

⁻

Preparation of test samples: Weigh 2 g of sample into a 250 ml beaker and mix the sample with 100 ml of cold (15°C) NH_3 -free H_2O and then stir the mixture for 60 min. Next, decant the mixture through a quantitative filter and collect the filtrate in a 100 ml volumetric flask.

Endpoint - A pH meter shall be used to determine the endpoint instead of optical verification of colours

²² Section 9.2 Determination of Amino Nitrogen

Food grade salt	Calcium and magnesium	ISO 2482:1973 (confirmed 2011)	Complexometric titrimetry	II
Food grade salt	Calcium and magnesium	EuSalt/AS 009-2005	Flame atomic absorption spectrometry	III
Food grade salt	Calcium and magnesium	EuSalt/AS 015-2007	ICP-OES	III
Food grade salt	Copper	EuSalt/AS 015-2007	ICP-OES	III
Food grade salt	Insoluble matter	ISO 2479:1972 (confirmed 2011)	Gravimetry	II
Food grade salt	Iodine	EuSalt/AS 002-2005	Titrimetry using sodium thiosulphate	II
Food grade salt	Iodine	EuSalt/AS 019-2009	ICP-OES	III
Food grade salt	Iodine	WHO/UNICEF/ICCIDD method ²³ Only applicable to a product which has been fortified with iodate	Titrimetry using sodium thiosulphate	IV
Food grade salt	Lead	EuSalt/AS 015-2007	ICP-OES	III
Food grade salt	Lead	EuSalt/AS 013-2007	Atomic absorption spectrophotometry	IV
Food grade salt	Loss on drying	ISO 2483:1973 (confirmed 2011)	Gravimetry (drying at 110°C)	I
Food grade salt	Mercury	EuSalt/AS 012-2005	Cold vapour atomic absorption spectrophotometry	IV
Food grade salt	Potassium	EuSalt/AS 008-2005	Flame atomic absorption spectrophotometry	II
Food grade salt	Potassium	EuSalt/AS 015-2007	ICP-OES	III
Food grade salt	Sodium chloride	Described in the Standard	Calculation	I
Food grade salt	Sulphate	ISO 2480:1972 (confirmed 2011)	Gravimetry	II
Food grade salt	Sulphate	EuSalt/AS 015-2007	ICP-OES	III
Food grade salt	Sulphate	EuSalt/AS 018-2005	Ion chromatography	III
Foul medames	Sample Preparation	AOAC 945.68		_

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²³Assessment of iodine deficiency disorders and monitoring their elimination. A guide for programme managers. Third edition, Annex 1:Titration method for determining salt iodate and salt iodine content. World Health Organization, Geneva, 2007. The report is available from http://www.who.int/nutrition/publications/micronutrients/iodine_deficiency/WHO_NHD_01.1/en/index.html

Foul medames	Salt content	AOAC 971,27	Potentiometry	II
		NMKL 178:2004		
Foul medames	Drained weight	AOAC 968.30	Sieving	I
Gari	Ash	ISO 2171: 1993 2007 (confirmed 2011)	Gravimetry	I
Gari	Fibre, crude	ISO 5498:1981 (B.5 separation)	Gravimetry	I
Gari	Granularity	ISO 2591-1:1988 (confirmed 2012)	Sieving	I
Gari	Moisture	ICC Method No 109/1 (1986) ISO 712: 1998 2009	Gravimetry	I
Ginseng Products	Moisture	AOAC 925.45	Gravimetry, drying at atmospheric pressure	IV
Ginseng Products	Solids	AOAC 925.45 and calculated by subtracting the content of water from 100%.	calculation	IV
Ginseng Products	Ash	AOAC 923.03	Gravimetry, after ashing at 550°C	IV
Ginseng Products	Water-insoluble Solids	described in the Standard (Annex A)	Gravimetry	IV
Ginseng Products	Water-saturated 1-butanol extracts	described in the Standard (Annex B)	Gravimetry	IV
Ginseng Products	Identification of ginsenosides Rb1 and Rf	described in the Standard (Annex C)	TLC or HPLC	IV
Gochujang	Capsaicin	AOAC 995.03	HPLC	II
Gochujang		described in the Standard (Annex D)	Gas chromatography	IV
Gochujang	Crude protein	AOAC 984.13 (Nitrogen conversion factor: 6.25)	Kjeldahl	I
Gochujang	Moisture	AOAC 934.01 (≤ 70°C, ≤ 50 mm Hg)	Gravimetry	I
Guideline level for acrylonitrile	Acrylonitrile	AOAC 985.13	Gas chromatography	II
Guideline levels for mercury in fish	Methyl mercury	AOAC 988.11	Atomic absorption spectrophotometry	II

Guideline levels for vinyl chloride monomer	Vinyl chloride monomer	ISO 6401: 1985 2008 (confirmed 2011)	Gas chromatography	П
Guideline levels for vinyl chloride monomer	Vinyl chloride monomer	Commission Directive 81/432/EEC O.J. No. L.167, p. 6, 24.6.81	Gas chromatography ("head-space")	III
Guidelines for nutrition labelling	Polyunsaturated fatty acids	AOCS Ce 1h-05 ²⁴	Gas liquid chromatography	II
Guidelines for nutrition labelling	Saturated fat	AOAC 996.06; or AOCS Ce 1h-05	Gas liquid chromatography	II
Guidelines for nutrition labelling	Saturated fatty acids	AOCS Ce 1h-05	Gas liquid chromatography	II
Harissa	Acidity	ISO 750:1998	titrimetry	I
Harissa	Acid insoluble ash	ISO 763:2003	gravimetry	I
Harissa	Dry extract – soluble solids	ISO 2173:2003	refractometry	I
Halwa Tehenia	Acidity	AOAC 924.53, AOAC 942.15	Titrimetry	IV
Halwa tehenia	Ash	AOAC 900.02 AACC Intl 8.14.01	gravimetry	I
Halwa tehenia	Fat	AOAC 963.15	gravimetry	I
Halwa tehenia	Moisture	AOAC 925.45 AACC Intl 44.60.01	gravimetry	I
Halwa Tehenia	Sugars	ISI 28-1e ²⁵	Titrimetry	IV
Humus with tehena	Salt content	AOAC 971.27	Potentiometry	II
		NMKL 178:2004		
Humus with tehena	Total acidity	AOAC 925.53	Titrimetry	I
Non-fermented soybean products	Moisture content	AOAC 925.09 AACCI 44-40.01	Gravimetry (vacuum oven)	I
Non-fermented soybean products	Protein content	NMKL 6, 2004 or AACCI 46-16.01 or AOAC 988.05 or AOCS Bc 4-91 or AOCS Ba 4d-90 (Nitrogen factor 5.71)	Titrimetry, Kjeldahl digestion	I

Can also be used to measure *trans* unsaturated fatty acids http://www.starch.dk/isi/methods/28luff.htm

Sago Flour	Moisture Content	ISO 712: 1998 2009	Gravimetry	I
Sago Flour	Ash (inorganic extraneous matter)	ISO 2171: 2007 (confirmed 2011)	Gravimetry	I
Sago Flour	Acidity	AOAC 939.05	Titrimetry	I
Sago Flour	Crude Fibre	ISO 6541:1981 (confirmed 2008)	Gravimetry	I
Sago Flour	Starch	AOAC 920.44.	Gravimetry	I
Tehena	Moisture Content	ISO 934:1980 (confirmed 2012)	Gravimetry	I
Tehena	Protein content	ISO 1871: 1975 2009	Titrimetry, Kjeldahl	I
Tehena	Total Ash	ISO 6884:19802008 (confirmed 2012)	Gravimetry	I
Tehena	Acid Insoluble Ash	ISO 735:1977 (confirmed 2013)	Gravimetry	I
Tehena	Total Acidity	ISO 729:1988 (confirmed 2013)	Titrimetry	I
Tehena	Sesame oil	AOCS Cb 2-40 (97) (Baudouin Test)	Colour reaction	I
Tempe	Moisture content	AOAC 925.09 AACCI 44-40.01	Gravimetry (vacuum oven)	I
Tempe	Protein content	NMKL 6, 2004 or AOAC 988.05 or AACCI 46-16.01 (Nitrogen factor 5.71)	Titrimetry, Kjeldahl digestion	I
Tempe	Lipid Content	AOAC 983.23	Gravimetry	I
Tempe	Crude fibre	ISO 5498:1981 (confirmed 2008) or AOAC 962.09 or AACCI 32-10.01	Gravimetry	I

PART B

METHODS OF SAMPLING BY COMMODITY CATEGORIES AND NAMES

Commodity Categories	Method of Sampling	Notes	
Cereals, Pulses and Legumes and Derived Products			
Wheat protein products including wheat gluten	ISO 13690:1999		
Fats and Oils			
Olive Oils and Olive-Pomace Oils	ISO 661: 1989 2003 (confirmed 2014) and ISO 5555:2001 (confirmed 2012)-		
Milk and Milk Products			
Milk products	ISO 707 IDF 50:2008	General instructions for obtaining a sample from a bulk	
Milk products	ISO 5538 IDF 113:2004	Inspection by attributes	
Milk products	IDF 136A:1992	Inspection by variables	
	ISO 8197:1988		
Processed Fruits and Vegetables			
Desiccated coconut	Described in the Standard		
Certain canned vegetables, jams and jellies	Described in the Standard		
Chili sauce	Described in the Standard		
Table Olives	Described in the Standard		