

Editorial revisions to Codex STAN 234 and STAN 231 from CEN & BSI

### Codex STAN 234

Commodity	Provision	Method	Principle	Type
<b>Cereals, Pulses and Legumes and Derived Products</b>				
Peanuts (Cereals, shell-fruits and derived products ( including peanuts))	Sum of aflatoxins B <sub>1</sub> , B <sub>2</sub> , G <sub>1</sub> and G <sub>2</sub>	<del>EN 12955:1999-07</del> <b>EN ISO 16050:2011</b> <del>ISO 16050:2003</del>	HPLC with post column derivatization and immunoaffinity column clean up	III
<b>Fats and Oils and Related Products</b>				
Fats and Oils (all)	Soap content	<del>BS 684 Section 2.5</del> <b>EN ISO 10539:2002</b> ; or AOCS Cc 17-95 (09)	Gravimetry	I
Named Vegetable Oils	Soap content	<del>BS 684 Section 2.5</del> <b>EN ISO 10539:2002</b> ; or AOCS Cc 17-95 (09)	Gravimetry	I
<b>Foods for Special Dietary Uses</b>				
Infant formula	Biotin	<del>EN 15607:2008</del> <b>2009</b> (d-biotin) (Measures total D-biotin (free + D-biocytn)	HPLC	II
Infant formula	Niacin	<del>EN 15652:2009</del> (Free and bound and phosphorylated forms measured either as aggregate of nicotinic acid + nicotinamide, or as individual forms)	HPLC	II <sup>10</sup>

Footnote: <sup>10</sup> <del>when published as EN method</del>				
Infant formula	Vitamin D	EN 12821: <del>2000</del> <b>2009</b> (D2 and/or D3 measured as single components. Hydroxylated forms not measured.) NMKL 167: 2000	HPLC	II
Infant formula	Vitamin B6	EN 14166: <del>2008</del> <b>2009</b> (Aggregates free and bound pyridoxal, pyridoxine and pyridoxamine and measures as pyridoxine)	Microbioassay	III
<b>Fruit Juices and Nectars</b>				
Fruit Juices and Nectars	Glucose and fructose (permitted ingredients)	EN 12630: <del>1999</del> IFU Method No 67 (1996) NMKL 148 (1993)	HPLC	III
Fruit Juices and Nectars	Glucose-D and fructose-D (permitted ingredients)	EN 1140: <del>1994</del> IFU Method No 55 (1985)	Enzymatic determination	II
Fruit Juices and Nectars	Malic acid-D	EN 12138: <del>1997</del> IFU Method No 64 (1995)	Enzymatic determination	II
Fruit Juices and Nectars	Sucrose (permitted ingredients)	EN 12630: <del>1999</del> IFU Method No 67 (1996) NMKL 148 (1993)	HPLC	II
Fruit Juices and Nectars	Sections 3.2 Quality Criteria and 3.3 Authenticity <sup>14</sup>	Determination of acetic acid EN 12632: <del>1999</del> IFU Method No 66 (1996)	Enzymatic determination	II
Fruit Juices and Nectars	Sections 3.2 Quality Criteria and 3.3 Authenticity <sup>14</sup>	Determination of free amino acids EN 12742 ( <del>xxxx</del> ) : <del>1999</del> IFU Method No 57 (1989)	Liquid Chromatography	II
Fruit Juices and Nectars	Sections 3.2 Quality Criteria and 3.3 Authenticity <sup>14</sup>	Determination of glucose fructose and saccharose	HPLC	II

		EN 12630: <del>1999</del> - IFU Method No 67 (1996) NMKL 148 (1993)		
Fruit Juices and Nectars	Sections 3.2 Quality Criteria and 3.3 Authenticity <sup>14</sup>	Determination of relative density EN 1131: ( <del>1993</del> ) <b>1994</b> ; IFU Method No 1 (1989) & IFU Method No General sheet (1971)	Pycnometry	II
Fruit Juices and Nectars	Sections 3.2 Quality Criteria and 3.3 Authenticity <sup>14</sup>	Determination of stable carbon isotope ratio of sugars from fruit juices ENV 12140: <b>1996</b> Analytica Chimica Acta.271 (1993)	Stable isotope mass spectrometry	II
Fruit Juices and Nectars	Sections 3.2 Quality Criteria and 3.3 Authenticity <sup>14</sup>	Determination of stable hydrogen isotope ratio of water from fruit juices ENV 12142( <del>1997</del> ): <b>1996</b>	Stable isotope mass spectrometry	II
Fruit Juices and Nectars	Sections 3.2 Quality Criteria and 3.3 Authenticity <sup>14</sup>	Determination of stable oxygen isotope ratio in fruit juice water ENV 12141( <del>1997</del> ) : <b>1996</b>	Stable isotope mass spectrometry	II
Fruit Juices and Nectars	Sections 3.2 Quality Criteria and 3.3 Authenticity <sup>14</sup>	Determination of titratable acids, total EN 12147 ( <del>1995</del> ) : <b>1996</b> IFU Method No Method No 3, (1968) ISO 750:1998	Titrimetry	I
<b>Processed Fruits and Vegetables</b>				
Processed tomato concentrates	Lactic acid	EN <del>2634</del> <b>12631</b> :1999	Enzymatic determination	II
<b>Processed Fruits and Vegetables</b>				

Meat Products	Nitrates and/or Nitrites	<del>ENV 12014-3:1998-06</del> <b>EN 12014-3:2005</b> - 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	<del>ENV 12014-4:1998-06</del> <b>EN 12014-4:2005</b> - Part 4 NMKL 165 (2000)	Ion-exchange chromatographic method	III

<b>Criteria applicable to health-related substances in the Standard for Natural Mineral Waters</b>								
<b>Provision</b>	<b>ML (mg/L)</b>	<b>Min. applicable range (mg/L)</b>	<b>LOD (mg/L)</b>	<b>LOQ (mg/L)</b>	<b>Precision RSDR (%) No more than</b>	<b>Recovery (%)</b>	<b>Suggested methods meeting the criteria</b>	<b>Principle</b>
Mercury	0.001	0.00056	0.0002	0.0004	44	80-110	<del>EN 1483:2007</del> EN ISO 12846:2012 ISO 17852:2006 ISO 5666:1999 ISO 16590:2000 EPA 200.8	AAS Enrichment by amalgamation (III) AFS AAS after tin(II) chloride reduction Enrichment by amalgamation (III) ICP-MS

## **CODEX STAN 231**

### **GENERAL METHODS FOR THE DETECTION OF IRRADIATED FOODS**

<b>PROVISION</b>	<b>COMMODITY</b>	<b>METHOD</b>	<b>PRINCIPLE</b>	<b>TYPE</b>
Detection of irradiated Food	Food containing fat	EN 1784:1996 <u>2003</u>	Gas chromatographic analysis of hydrocarbons	II
Detection of irradiated food	Food containing fat	EN 1785: <del>1996</del> <u>2003</u>	Gas chromatographic / spectrophotometric analysis of 2/alkylcyclobutanones	III
Detection of irradiated food	Food containing silicate minerals	EN 13751:2002 <u>2009</u>	Photostimulated luminescence	III