

Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-PL-19977-01-00 according to ISO/IEC 17025:2017

Period of validity: 25.05.2020 to 24.05.2025

Date of issue: 25.05.2020

Holder of certificate:

**Eurofins Food Testing Hong Kong Limited
Flat A, 13/F Hover Industrial Building,
26-38 Kwai Cheong Road
KWAI CHUNG, NT, HONG KONG**

Tests in the fields:

microbiological analysis of food, feeding stuff, on fitment and utensils in food areas, ambient air in food areas, water (surface water, waste water, process/industrial water, water from cooling plants, bath water and fish tank water) as well as drinking water, drinking water when frozen and mineral- and table water

pH-measurement of water (surface water, waste water, process/industrial water, water from cooling plants, bath water and fish tank water) as well as drinking water, drinking water when frozen and mineral- and table water

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 Food, feeding stuff, on fitment and utensils in food areas and ambient air in food areas

1.1 Cultural microbiological analysis of bacteria in food and feeding stuff *

BS EN 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 11290-1/A1 2017-05	Microbiology of the food chain - Horizontal method for the detection and enumeration of <i>Listeria monocytogenes</i> and of <i>Listeria spp.</i> - Part 1: Detection method; (Amendment 1: <i>Modification of the isolation media and the haemolysis test, and inclusion of precision data</i>) (according to Clause 9.5 - Report as <i>Listeria spp.</i> also)
ISO 11290-2/A1 2017-05	Microbiology of the food chain - Horizontal method for the detection and enumeration of <i>Listeria monocytogenes</i> and of <i>Listeria spp.</i> - Part 2: Enumeration method; (Amendment 1: <i>Modification of the enumeration medium</i>)
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 degrees C using 5-bromo-4-chloro-3-indolyl β -D-glucuronide
ISO 16654 2001-05	Microbiology of food and animal feeding stuffs - Horizontal method for the detection of <i>Escherichia coli</i> O157 (Modification: <i>also Escherichia coli</i> O157:H7)
ISO 21528-2 2017-06	Microbiology of the food chain - Horizontal method for the detection and enumeration of Enterobacteriaceae - Part 2: Colony-count technique
ISO 21872-1 2017-06	Microbiology of the food chain - Horizontal method for the determination of <i>Vibrio spp.</i> - Part 1: Detection of potentially enteropathogenic <i>Vibrio parahaemolyticus</i> , <i>Vibrio cholerae</i> and <i>Vibrio vulnificus</i>
EN ISO 6888-1/A1 2003-07	Microbiology of food and animal feeding stuffs - Horizontal method for the enumeration of coagulase-positive <i>staphylococci</i> (<i>Staphylococcus aureus</i> and other species) - Part 1: Technique using Baird-Parker agar medium; (Amendment 1: <i>Inclusion of precision data</i>)
BS EN ISO 21567 2004-11	Microbiology of foods and animal feeding stuffs. Horizontal method for the detection of <i>Shigella spp</i>

Annex to the accreditation certificate D-PL-19977-01-00

<p>US-FDA BAM 8th Edition Revision A/1998 Chapter 4A 2016-08</p>	<p>Bacteriological Analytical Manual - Methods for Specific Pathogens <i>Diarrheagenic Escherichia coli</i></p>
<p>US FDA BAM 8th Edition Revision A/1998 Chapter 3 2001-01</p>	<p>Bacteriological Analytical Manual - General Guidelines/Procedures Aerobic Plate Count (Modification: $30 \pm 1^{\circ}\text{C}$ for ready-to-eat food or $37 \pm 1^{\circ}\text{C}$ for edible Ice)</p>
<p>US FDA BAM 8th Edition Revision A/1998 Chapter 4 2017-07</p>	<p>Bacteriological Analytical Manual - Methods for Specific Pathogens Enumeration of <i>Escherichia coli</i> and the Coliform Bacteria - I. Conventional Method for coliforms, fecal coliforms and <i>E. coli</i> - G: Solid medium Method – Coliforms</p>
<p>US-FDA BAM 8th Edition Revision A/1998 Chapter 5 2016-08</p>	<p>Bacteriological Analytical Manual - Methods for Specific Pathogens <i>Salmonella</i></p>
<p>US-FDA BAM 8th Edition Revision A/1998 Chapter 10 2017-03</p>	<p>Bacteriological Analytical Manual - Methods for Specific Pathogens Detection and Enumeration of <i>Listeria monocytogenes</i> in Foods</p>
<p>US FDA BAM 8th Edition Revision A/1998 Chapter 12 2016-03</p>	<p>Bacteriological Analytical Manual - Methods for Specific Pathogens <i>Staphylococcus aureus</i></p>
<p>US FDA BAM 8th Edition Revision A/1998 Chapter 14 2012-02</p>	<p>Bacteriological Analytical Manual - Methods for Specific Pathogens <i>Bacillus cereus</i> (Modification: <i>biochemical Confirmation by API CHB</i>)</p>
<p>US-FDA BAM 8th Edition Revision A/1998 Chapter 16 2001-01</p>	<p>Bacteriological Analytical Manual - Methods for Specific Pathogens <i>Clostridium perfringens</i></p>

<p>AOAC Method Number 991.14 Final Action 1994 Revised: March 2002</p>	<p>Coliform and <i>Escherichia coli</i> Counts in Foods</p>
<p>AOAC Method Number 998.08 Final Action 2002</p>	<p>Confirmed <i>Escherichia coli</i> Counts in Poultry, Meats, and Seafood</p>
<p>AOAC Method Number 2000.14 First Action 2000</p>	<p>Reveal of <i>E. coli</i> O157:H7 test in selected foods and environmental swabs (20-Hours Method)</p>
<p>AOAC Method Number 2003.07 Final Action 2006</p>	<p>Enumeration of <i>Staphylococcus aureus</i> in selected types of processed and prepared foods (Modification: <i>also for feeding stuff</i>)</p>
<p>AOAC Method Number 2003.08 Final Action 2003</p>	<p>Enumeration of <i>Staphylococcus aureus</i> in selected dairy foods: Collaborative Study (Modification: <i>also for feeding stuff</i>)</p>
<p>AOAC Method Number 2003.11 Final Action 2007</p>	<p>Enumeration of <i>Staphylococcus aureus</i> in selected meat, seafood and poultry (Modification: <i>also for feeding stuff</i>)</p>
<p>AOAC Method Number 2014.01 Final Action 2017</p>	<p><i>Salmonella</i> in selected foods (Modification: <i>also for feeding stuff</i>)</p>
<p>APHA 5th Edition Section I /Page 413 to 420 2015-05</p>	<p>APHA Compendium of Methods for the Microbiological Examination of Foods 2015, Chapter 34 - Pathogenic <i>Escherichia coli</i></p>

1.2 Cultural microbiological analysis of bacteria and fungi in on fitment and utensils in food areas and ambient air in food areas *

<p>ISO 11290-2/A1 2017-05</p>	<p>Microbiology of the food chain -- Horizontal method for the detection and enumeration of <i>Listeria monocytogenes</i> and of <i>Listeria spp.</i> - Part 2: Enumeration method (Amendment 1: <i>Modification of the enumeration medium</i>)</p>
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Annex to the accreditation certificate D-PL-19977-01-00

<p>ISO 16649-2 2001-04</p>	<p>Microbiology of food and animal feeding stuffs - Horizontal method for the enumeration of beta-glucuronidase-positive <i>Escherichia coli</i> - Part 2: Colony-count technique at 44 degrees C using 5-bromo-4-chloro-3-indolyl beta-D-glucuronide (Modification: <i>also for fitment and utensils in food areas</i>)</p>
<p>ISO 21528-2 2017-06</p>	<p>Microbiology of the food chain - Horizontal method for the detection and enumeration of Enterobacteriaceae - Part 2: Colony-count technique</p>
<p>ISO 21872-1 2017-06</p>	<p>Microbiology of the food chain - Horizontal method for the determination of <i>Vibrio spp.</i> - Part 1: Detection of potentially enteropathogenic <i>Vibrio parahaemolyticus</i>, <i>Vibrio cholerae</i> and <i>Vibrio vulnificus</i> (Modification: <i>also for fitment and utensils in food areas</i>)</p>
<p>BS EN ISO 21567 2004-11</p>	<p>Microbiology of foods and animal feeding stuffs. Horizontal method for the detection of <i>Shigella spp</i> (Modification: <i>also for fitment and utensils in food areas</i>)</p>
<p>AOAC Method Number 991.14 Final Action 1994 Revised: March 2002</p>	<p>Coliform and <i>Escherichia coli</i> Counts in Foods (Modification: <i>also for fitment and utensils in food areas</i>)</p>
<p>AOAC Method Number 2000.14 First Action 2000</p>	<p>Reveal for <i>E. coli O157:H7</i> Test in Selected Foods and Environmental Swabs (20-Hours Method)</p>
<p>US-FDA BAM 8th Edition Revision A/1998 Chapter 4A 2016-08</p>	<p>Bacteriological Analytical Manual - Methods for Specific Pathogens Diarrheagenic <i>Escherichia coli</i></p>
<p>US-FDA BAM 8th Edition Revision A/1998 Chapter 5 2016-08</p>	<p>Bacteriological Analytical Manual - Methods for Specific Pathogens <i>Salmonella</i></p>
<p>US-FDA BAM 8th Edition Revision A/1998 Chapter 3 2001-01</p>	<p>Bacteriological Analytical Manual - General Guidelines/Procedures Aerobic Plate Count (Modification: <i>35 ± 1°C for fitment and utensils in food areas</i>)</p>

Annex to the accreditation certificate D-PL-19977-01-00

US-FDA BAM 8 th Edition Revision A/1998 Chapter 4 2017-07	Bacteriological Analytical Manual - Methods for Specific Pathogens Enumeration of <i>Escherichia coli</i> and the Coliform Bacteria - I. Conventional Method for coliforms, fecal coliforms and <i>E. coli</i> - G: Solid medium Method - Coliforms (Modification: <i>also for fitment and utensils in food areas</i>)
US-FDA BAM 8 th Edition Revision A/1998 Chapter 16 2001-01	Bacteriological Analytical Manual - Methods for Specific Pathogens <i>Clostridium perfringens</i> (Modification: <i>also for fitment and utensils in food areas</i>)
US-FDA BAM 8 th Edition Revision A/1998 Chapter 10 2017-03	<i>Bacteriological Analytical Manual</i> - Methods for Specific Pathogens Detection and Enumeration of <i>Listeria monocytogenes</i> in Foods and Environmental Samples
US-FDA BAM 8 th Edition Revision A/1998 Chapter 12 2016-03	Bacteriological Analytical Manua - Methods for Specific Pathogens <i>Staphylococcus aureus</i> (Modification: <i>also for fitment and utensils in food areas</i>)
APHA 5 th Edition Section I / Page 37 2015-05	Compendium of Methods For The Microbiological Examination of Foods - Aerobic Colony Count in environmental air using Plate Count Method
APHA 5 th Edition Section I / Page 37 2015-05	Compendium of Methods For The Microbiological Examination of Foods - Yeasts and Molds Count in environmental air sample using Plate Count Method
APHA 5 th Edition Section I /Page 413 to 420 2015-05	APHA Compendium of Methods for the Microbiological Examination of Foods 2015, Chapter 34 - Pathogenic <i>Escherichia coli</i>

1.3 Cultural microbiological analysis of Yeasts and Moulds in food and feeding stuff *

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
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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

US FDA BAM
8th Edition
Revision A/1998
Chapter 18
2001-04
Bacteriological Analytical Manual - Methods for Specific Pathogens Yeasts, Molds and Mycotoxins
(Deviation: *without analysis of mycotoxins*)

2 Water (surface water, waste water, process/industrial water, water from cooling plants, bath water and fish tank water) as well as drinking water, drinking water when frozen and mineral- and table water

2.1 Cultural microbiological analysis of bacteria in water for consumption (drinking water, drinking water when frozen and mineral- and table water) *

ISO 9308-1/A1
2016-12
Water quality - Enumeration of *Escherichia coli* and coliform bacteria - Part 1: Membrane filtration method for waters with low bacterial background flora

ISO 11731
2017-05
Water quality - Enumeration of *Legionella*

EN ISO 16266
2006-04
Water quality - Detection and enumeration of *Pseudomonas aeruginosa* - Method by membrane filtration

APHA
22nd Edition
Chapter 9222B/
Page 9-78 to 9-82
Section F1
2012
Standard Methods For The Examination of Water and Wastewater - Standard Total Coliform Membrane Filter Procedure

APHA
22nd Edition
Chapter 9260H/
Page 9-160 to 9-166
2012
Standard Methods For The Examination of Water and Wastewater - *Vibrio cholerae* and *Vibrio parahaemolyticus* Detection in Water (*here: only Vibrio cholera*)

APHA
22nd Edition
Chapter 9215B/
Page 9-52 to 9-54
2012
Standard Methods For Examination of Water and Wastewater - Heterotrophic Plate Count, Plate Count Method (35°C for 48 hours and 20°C-28°C for 5 days)

Annex to the accreditation certificate D-PL-19977-01-00

APHA
22nd Edition
Chapter 9215D/
Page 9-56
2012

Standard Methods For Examination of Water and Wastewater -
Heterotrophic Plate Count, Membrane Filtration Method
(35°C for 48 hours and 20°C-25°C for 5 days)

APHA
22nd Edition
Chapter 9222B and 9222G
Page 9-78 to 9-83 and 9-90
Section F1
2012

Standard Methods For The Examination of Water and Wastewater -
Thermotolerant (Fecal) Coliform Membrane Filter Procedure

APHA
22nd Edition
Chapter 9222B/
Page 9-78 to 9-83
and
Chapter 9222G
Page 9-89 to 9-90
2012

Standard Methods For The Examination of Water and Wastewater -
Membrane Filtration Method followed by *E. coli* Partition Method

2.2 Cultural microbiological analysis of bacteria in water (surface water, waste water, process/industrial water, water from cooling plants, bath water and fish tank water) as well as drinking water, drinking water when frozen and mineral- and table water *

ISO 9308-1/A1
2016-12

Water quality - Enumeration of *Escherichia coli* and coliform bacteria - Part 1: Membrane filtration method for waters with low bacterial background flora
(Modification: *except surface water and shallow well waters*)

ISO 11731
2017-05

Water quality - Enumeration of *Legionella*

EN ISO 16266
2006-04

Water quality - Detection and enumeration of *Pseudomonas aeruginosa* - Method by membrane filtration

AS/NZS 3896
2017

Waters - Examination for *Legionella spp.* Including *Legionella pneumophila*

APHA
22nd Edition
Chapter 9222B/
Page 9-78 to 9-82
2012

Standard Methods For The Examination of Water and Wastewater -
Standard Total Coliform Membrane Filter Procedure

Annex to the accreditation certificate D-PL-19977-01-00

APHA
22nd Edition
Chapter 9260H/
Page 9-160 to 9-166
2012

Standard Methods For The Examination of Water and Wastewater -
Vibrio cholerae and *Vibrio parahaemolyticus* Detection in Water

APHA
22nd Edition
Chapter 9215B/
Page 9-52 to 9-54
2012

Standard Methods for the Examination of Water and Wastewater -
Heterotrophic Plate Count, Plate Count Method (35°C for 48 hours
and 20°C-28°C for 5 days)

APHA
22nd Edition
Chapter 9215D/
Page 9-56
2012

Standard Methods For The Examination of Water and Wastewater -
Heterotrophic Plate Count, Membrane Filtration Method
(35°C for 48 hours and 20°C-25°C for 5 days)

APHA
22nd Edition
Chapter 9222D/
Page 9-85 to 9-87
2012

Standard Methods For The Examination of Water and Wastewater -
Thermotolerant (Fecal) Coliform Membrane Filter Procedure

APHA
22nd Edition
Chapter 9222D/
Page 9-85 to 9-87
and
Chapter 9222G
Page 9-89 to 8-90
2012

Standard Methods For The Examination of Water and Wastewater -
Membrane Filtration Method followed by *E. coli* Partition Method

2.3 Determination of pH in Water (surface water, waste water, process/industrial water, water from cooling plants, bath water and fish tank water) as well as drinking water, drinking water when frozen and mineral- and table water

BS EN ISO 10523
2012-04

Water quality - Determination of pH

Abbreviations used:

AOAC	Association of Analytical Communities
APHA	American Public Health Association
BS	British Standard
EHK	house method Eurofins Hong Kong
EN	European Standard
FDA	Food and Drug Administration
IEC	International Electrotechnical Commission
ISO	International Organization for Standardization
US-FDA BAM	Bacteriological Analytical Manual of the U.S. Food & Drug Administration