



INTERNATIONAL  
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## SCOPE OF ACCREDITATION

IAS Accreditation Number	TL-765
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Effective Date of Scope	September 28, 2018
Accreditation Standard	ISO/IEC 17025:2005

### Chemical and Environmental

#### Chemical, Oil, Soil, Water and Wastewater

AOAC 973.48, 1973	Total kjeldahl Nitrogen for aqueous samples
APHA-2120 C	Determination of true and apparent colour in water using spectrophotometric method
APHA-2130 B	Turbidity in water by turbidimetric method
APHA 2320 B	Total Alkalinity for soil samples
APHA-2320 B	Alkalinity in water by auto-titration method
APHA 2340 B	Total Hardness
APHA-2510 B	Measurement of conductivity in water using conductivity meter
APHA 2520-B	Determination of Salinity using Electrical Conductivity Probe
APHA-2540 C	Total dissolved solids (TDS) in water by TDS apparatus method
APHA-2540 D	Total solids (TSS) in water by TSS apparatus method
APHA 5310B	Total Organic Carbon (TOC) for Liquid Samples
APHA 4500 Cl B	Chloride
APHA 4500-Cl G	Free chlorine Low Range



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APHA-4500 Cl G	Total chlorine as Cl <sub>2</sub> in water - DPD/ Spectrophotometric method
APHA-4500 Cl –G	Determination of Free Chlorine by Spectrophotometer (Chlorine 0.1 to 10 mg/L)
APHA-4500 F- C	Determination of Fluoride by Ion-Selective Electrode Technique (0.01 to 19.000 mg/L)
APHA-4500-HB	Determination of pH in water by pH meter
APHA-4500-NO <sub>2</sub> -B	Determination of nitrite as NO <sub>2</sub> in water - diazotisation/spectrophotometric method
APHA-4500-NO <sub>3</sub> -B	Determination of nitrate as NO <sub>3</sub> in water – 2,6-dimethylphenol/spectrophotometric method
APHA-4500-O C	Measurement of dissolved oxygen in water using the winkler titration method
APHA-4500-P-E	Determination of phosphate as PO <sub>4</sub> in water - phosphomolybdenum blue/spectrophotometric method
Based on APHA-4500-SO <sub>4</sub> E	Sulphate/spectrophotometric method
APHA-5210 D- HACH Track II	Determination of Biological Oxygen Demand by Respirometric Method
APHA-5220 D	Determination of chemical oxygen demand in water using COD apparatus
APHA 5310B	Total Organic Carbon (TOC) for Solid Samples
APHA-5520 B	Determination of Oil and Grease by Partition-Gravimetric method
APHA 5540 B & D	Anionic Detergents
APHA 9215-B	Enumeration of aerobic bacteria HPC
APHA 9221-B	Standard Total Coliform by Fermentation Technique
APHA 9221-E	Fecal Coliform by Multiple Tube Fermentation Technique
APHA 9222-B	Standard Total Coliform by Membrane Filter Procedure
APHA 9222-D	Fecal Coliform by Membrane Filter Procedure
APHA 9222-G	Escherichia coli by Partition Methods MF Partition Procedures
APHA 9610-C	Spread Plate Technique Detection of fungi



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AS 5013.5 - 2005	Microbiology of food and animal feeding stuffs by Horizontal method
ASTM D93	Flash Point
ASTM D704	Density and viscosity
ASTM D2216	Standard Test Methods for Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass
ASTM D7678	Standard Test Method for total Petroleum Hydrocarbons (TPH) in Water and Wastewater with Solvent Extraction using Mid-IR Laser Spectroscopy
ENV 12260	Determination of nitrogen. Determination of bound nitrogen, after combustion and oxidation to nitrogen dioxide, using chemiluminescence detection
EPA 120-1	Determination of Electrical conductivity for soil and sediment
EPA 365.1	Determination of Phosphorus (P) by the Discrete analyser
US EPA 6010B	Determination of Trace Elements including Metals in water, aqueous samples, soils, sludge and sediments by iCAP7400 Radial ICP-OES
US-EPA 8015B	TPH in water by GC-FID
US-EPA 8260B	VOC in water by GCMS
US-EPA 8270C	Pesticides in water by GCMS
US-EPA 8270C	SVOC in water by GCMS
EPA 9045 D	pH for soil and sediment
EPA 9071B	Oil and grease (Soxhlet)
Gerhardt A.1.4.2	Total kjeldahl Nitrogen for soil samples
HACH 8027	Cyanide
HACH 8038	Determination of Ammonia-Nitrogen Nessler Method (0.015 to 2 mg /L)
HACH 8047	Phenol
HACH 8131	DO by DO meter
HACH 8131	Sulfide
HACH 8160	Determination of Total Dissolved Solid by Conductivity Probe



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HACH 8192	Determination of Nitrate LR by Cadmium Reduction Method (Nitrate low range 0.0-0.5 mg/L)
HACH 8507	Determination of Nitrite LR by Spectrophotometer Diazotization Method (Nitrite LR 0.002 to 0.3 mg/L)
HACH 10227	Determination of Sulphate by Turbidimetric Method
HACH 10360	Direct Measurement Method by Luminescent Dissolved Oxygen Probe
HACH electrode user	TDS /electrode
Hygiena INS0039 EN	UltraSnap ATP Surface Test
Hygiena INS0055	Environmental Listeria Test
Hygiena INS0057 EN	AquaSnap Total ATP Tests for Water Samples
Hygiena INS0118	MicroSnap – Coliform and E. coli
Hygiena INS0126	MicroSnap – Total Microbial Activity Test
Hygiena INS0172	Environmental Salmonella Test
ICP.OES AN 43374	Determination of Mercury in water using iCAP 7400
ICP.OES AN 43374	Determination of Hydride-forming element in water using iCAP 7400
Analysis of Wastewater WHO 1996	Detection of Helminth worms and eggs

## Microbiological

### Water and Food

APHA 9213-E	Recreational water – Membrane filter techniques for Pseudomonas aeruginosa
APHA 9213 F	Recreational water-Multiple tube technique for Pseudomonas aeruginosa
APHA 9215 D	Heterotrophic plate count membrane filter method
APHA 9230-B	Multiple-tube technique for fecal Streptococci/enterococcus
APHA 9230-C	Fecal enterococcus / streptococcus groups – Membrane filter techniques fecal
APHA 9240-D	Iron and Sulphur bacteria/Enumerating enriching and isolating Iron and Sulphur bacteria



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APHA 9610 D	Detection of Fungi-membrane filter technique
AS 5013.2 –2007	Horizontal method for the enumeration of Bacillus Cereus – Colony Count Technique
AS 5013.8 -2004	Enumeration and Identification of Enterobacteriaceae from meat and meat products – MPN method and colony count method
AS 5013.10 -2009	Horizontal method for the detection of Salmonella in food and environmental samples
BAM Chapter 3	BAM: Aerobic plate count
BAM Chapter 4	BAM 4: Enumeration of Escherichia coli and the Coliform Bacteria
BAM Chapter 4 A	BAM: Diarrheagenic Escherichia coli
BAM Chapter 16	BAM: Clostridium Perfringens
BAM Chapter 18	BAM: Yeasts, Molds and Mycotoxins
ISO 6888-Part 1	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
ISO 11290-2 A1:2004	Microbiology of food and animal feeding stuffs. Horizontal method for the detection and enumeration of Listeria monocytogenes
ISO 11731	Water Quality – Enumeration of Legionella
ISO 14189	Water Quality-Enumeration of Clostridium perfringens-Method using membrane filtration
ISO 16649	Microbiology of food and animal feeding stuffs – Horizontal method for the enumeration of $\beta$ -Glucuronides E.coli