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Prepared by: Ch. Mohamed Kamal	Reviewed by: Ch. Mohamed Wageh	Approved by: Prof Dr. Ahmad Hanafi

SN	accredited test method / Issue date	Testing Title	Corresponding in-house SOP /Issue date	Approval date	Addition or Editing by/date
Section 1 Physical, physico-chemical and chemical analysis of Food, and Food Contact Materials, bottled and drinking water and Packaging and Article in Daily use					
Section 1.1 Sample preparation					
1	ISO 12966-2 2017-03	Animal and vegetable fats and oils - Gas chromatography of fatty acid methyl esters - Part 2: Preparation of methyl esters of fatty acids	SOP-TFA-19 20-06-2023	25-06-2023	MT 17-10-2023
Section 1.2 Determination of Ingredients, Additives and Contaminants in Food, and Food Contact Materials, using High Performance Liquid Chromatography with Standard Detectors (UV, DAD, FLD) *					
2	ISO 19343 2017-06	Microbiology of the food chain Detection and Quantification of Histamine in fish and fishery products - HPLC method	SOP-AT-03 2020-1	07-11-2020	MT 17-10-2023
3	DIN EN 14123 2008-03	Foodstuffs - Determination of aflatoxin B ₁ and the sum of aflatoxin B ₁ , B ₂ , G ₁ and G ₂ 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-01 2017-08	15-01-2020 Issue 03	MT 17-10-2023
4	Journal of Chemical and pharmaceutical Research, 2013, 5(10):409-414 ISSN: 0975-7384, CODEN (USA): JCPRC5.	Rapid assay of polycyclic aromatic hydrocarbon inedible oil by HPLC with FLD detection without cleanup.	SOP-AT-06 2020-10	25-10-2020	MT 17-10-2023



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5	DD CEN/TS 13130-13 2005-09	Materials and articles in contact with foodstuffs –Plastics substances subject to limitation – Part 13: Determination of 2,2-bis(4-hydroxyphenyl)propane(Biphenyl A) in food simulants (Modification: here applied to edible oil)	SOP-AT-05 2020-11	06-11-2020	MT 17-10-2023
6	GN-MC9521- 1+Rev+B+(Afla Oehra+ HPLC) by vicam - R.Biopharm P14/V16/22.09.14	Determination of Ochratoxin A in cereal by HPLC and immunoaffinity column clean-up	SOP-AT-02 2018-11	13-9-2017	MT 17-10-2023

7	Knauer Separation of Additives in soft drink, Method VFD0018J - Knauer Fast analyses of additives in soft drinks minimal sample preparation application note(VFD0009N), 10/08,updated 05/11 - Food control 13(2002)117- 123, Determination of benzoic acid and Sorbic acid in Brazilian food March 2002	Determination of additives (caffeine, benzoic acid,sorbic acid, ascorbic acid,) in soft drinks and food	SOP-AT-04 2017-06	15-11-2020	MT 17-10-2023
8	Vicam Instruction Manual #GN-MC9507-3 Rev.B	Determination of zearalenone in cereal grains by HPLC	SOP-AT-11 2020-10	25-9-2022 Issue 02	MT 17-10-2023
9	Vicam Instruction Manual #GN-MC9560-1 Rev. B.	Determination of deoxynivalenol (DON) in cereals by HPLC	SOP-AT-12 2020-10	25-9-2022 Issue 02	MT 17-10-2023

10	-Waters application note 720005217EN AG-PDF “analysis of Artificial Food Dyes Using Ultra Performance Liquid Chromatography and an Extended Wavelength Photo Diode Array Detector” October (2014) - Trop J Pharm Res, January 2016; 15(1): 181 “Determination of 8 Synthetic Food Dyes by Solid Phase Extraction and Reversed Phase High Performance Liquid Chromatography January (2016).	Detection and determination of artificial food dyes in beverages using HPLC	SOP-AT-07 2021-04	22-11-2022 Issue 02	MT 17-10-2023
11	J. Agric. Food Chem. 2006, 54, 3351–3356 3351. March 11, 2006.	Determination of tocopherols & tocotrienols inedible oil and fats by HPLC	SOP-AT-09 2021-08	25-9-2022 Issue 02	MT 17-10-2023
12	Jour.Chem. Soc. Pak Vol. 28, No. 3, 2006 - Phenomenex application note: TN-1028 2006	Detection and determination of para red and Sudan dyes in chili pepper products by HPLC	SOP-AT-08 2021-09	25-9-2022 Issue 02	MT 17-10-2023

13	PerkinElmer APPLICATION NOTE 012226_01 PKI “Analysis of Capsaicin and Dihydrocapsaicin in Chili Peppers Using HPLC System with PDA Detection” 2015	Determination of capsaicin in chili pepper products by HPLC	SOP-AT-10 2020-11	28-4-2023 Issue 02	MT 17-10-2023
14	Vicam Instruction Manual #GN-MC9512-3 Rev.B	Determination of aflatoxin M1 in powdered and liquid milk by HPLC	SOP-AT-13 2021-11	25-9-2022 Issue 02	MT 17-10-2023
15	CEN/TS 13130-27 2005	Materials and articles in contact with foodstuffs — Plastics substances subject to limitation, Part 27: Determination of 2,4,6-triamino-1,3,5-triazine in food simulants (Melamine).	SOP-FCM-06 2022-10	20-10-2022	MT 17-10-2023



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16	AOAC 977.20 1977	Determination of Sugars (Fructose, Glucose and Sucrose) in honey and Food Products using RI HPLC	SOP-AT-15 2022-09	16-09-2022	MT 17-10-2023
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Section 1.3
Determination of methyl esters of fatty acids in fats and oils using Gas Chromatography with Standard Detectors (GC-FID)

17	ISO 12966-4 2015-06	Animal and vegetable fats and oils - Gas chromatography of fatty acid methyl esters - Part 4: Determination by capillary Gas chromatography	SOP-TFA-19 20-06-2023	25-06-2023	MT 17-10-2023
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Section 1.4
Determination of Pesticide Residues in Food using Gas Chromatography with Mass Selective Detectors (MS/MS)

18	EN 15662 2018-05	Foods of plant origin - Multimethod for the determination of pesticide residues using GC and LC-based analysis following acetonitrile extraction/partitioning and clean-up by dispersive SPE - Modular QuEChERS-method	SOP-PRFC-01 2022-03	Rice validation 24-03-2022 Apple validation 24-03-2022 ((Cumin Validation 17-09-2023 (Implementation of L-PRFC-11))	MT 17-10-2023
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Section 1.5
Determination of Elements in Food, Feeding Stuffs and Food Contact Materials drinking and bottled Water, using Atomic Absorption Spectrometry (GF-AAS, F-AAS) *


19	ES 2060-01/ 2008-08	Release of lead and cadmium from ware in contact with food and beverages Part 1: Glass hollow ware	SOP-FCM-01 2022-05	25-04-2022	MT 17-10-2023
20	ES 2060-02/ 2007-06	Release of lead and cadmium from ware in contact with food and beverages Part 2: Ceramic ware	SOP-FCM-01 2022-05	25-04-2022	MT 17-10-2023
21	AOAC 974.27 2005	Cadmium, chromium, copper, iron, lead, magnesium, manganese, silver and zinc in Water - Atomic Absorption Spectrophotometric Method	SOP-TE-01 2022-06	30-05-2022	MT 17-10-2023

22	AOAC 975.03 2005	Metals in plants and pet foods. Atomic absorption spectrophotometric method. (Modification: here Determination of iron, copper, zinc, magnesium, lead and cadmium in food and feeding stuffs	SOP-TE-02 2022-10	09-01-2023	MT 17-10-2023
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23	EN 15764 2010	Food stuffs-Determination of trace elements -Determination of tin by flame and graphite furnace atomic absorption spectrometry (FAAS and GFAAS) after pressure digestion	SOP-TE-03 2022-10	Flame2 23-02-2023	MT 17-10-2023
24	AOAC 999.10 2005	Lead, cadmium, zinc, copper and iron in foods. Atomic absorption spectrophotometry after microwave digestion.	SOP-TE-03 2022-10	Flame1 25-10- 2022 Graphite 09-03-2023	MT 17-10-2023
25	AOAC 999.11 2005	Lead, cadmium, copper, iron and zinc in foods. Atomic absorption spectrophotometry after dry ashing.	SOP-TE- 02 2022-10	09-01-2023	MT 17-10-2023
26	SM 3111 B 2017	Metals by flame atomic absorption Spectrometry part B: Direct Air Acetylene Flame Method	SOP-TE- 01 2022-06	30-05-2022	MT 17-10-2023
27	EU10 2011-01	Determination of trace elements in plastic materials and articles in contact with foodstuffs	SOP-FCM-04 2022-08	23-08-2022	MT 17-10-2023

Section 1.6
Determination of Ingredients in Food and Feeding Stuffs, bottled and drinking water using Gravimetry *

28	DIN EN 1186-3 2022-08	Materials and articles in contact with foodstuffs -Plastics - Part 3: Test methods for overall migration into aqueous simulants by total immersion	SOP-FCM-02 2022-07 SOP-FCM-03 2022-08	23-08-2022	MT 17-10-2023
29	DIN EN 1186-2 2022-07	Materials and articles in contact with food stuffs Plastics - Part 2: Test methods for overall migration into olive oil by total immersion	SOP-FCM-02 2022-07	23-08-2022	MT 17-10-2023
30	AOAC 991.36 2006	Fat (crude) in meat and meat products.	SOP-CH-01 2017-08	02-03-2023	MT 17-10-2023
31	ES 51-6/ 2022-11	Determination of unsaponifiable matter in edible oils and margarine	SOP-CH-16 2021- 10	11-04-2023	MT 17-10-2023
32	AOAC 920.100 2005	Ash in tea (Modification: here also applicable for other food and feeding stuffs)	SOP-CH-05 2017-08	16-03-2023	MT 17-10-2023


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33	AOAC 920.102 2005	Fiber (Crude) in tea	SOP-CH-06 2017-08	28-05-2023	MT 17-10-2023
34	AOAC 920.153 2005	Ash of meat (Modification: here also applicable for other food and feeding stuffs)	SOP-CH-05 2017-08	16-03-2023	MT 17-10-2023
35	AOAC 920.169 2005	Fiber (crude) in spices	SOP-CH-06 2017-08	28-05-2023	MT 17-10-2023

Flame₁: Atomic Flame (Air/acetylene)

Flame₂: Atomic Flame(acetylene/Nitrous)

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36	AOAC 923.03 2005	Ash of flour. Direct method (Modification: here also applicable for other food and feeding stuffs)	SOP-CH-05 2017-08	16-03-2023	MT 17-10-2023
37	AOAC 941.12 2006	Ash of Spices - Gravimetric Methods - Gravimetric Methods (Modification: here also applicable for other food and feeding stuffs)	SOP-CH-05 2017-08	16-03-2023	MT 17-10-2023
38	AOAC 950.46 2008	Loss on Drying (Moisture) in meat (Modification: here also applicable for other food and feeding stuffs)	SOP-CH-04 2017-08	12-03-2023	MT 17-10-2023
39	AOAC 962.09 2010	Fiber (crude) in animal feed and pet food	SOP-CH-06 2017-08	28-05-2023	MT 17-10-2023
40	AOAC 975.12 2005	Ash (acid-insoluble) of cacao products (Modification: here also applicable for other food and feeding stuffs)	SOP-CH-05 2017-08	16-03-2023	MT 17-10-2023




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41	SM 2540 C 2017	Solids part C: Total Dissolved Solids Dried at 180°C	SOP-CH-23 2022-05	09-05-2023	MT 17-10-2023
42	SM 2540 D 2017	Solids part D: Total Suspended Solids Dried at 103-105 °C	SOP-CH-24 2022-05	09-05-2023	MT 17-10-2023

Section 1.7

Determination of Ingredients in Food and Feeding Stuffs using Titrimetry *

43	ES 51-3/2021	Edible Hydrogenated Oils and Margarine - Part 3: Determination of Acid Value and Acidity	SOP-CH-11 2021-10	13-02-2023	MT 17-10-2023
44	ES 63-10/ 2006-05	Physical and chemical methods for testing meat and meat products - Part 10: Determination of Thiobarbituric acid(TBA)	SOP-CH-12 2020-10	21-11-2020	MT 17-10-2023
45	ES 2760-1/2017 (correction 2018)	Physical and chemical methods for testing fish and fishery products - Part 1: Frozen fish. 5.2 Determination of total volatile basic nitrogen	SOP-CH-07 2017-08	05-06-2023	MT 17-10-2023
46	ES 2760-1/2017 (correction 2018)	Physical and chemical methods for testing fish and fishery products - Part 1: Frozen fish. 5.4 Determination of Thiobarbituric acid (TBA)	SOP-CH-12 2020-10	21-11-2020	MT 17-10-2023
47	AOAC 947.05 2005	Lactic Acid in Milk and Milk Products	SOP-CH-10 2017-08	24-07-2023	MT 17-10-2023
48	AOAC 965.33 2005	Peroxide value in Animal and vegetable fats & oil	SOP-CH-13 2020-08	23-02-2023	MT 17-10-2023
49	SM 4500 - Cl B 2017	Chloride part B: Argentometric Method	SOP-CH-20 2022-05	09-05-2023	MT 17-10-2023

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50	AOAC 991.20 2005	Nitrogen (Total) in milk. Kjeldahl methods (Modification: here also applicable for other food and feeding stuffs)	SOP-CH-08 2017-08	25-06-2023	MT 17-10-2023
51	ES 51-4/ 2021-08	Determination of iodine value in edible oils and margarine	SOP-CH-15 2021-10	04-06-2023	MT 17-10-2023
52	ES 51-5/ 2021-08 AOAC 920.160 2005	Determination of saponification value in edible oils and margarine	SOP-CH-14 2021-10	05-04-2023	MT 17-10-2023

Section 1.8
Determination of Ingredients in Food and Feeding Stuff using Refractometry

53	AOAC 921.08 2005	Index of refraction of oils and fats	SOP-CH-03 2017-08	21-02-2023	MT 17-10-2023
54	AOAC 932.14 2005	Solids in syrups	SOP-CH-02 2017-08	30-07-2023	MT 17-10-2023

Section 1.9
Determination of Ingredients and Pesticide Residues in Food using High Performance Liquid wit Mass Selective Detectors (MS/MS, HR-MS)

55	EN 15662 2018-05	Foods of plant origin - Multimethod for the determination of pesticide residues using GC- and LC-based analysis following acetonitrile extraction/partitioning and clean-up by dispersive SPE - Modular QuEChERS-method	SOP-PRFC-01 2022-03	Apple_Orbitrap Validation 24-03-2022 Rice_Altis Validation 08-05-2022 (Cumin Validation 17-09-2023 (Implementation of L-PRFC-11))	MT 17-10-2023
56	Based on QuPpe-AO V 3.2 2019-05	Detection and quantification of histamine in fish and fishery products - LC-MS/MS method	SOP-AT-14 2022-03	24-03-2022	MT 17-10-2023

Section 1.10
Determination of the nitrogen content in Food using Combustion Analysis FLASH Smart N/Protein

57	Application note 42196 2017	Determination of protein & nitrogen in food by flash smart elemental analyzer	SOP-CH-17 2022-03	25-06-2023	MT 17-10-2023
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Section 2 Microbiological Analysis

Section 2.1

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

58	ISO 4832 2006-02	Microbiology of food and animal feeding stuffs - Horizontal method for the enumeration of coliforms - Colony-count technique	SOP-MB-03 2018-12	18-12-2018	MT 17-10-2023
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59	ISO 4833-1 2022-01	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	SOP-MB-03 2018-12	18-12-2018	MT 17-10-2023
60	ISO 6579-1 2020-03	Microbiology of the food chain - Horizontal method for the detection, enumeration and serotyping of Salmonella spp. (Modification: here only detection)	SOP-MB-01 2018-03	01-03-2018	MT 17-10-2023
61	ISO 6888-1 2021-08	Microbiology of the food chain - Horizontal method for the enumeration of coagulase –positive Staphylococcus aureus	SOP-MB-03 2018-12	18-12-2018	MT 17-10-2023
62	ISO 7932 2020-08	Microbiology of food and animal feeding stuffs - Horizontal method for the enumeration of presumptive Bacillus cereus - Colony-count technique at 30 °C	SOP-MB-03 2018-12	18-12-2018	MT 17-10-2023
63	ISO 7937 2004-08	Microbiology of food and animal feeding stuffs - Horizontal method for the enumeration of Clostridium perfringens - Colony-count technique	SOP-MB-03 2018-12	18-12-2018	MT 17-10-2023

64	ISO 11290-1 2017-05	Microbiology of the food chain - Horizontal method for the detection and enumeration of <i>Listeria monocytogenes</i> and of <i>Listeria</i> spp. - Part 1: Detection method (Modification: Confirmation by Microbact 12L)	SOP-MB-01 2018-03	01-03-2018	MT 17-10-2023
65	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	SOP-MB-03 2018-12	18-12-2018	MT 17-10-2023
66	ISO 18593 2018-06	Microbiology of the food chain - Horizontal methods for surface sampling	SOP-MB-03 2018-12	18-12-2018	MT 17-10-2023
67	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: here only determination of yeasts; 3 days, 30 °C)	SOP-MB-03 2018-12	18-12-2018	MT 17-10-2023

68	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	SOP-MB-03 2018-12	18-12-2018	MT 17-10-2023
69	ISO 21528-2 2017-06	Microbiology of food and animal feeding stuffs - Horizontal methods for the detection and enumeration of Enterobacteriaceae - Part 2: Colony-count method	SOP-MB-03 2018-12	18-12-2018	MT 17-10-2023

70	ISO 21567 2004-11	Microbiology of food and animal feeding stuffs - Horizontal method for the detection of Shigella spp.	SOP-MB-01 2018-03	19-02-2018	MT 17-10-2023
71	ISO 21872-1 2023-02	Microbiology of the food chain -Horizontal method for the determination of Vibrio spp. - Part 1: Detection of potentially enter pathogenic Vibrio parahaemolyticus, Vibrio cholerae and Vibrivulnificus	SOP-MB-01 2018-03	20-09-2017	MT 17-10-2023
72	ISO/TS 21872-2 2020-10	Microbiology of food and animal feeding stuffs - Horizontal method for the detection of potentially enteropathogenic Vibrio spp. - Part 2: Detection of species other than Vibrio parahaemolyticus and Vibrio cholera (Modification: detection of Vibrio alginolyticus)	SOP-MB-01 2018-03	20-09-2017	MT 17-10-2023
73	NMKL No. 68 5th Edition 2011	Enterococcus. Determination in foods and feeds.	SOP-MB-03 2018-12	18-12-2018	MT 17-10-2023
74	NMKL No. 125 4th Edition 2005	Thermotolerant coliform bacteria and Escherichia coli. Enumeration in food and feed.	SOP-MB-03 2018-12	18-12-2018	MT 17-10-2023
75	SOP-MB-03 2018-12	Enumeration of Escherichia coli in foods (based on NMKL Method No. 125)	SOP-MB-03 2018-12	18-12-2018	MT 17-10-2023
76	ISO 10272-1 2023-01	Microbiology of the food chain - Horizontal method for the detection and enumeration of Campylobacter spp. - Part 1: Detection method	SOP-MB-01 2018-03	20-05-2022	MT 17-10-2023
77	ISO 22964: 2017-04	Microbiology of the food chain — Horizontal method for the detection of cronobacter spp.	SOP-MB-01 2018-03	28-09-2023	MT 17-10-2023

Section 2.2
Cultural Microbiological Analysis of Bacteria in Drinking Water *

78	ISO 6222 1999-05	Water quality - Enumeration of culturable micro-organisms – Colony count by inoculation in a nutrient agar culture medium	SOP-MB-02 2018-12	18-12-2018	MT 17-10-2023
79	ISO 19250 2010-07	Water quality - Detection of Salmonella spp.	SOP-MB-02 2018-12	30-12-2012	MT 17-10-2023
80	SM 9222 B 2017-01	Standard Methods for the Examination of Water and Wastewater Title: Membrane Filter Technique for Members of the Coliform Group	SOP-MB-02 2018-12	18-12-2018	MT 17-10-2023
81	SM 9222 D 2017-01	Standard Methods for the Examination of Water and Wastewater - Thermotolerant (Fecal) Coliform Membrane Filter Procedure (Modification: <i>without Colilert-18</i>)	SOP-MB-02 2018-12	18-12-2018	MT 17-10-2023

Section 3
Determination of Salmonella in Food and Feeding Stuffs using Real-Time-PCR

82	Congen Art. No. F5166 2019-07	SureFast ® Salmonella species/enteritidis/typhimurium 4plex	SOP-MB-04 2023-09	23-05-2022	MT 17-10-2023
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Section 4 Chemical Tests in Bottled and Drinking Water

83	AOAC 973.41 2005	pH of water	SOP-CH-09 2017-08	13-02-2023	MT 17-10-2023
84	SM 2130 B 2017	Turbidity part B: Nephelometric Method	SOP-CH-19 2022-05	12-03-2023	MT 17-10-2023
85	SM 2510 B 2017	Conductivity part B: laboratory method	SOP-CH-18 2022-05	11-04-2023	MT 17-10-2023
86	SM 4500 - NO2 B 2017	Nitrogen (Nitrite) part B: Colorimetric Method	SOP-CH-22 2022-05	13-06-2023	MT 17-10-2023



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87	SM 4500 - NO3 B 2017	Nitrogen (Nitrate) part B: Ultraviolet Spectrophotometric Screening Method	SOP-CH-21 2022-05	13-06-2023	MT 17-10-2023
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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.