

Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-PL-14316-01-00 according to DIN EN ISO/IEC 17025:2005

Period of validity: 29.06.2018 to 09.02.2021

Date of issue: 29.06.2018

Holder of certificate:

Royal International Inspection Laboratory (RIIL)
Sokhna Port, Lab Building
Ain El Sokhna, SUEZ 133
EGYPT

Tests in the fields:

selected chemical and physico-chemical tests in food, feeding stuff, plant material, food packaging, articles in daily use bottled and drinking water;
microbiological tests in food, feeding stuff, plant material, on surfaces in hygiene food surroundings, bottled and drinking water

Abbreviations used: see last page

Within the given testing field marked with *, the testing laboratory is permitted, without being required to inform and obtain prior approval from DAkkS, the free choice of standard or equivalent testing methods. The listed testing methods are exemplary.

The testing laboratory is permitted, without being required to inform and obtain prior approval from DAkkS, to use standards or equivalent testing methods listed here with different issue dates.

The testing laboratory maintains a current list of all testing methods within the flexible scope of accreditation.

1 Selected Chemical and Physico-Chemical Tests in Food, Feeding Stuff, Plant Material, Food Packaging and Articles in Daily Use

1.1 Determination of Ingredients, Residues and Contaminants in Food, Food Additives and Feeding Stuff using High Performance Liquid Chromatography with Standard Detectors (Fluorescence and UV)

DIN EN 14123
2008-03 Foodstuffs - Determination of aflatoxin B₁ and the sum of aflatoxin B₁, B₂, G₁ and G₂ in hazelnuts, peanuts, pistachios, figs and paprika powder - High performance liquid chromatographic method with post-column derivatisation and immunoaffinity column cleanup
(Modification: *here only for nuts*)

SOP-AT-02
2017-10 Determination of Ochratoxine in cereals and grains by HPLC (Purification of Ochratoxine with R-Biopharm RIDASCREEN® ochratoxin A, product code P14B ,P14/V16/22.09.14)

SOP-AT-04
2017-06 Determination of Caffeine, Benzoic acid, Sorbic acid and Ascorbic acid in soft drinks and food by HPLC

1.2 Determination of Ingredients, Residues and Contaminants in Food, Food Additives and Feeding Stuff using Gas Chromatography with Standard Detectors (GC-FID, GC- FPD-ECD and GC-MS)

ISO 5508
1990-09 Animal and vegetable fats and oils - Analysis by gas chromatography of methyl esters of fatty acids
(*withdrawn standard*)

ISO 5509
2000-04 Animal and vegetable fats and oils - Preparation of methyl esters of fatty acids
(*withdrawn standard*)

AOAC 985.22
1986 (1996) Organochlorine and organophosphorus pesticide residues. Gas chromatographic method
(Modification: *here only limited scope of pesticides to be determined in cereals and tea; reduced sample amount, rotary evaporation instead of Kuderna-Danish*)

AOAC 970.52
1970 (1996) Organochlorine and organophosphorus pesticide residues. Gas chromatographic method
(Modification: *here only limited scope of pesticides to be determined in fish, fish products and shrimp; reduced sample amount, rotary evaporation instead of Kuderna-Danish*)

1.3 Determination of Trace Elements in Food, Food Additives, Feeding Stuff, water, Ceramic and Glass Hollow Ware using Atomic Absorption Spectrometry *

AOAC 974.27 2005	Cadmium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Silver and Zinc in Water - Atomic Absorption Spectrophotometric Method
AOAC 975.03 2005	Metals in plants and pet foods. Atomic absorption spectrophotometric method (Modification: <i>here Determination of iron, copper, zinc, magnesium, lead and cadmium in plant materials</i>)
AOAC 999.11 2005 13 th Edition, 2006	Lead, Cadmium, Copper, Iron and zinc in foods. Atomic absorption spectrophotometry after dry ashing
SM 3111 B 2011	Metals by flame atomic absorption spectrometry part B: Direct Air-Acetylene Flame Method
ES 2060-01/2007	Release of lead and cadmium from ware in contact with food and beverages Part (1): Glass hollowware
ES 2060-02/2007	Permissible limits of lead and cadmium release from ceramic ware, glass ceramic ware in contact with food Part (2): Ceramic ware

1.4 Gravimetric Determination of Ingredients and Additives in Food, Feeding Stuff and Water

AOAC 941.12 First Action 1941 2006	Ash of Spices - Gravimetric Methods - Gravimetric Methods (Modification: <i>here also applicable for other food and feeding stuffs</i>)
SM 2540 C 2011	Solids part C: Total Dissolved Solids Dried at 180°C
SM 2540 D 2011	Solids part C: Total Suspended Solids Dried at 103–105°C

1.5 Determination of Ingredients, Additives and Indicators in Food, Feed and Water using Titration

ES 51-3/2016	Edible Hydrogenated Oils and Margarine - Part 3: Determination of Acid Value and Acidity
AOAC 947.05 1 st Act 1937(2005)	Lactic Acid in Milk and Milk Products
SM 4500 - Cl B 2011	Chloride part B: Argentometric Method

1.6 Determination of Ingredients, Additives and Indicators in Food and Feed using Manual and Auto. Kjeldahl

ES 2760-01/2006	Physical and chemical methods for testing fish and fishery Products - Part 1: Frozen fish. 5.2 Determination of total volatile basic nitrogen
AOAC 991.20 First Action 1991 Final Action 1994 2005	Nitrogen (Total) in milk. Kjeldahl methods (Modification: <i>here also applicable for other food and feeding stuffs</i>)

1.7 Determination of Ingredients, Additives and Indicators in Food and Feed by Ashing *

AOAC 920.100 First Action 1920 2005	Ash in tea (Modification: <i>here also applicable for other food and feeding stuffs</i>)
AOAC 920.153 First Action 1920 2005	Ash of meat (Modification: <i>here also applicable for other food and feeding stuffs</i>)
AOAC 923.03 First Action 1923 2005	Ash of flour. Direct method (Modification: <i>here also applicable for other food and feeding stuffs</i>)
AOAC 975.12 First Action 1975 2005	Ash (acid-insoluble) of cacao products (Modification: <i>here also applicable for other food and feeding stuffs</i>)

1.8 Determination of Ingredients, Additives and Indicators in Food and Feed by Fibertech

AOAC 920.102 Fiber (Crude) in tea
First Action 1920
2005

AOAC 920.169 Fiber (crude) in spices
First Action 1920
2005

AOAC 962.09 Fiber (crude) in animal feed and pet food.
1st Act 1962
Final Action 1971
Rev 1982 18th Edit, 2010

1.9 Determination of Ingredients, Additives and Indicators in Food and Feed by Refractometer

AOAC 921.08 Index of refraction of oils and fats
First Action 1921
2005

AOAC 932.14 Solids in syrups
First Action 1932
2005

1.10 Determination of Ingredients, Additives and Indicators in Food and Feed by Air Drying Oven

AOAC 950.46 Loss on Drying (Moisture) in meat
First Action 1950 (*Modification: here also applicable for other food and feeding*
2008 *stuffs*)

1.11 Determination of Ingredients, Additives and Indicators in Food and Feed by Extraction

AOAC 991.36 Fat (Crude) in meat and meat products.
First Action 1991
Final Action 1996
2006

AOAC 991.36 Fat (crude) in meat and meat products - Solvent extraction
1996 (submersion) method

1.12 Determination of Overall and Specific Migration for Packaging Material

DIN EN 1186-3 2002-07	Materials and articles in contact with foodstuffs - Plastics - Part 3: Test methods for overall migration into aqueous simulants by total immersion
DIN EN 1186-2 2002-07	Materials and articles in contact with food stuffs- Plastics - Part 2: Test methods for overall migration into olive oil by total emersion
21CFR177.1520 vol. 3 2014-04	Titel 21-Food and drugs, Chapter 1- Food and Drug administration, Department of Health and human services Subchapter B-Food for human consumption (continued)
BS EN 71-3:2013+A1:2014 2013-06	Safety of toys. Migration of certain elements
BS EN 71-3:1995/ BS 5665-3:1995 1995-06	Safety of toys. Specification for Migration of certain elements (withdrawn standard)

2 Microbiological Analysis

2.1 Cultural Microbiological Analysis of Bacteria in Food, Feeding Stuff, Plant Material and on Surfaces in Hygiene Food Surroundings *

ISO 4832 2006-02	Microbiology of food and animal feeding stuffs - Horizontal method for the enumeration of coliforms - Colony-count technique
ISO 4833-1 2013-12	Microbiology of the food chain - Horizontal method for the enumeration of microorganisms - Part 1: Colony count at 30 degrees C by the pour plate technique
ISO 6579 2017-07	Microbiology of food and animal feeding stuffs - Horizontal method for the detection of Salmonella spp.
ISO 6888-1 1999-02	Microbiology of food and animal feeding stuffs - Horizontal method for the enumeration of coagulase-positive staphylococci (Staphylococcus aureus and other species) - Part 1: Technique using Baird-Parker agar medium

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ISO 6888-1 AMD 1 2003-07	Microbiology of food and animal feeding stuffs - Horizontal method for the enumeration of coagulase-positive staphylococci (<i>Staphylococcus aureus</i> and other species) - Part 1: Technique using Baird-Parker agar medium; Amendment 1: Inclusion of precision date
ISO 7932 2004-06	Microbiology of food and animal feeding stuffs - Horizontal method for the enumeration of presumptive <i>Bacillus cereus</i> - Colony-count technique at 30 °C
ISO 7937 2004-08	Microbiology of food and animal feeding stuffs - Horizontal method for the enumeration of <i>Clostridium perfringens</i> - Colony-count technique
ISO 11290-1 1996-12	Microbiology of food and animal feeding stuffs - Horizontal method for detection and enumeration of <i>Listeria monocytogenes</i> - Part 1: Detection method (Modification: <i>Confirmation by Microbact 12L</i>)
ISO 11290-1 AMD 1 2004-10	Microbiology of food and animal feeding stuffs - Horizontal method for detection and enumeration of <i>Listeria monocytogenes</i> - Part 1: Detection method; Amendment 1: Modification of the isolation media and the haemolysis test, and inclusion of precision data
ISO 16649-2 2001-04	Microbiology of food and animal feeding stuffs - Horizontal method for the enumeration of β -glucuronidase-positive <i>Escherichia coli</i> - Part 2: Colony-count technique at 44 °C using 5-bromo-4-chloro-3-indolyl β -D-glucuronide
ISO 18593 2004-06	Microbiology of food and animal feeding stuffs - Horizontal methods for sampling techniques from surfaces using contact plates and swabs
ISO 21527-1 2008-07	Microbiology of food and animal feeding stuffs - Horizontal method for the enumeration of yeasts and moulds - Part 1: Colony count technique in products with water activity greater than 0,95 (Modification: <i>here only determination of yeasts; 3 days, 30 °C</i>)

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ISO 21527-2 2008-07	Microbiology of food and animal feeding stuffs - Horizontal method for the enumeration of yeasts and moulds - Part 2: Colony count technique in products with water activity less than or equal to 0,95
ISO 21528-2 2004-08	Microbiology of food and animal feeding stuffs - Horizontal methods for the detection and enumeration of Enterobacteriaceae - Part 2: Colony-count method
ISO 21872-1 2017-06	Microbiology of the food chain - Horizontal method for the determination of <i>Vibrio</i> spp. - Part 1: Detection of potentially enteropathogenic <i>Vibrio parahaemolyticus</i> , <i>Vibrio cholerae</i> and <i>Vibrio vulnificus</i>
ISO/TS 21872-2 2007-04	Microbiology of food and animal feeding stuffs - Horizontal method for the detection of potentially enteropathogenic <i>Vibrio</i> spp. - Part 2: Detection of species other than <i>Vibrio parahaemolyticus</i> and <i>Vibrio cholera</i> (Modification: <i>detection of Vibrio Alginolyticus</i>)
NMKL No. 68 5th Edition 2011	Enterococcus. Determination in foods and feeds.
NMKL No. 125 5th Edition 2005	Thermotolerant coliform bacteria and <i>Escherichia coli</i> . Enumeration in food and feed.
SOP-MB-03 2017-07	Enumeration of <i>Escherichia coli</i> in Foods (based on NMKL Method No. 125)

2.2 Cultural Microbiological Analysis of Bacteria in Drinking Water *

ISO 6222 1999 Last Review 2015	Water quality - Enumeration of culturable micro-organisms - Colony count by inoculation in a nutrient agar culture medium
APHA 22nd Edition Chapter 9222 B 2012	Standard Methods for the Examination of Water and Wastewater Title: Membrane Filter Technique for Members of the Coliform Group

APHA 22 nd Edition Chapter 9222D 2012	Standard Methods for the Examination of Water and Wastewater -Thermotolerant (Fecal) Coliform Membrane Filter Procedure (Modification: without Colilert-18)
ISO 19250 2010-07	Water quality - Detection of Salmonella spp.

3 Tests in Bottled and Drinking Water

3.1 Chemical Tests in Bottled and Drinking Water

AOAC 973.41 1st Act 1973:2005	pH of water
SM 2130 B 2011	Turbidity part B: Nephelometric Method
SM 2510 B 2011	Conductivity, part B: laboratory method
SM 4500 - NO2 B 2011	Nitrogen (Nitrite) part B: Colorimetric Method
SM 4500 - NO3 B 2011	Nitrogen (Nitrate) part B: Ultraviolet Spectrophotometric Screening Method

Abbreviations used:

AOAC	Association of Official Analytical Chemists
AMD	Amendment
ES	Egyptian Standard
EOS	Egyptian Official Standard
FDAM	Final draft ammendment
FDIS	Final Draft International Standard
IOOC	International Olive Oil Council
IEC	International Electrotechnical Commission
ISO	International Organization for Standardization
NMKL	Nordic Committee on Food Analysis
SM	Standard Methods For the Examination of Water and Wastewater™
SOP-lab name-xyz	In-house method of the RIIL laboratories