



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

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BIOLOGICAL

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In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests in the analyte categories identified below:

<u>ALS Method Code</u>	<u>Matrices</u>	<u>Parameter/Analyte</u>	<u>Reference(s)</u>
MF01	Food, Feed, Swab	Standard Plate Count at 22°C, 30°C and 37°C in Food Products and Environmental Swab by Pour Plate Technique	USFDA/BAM Ch. 3, 2001
MF02	Food, Feed, Swab	Enumeration of Total Coliform in Food, Animal Feeding Stuffs and Swab by Most Probable Number (MPN) Technique	ISO 4831:2006
MF02-A	Food, Feed, Swab	Enumeration of Faecal (Thermotolerant) Coliform in Food, Animal Feeding Stuffs and Swabs by Most Probable Number (MPN) Technique	USFDA/BAM Ch. 4; ISO 7251:2005
MF02-B	Food, Feed, Swab	Enumeration of <i>Escherichia coli</i> (<i>E. coli</i>) in Food, Animal Feeding Stuffs and Swab by Most Probable Number (MPN) Technique	USFDA/BAM Ch. 4; ISO 7251:2005
MF02-C	Food, Feed, Swab	Enumeration of Coliforms in Food, Animal Feeding Stuffs and Swabs by Colony Count Technique	USFDA/BAM Ch. 4; ISO 4832:2006
MF02-D	Food, Feed, Swab	Enumeration of <i>Escherichia coli</i> (<i>E. coli</i>) in Food, Animal Feeding Stuffs and Swabs by Pour Plate Method	CMMEF Ch. 9, APHA 5 th Edition
MF04	Food, Feed, Swab	Detection of <i>Salmonella</i> spp. in Foods, Animal Feeding Stuffs and Swabs	ISO 6579-1:2017
MF04-A	Food, Feed, Swab	Confirmation of <i>Salmonella</i> spp.	ISO 6579-1:2017
MF05	Food, Feed, Swab	Enumeration of <i>Staphylococcus aureus</i> (Coagulase Positive <i>Staphylococci</i>) in Food, Animal Feeding Stuffs and Swabs	ISO 6888-1:1999; A2:2018

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MF06-A	Food, Feed, Swab	Enumeration of <i>Enterococci</i> in Foods, Animal Feeding Stuffs and Swabs	CMMEF Ch. 10, APHA 5th Edition, 2015
MF07	Food Feed	Detection of <i>Campylobacter</i> spp. in Food and Animal Feeding Stuffs	ISO 10272-1:2017
MF08	Food, Feed, Swab	Detection of <i>Vibrio parahaemolyticus</i> and <i>Vibrio cholerae</i> in Food, Animal Feeding Stuffs and Swabs	ISO 21872-1:2017
MF09	Food, Feeds, Swab	Detection of <i>Listeria monocytogenes</i> and <i>Listeria</i> spp. in Foods, Animal Feeding Stuffs and Swabs	ISO 11290-1:2017
MF10	Food, Feed, Swab	Enumeration of Presumptive <i>Bacillus cereus</i> in Food, Animal Feeding Stuffs and Swab by Colony Count Technique	ISO 7932:2004
MF11	Food, Feed, Swab	Enumeration of <i>Clostridium perfringens</i> in Food, Animal Feeding Stuffs and Swabs	ISO 7937:2004; USFDA/BAM Ch. 16
MF12	Food, Feeds, Swab	Enumeration of Yeast and Molds by Colony Count Technique	ISO 21527-1:2008
MF13	Food, Feeds, Swab	Enumeration of <i>Enterobacteriaceae</i> in Food, Animal Feeding Stuffs and Swabs	ISO 21528-2:2017
MF14	Food, Feed	Detection of <i>E. coli</i> O157:H7 in Foods and Animal Feeding Stuffs by Cultivation	USFDA/BAM Ch. 4A (Modified); ISO 16654:2001
MF15	Canned, Bottled Goods	Commercial Sterility	AOAC 972.44
MF16	Packaging	Microbiological Examination of Paper and Board with Direct Contact with Food	ISO 8784-1:2014
MF17	Air	Microbiological Examination of Environmental Samples (Settle Plate)	In-house Method
MF19	Food, Feed, Swab	Enumeration of Beta-Glucuronidase-Positive <i>Escherichia coli</i> (<i>E. coli</i>)	ISO 16649-2:2001
MF20	Food, Feed, Swab	Detection of <i>Escherichia coli</i> (<i>E. coli</i>) in Foods, Animal Feeding Stuffs and Environmental Samples	ISO 7251: 2005
MF24	Food	Enumeration of Mesophilic Lactic Acid Bacteria by Colony Count Technique at 30°C	ISO 15214:1998
MF27	Food, Feed, Swab	Enumeration of <i>Listeria</i> species and <i>L. monocytogenes</i> in Food, Animal Feeding Stuffs, and Environmental Samples	ISO 11290-2:2017
MF31	Food, Feed, Swab	Enumeration of Presumptive <i>Pseudomonas</i> spp. in Food, Animal Feeding Stuffs, and Swabs	BS EN ISO 13720:2010

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MF32	Food, Feed, Swab	Enumeration of Sulfite-Reducing Clostridia in Foods, Animal Feeding Stuffs and Swabs by Colony Count Technique	BS ISO 15213:2003
MF33	Food	Enumeration of <i>Aeromonas</i> spp. in Foods by Colony Count Technique	American Society for Microbiology, pp. 249-253, Vol. 53 No. 2
MF34	Air Quality	Enumeration of Microbiological Contamination in Air by Impaction Method	In-house Method
MF37	Food, Feed, Swab	Enumeration of Aerobic Plate Count in Foods, Animal Feeding Stuffs, and Environmental Swabs (Rehydrated Media Aerobic Count Plate Method)	AOAC 990.12
MF38	Food, Feed, Swab	Enumeration of Coliform Count in Foods, Animal Feeding Stuffs, and Environmental Swabs (Rehydrated Media Coliform Count Plate Method)	AOAC 989.10, AOAC 991.14
MF39	Food, Feed, Swab	Enumeration of Enterobacteriaceae in Foods, Animal Feeding Stuffs and Environmental Swabs (Rehydrated Media Enterobacteriaceae Count Plate)	AOAC 2003.01
MF40	Food, Swab	Enumeration of Yeast and Moulds in Foods and Environmental Swab (Rehydrated Media Yeast and Moulds Count Plate)	AOAC 997.02
MF41	Food, Feed, Swab	Enumeration of <i>Staphylococcus aureus</i> in Foods, Animal Feeding Stuffs and Environmental Swab (Rehydrated Media Stph Express Count Plate Method)	AOAC 2003.07, AOAC 2003.08, AOAC 2003.11
MS001	Soil, Sediments Sludge	Detection of <i>Salmonella</i> spp. in Soil	AS/NZS 4276.14:1995
MS002	Soil, Sediments Sludge	Enumeration of Aerobic Bacteria in Soil, Sediments and Sludge by Pour Plate Method	FAO Soil Bulletin 7
MS003	Soil, Sediments Sludge	Enumeration of Coliforms in Soil, Sediments and Sludge by Colony Count Technique	ISO 4832:2006
MS004	Soil, Sediments Sludge	Enumeration of Faecal (Thermotolerant) Coliform and <i>Escherichia coli</i> in Soil, Sludge and Sediments by Colony Count Technique	ISO 4832:2006 with 2009 corrigendum; ISO 7251:2005
MS020	Sludge	Helminths Ova in Sludge	WHO-EM/CEH/121/E Ch. 7
MS020-V	Sludge	Enumeration of Viable Helminth Ova in Sludge	WHO-EM/CEH/121/E Ch. 8
MW002	Water	Enumeration of Heterotrophic Plate Count in Water by Pour Plate Method	AS/NZS 4276.3.1:2007; SM 9215B, APHA 23 rd Edition, 2017

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MW004	Water	Enumeration of Coliforms and <i>Escherichia coli</i> – Estimate of Most Probable Number (MPN) Using Enzyme Hydrolysable Substrates (Colilert 18 / Quanti-Tray)	SM 9223 B, APHA 23 rd Edition, 2017
MW005	Water	Enumeration of Total Coliform by Most Probable Number (MPN) Method (APHA 9221 B)	SM 9221 B, APHA 23 rd Edition, 2017
MW006	Water	Enumeration of <i>E. coli</i> in Water by Membrane Filtration Method	AS/NZS 4276.7:2007
MW006	Water	Enumeration of Thermotolerant (Faecal) Coliforms in Water by Membrane Filtration Method	AS/NZS 4276.7:2007
MW007	Water	Enumeration of Total Coliforms by MF Technique	AS/NZS 4276.5:2007
MW008	Water	Enumeration of <i>E. coli</i> in Water by MPN Technique	AS/NZS 4276.6:2007
MW008	Water	Enumeration of Thermotolerant (Faecal) Coliform in Water by MPN Technique	AS/NZS 4276.6:2007
MW009	Water	Enumeration of Total Coliforms in Water by Most Probable Number (MPN) Technique	AS/NZS 4276.6:2007
MW010	Water	Enumeration of <i>Pseudomonas aeruginosa</i> in Water by Membrane Filtration (MF) Technique	AS/NZS 4276.13:2008
MW011	Water	Enumeration of <i>Pseudomonas</i> in Water by Membrane Filtration (MF) Technique	AS/NZS 4276.11:1995
MW013	Water	Enumeration of Faecal <i>Streptococci</i> in Water by Membrane Filtration (MF) Technique	SM 9230 C, APHA 23 rd Edition, 2017
MW014	Water	Enumeration of Faecal <i>Streptococci</i> in Water by Most Probable Number (MPN) Technique	AS/NZS 4276.8:1995
MW020	Water	Helminths Ova in Wastewater	WHO-EM/CEH/121/E Ch. 7
MW020-V	Water	Enumeration of Viable Helminth Ova in Wastewater	WHO-EM/CEH/121/E Ch. 8
MW021SA	Water, Swab	Enumeration of <i>Legionella</i> by Cultivation	ISO 11731:2017
MW022	Water	Detection of <i>Salmonella</i> spp. in Water	ISO 19250:2010
MW023	Water	Enumeration of <i>Enterococci</i> spp. in Water by Membrane Filtration (MF) Technique	AS/NZS 4276.9:2007
MW030	Water	Enumeration of Yeast and Moulds in Water by Pour Plate Technique	SM 9610 B & C, APHA 23 rd Edition, 2017
MW032	Water	Enumeration of <i>Legionella</i> spp. including <i>L. pneumophila</i> in Water by Direct Membrane Filtration Technique	ISO 11731:2017

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MW033	Water	Enumeration of <i>Clostridium perfringens</i> in Water by Membrane Filtration (MF) Method	ISO 14189:2013
MW034	Water	Enumeration of Coagulase Positive <i>Staphylococci</i> (including <i>S. aureus</i>) in Water by Membrane Filtration (MF) Technique	AS/NZS 4276.20:2003
MW035	Water	Enumeration of Heterotrophic Plate Count in Water by Membrane Filtration (MF) Technique	SM 9215 D, APHA 23 rd Edition, 2017
MW036	Water	Enumeration of Thermotolerant (Faecal) Coliform and <i>E. coli</i> in Water by Most Probable Number (MPN) Method	SM 9221 E & F, APHA 23 rd Edition, 2017
MW049	Water	Enumeration of Sulphite Reducing Clostridia in Water by Membrane Filtration (MF) Technique	The Microbiology of Drinking Water (2020) – Part 6, Environment Agency, UK



Accredited Laboratory

A2LA has accredited

AUSTRALIAN LABORATORY SERVICES CO. LTD. (ALS ARABIA) – DAMMAM

Dammam, SAUDI ARABIA

for technical competence in the field of

Biological Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 29th day of December 2020.

A blue ink signature of the Vice President of Accreditation Services.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 3258.03
Valid to May 31, 2022

For the tests to which this accreditation applies, please refer to the laboratory's Biological Scope of Accreditation.