



## CERTIFICATE OF ACCREDITATION

This is to certify that

***QUANTILAB LTD***

*Testing Laboratory No.: T001*

is accredited by the ***Mauritius Accreditation Service (MAURITAS)***  
for the following Testing fields:

***CHEMICAL***

***and***

***BIOLOGICAL***

as per scope of schedule of accreditation

THIS LABORATORY MEETS THE REQUIREMENTS OF ISO/IEC 17025:2017

*This accreditation demonstrates technical competency for a defined scope and the operation of a laboratory quality management system and shall remain in force subject to continuing compliance with MAURITAS accreditation criteria, ISO/IEC 17025:2017 and any further requirements specified by MAURITAS*

Issue Date: 12 February 2024

Director of MAURITAS

This certificate is valid only when accompanied by its Schedule of Accreditation.



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Mrs. Marie Mylene Joanna Pavaday (K only)

Mrs. Mehrine Y. Goolamally Elahee (A38 and A39 only)

**Schedule of Accreditation**

**Laboratory No T001**

**(accredited to ISO/IEC 17025:2017)**

Mr. Bertrand Baudot, Mr. Gaston Lew  
Chuk Wai, Mr. Mahmoud Kamel, Ms.  
Isabelle Quirin (X – AJ only)

Mr. Suraj Bhunora, Mrs. Marie Mylene  
Joanna Pavaday, Mrs. Geetabali  
Seerputtee-Venkiah, Mr. Balwansingh  
Balkaransingh, Mr. Rewantsing Gopaul (L  
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Ms. Noor Djehan Mowlaboccus (YI only)

For Biological:

Mrs. Mehrine Y. Goolamally Elahee

**Issue No:** 04

**Expiry Date:** 11 February 2028

	<b>Materials/Products Tested</b>	<b>Types of tests/Properties Measured Range of Measurement</b>	<b>Specification/Standard methods or techniques used</b>
<b>I.</b>	<b>Chemical Inorganic</b>		
A.	Water/Wastewater	1. Chemical Oxygen Demand 2. Conductivity 3. Fluoride 4. Chloride 5. Nitrate 6. Nitrite 7. Sum of Total Nitrogen 8. Oil & Grease 9. pH 10. Orthophosphate 11. Phosphate as PO4-P 12. Salinity 13. Total Suspended Solids 14. Sulphate 15. Sulphide 16. Total Dissolved Solids 17. Total Kjeldahl Nitrogen 18. Turbidity 19. Mercury 20. Cyanide 21. Nickel, Potassium, Sodium, Vanadium, Zinc, Aluminium, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper	ISO 15705:2002 ISO 7888:1985 ISO 10304-1:2007 (F) ISO 10304-1:2007 (F) ISO 10304-1:2007 (F) ISO 10304-1:2007 (F) In-House Method QL_I_WI18 APHA 5520 A/5520 D, 24 <sup>th</sup> ed. ISO 10523:2008 ISO 10304-1:2007 ISO 10304-1:2007 Refractometry NF EN 872 MES ISO 10304-1:2007 (F) HACH Method 8131 Calculation based on APHA 2510 B, 24 <sup>th</sup> ed. ISO 5663:1984 ISO 7027-1:2016 ISO 7027-2:2019 EPA Method 7473 (SW-846) HACH Method 8027:2014, Ed 9 ISO 17294-1:2004 & ISO 17294-2:2016

		Lead, Lithium, Magnesium, Manganese, Iron, Selenium, Antimony, Phosphorus, Tin	
		22. Alkalinity (Total & Phenolphthalein)	APHA 2320 B, 24 <sup>th</sup> ed.
		23. AOX (Total Organic Halides)	ISO 9562:2005
		24. Bicarbonate	Based on APHA 2320 B, 24 <sup>th</sup> ed.
		25. Carbonate	Based on APHA 2320 B, 24 <sup>th</sup> ed.
		26. Calcium Hardness	APHA 3500 – Ca B, 24 <sup>th</sup> ed.
		27. Magnesium Hardness	In-House Method QL_I_WI23
		28. Total Hardness	APHA 2340 C, 24 <sup>th</sup> ed.
		29. Sodium Absorption Ratio	In-House Method QL_I_WI24
		30. Sulphite	APHA 4500- SO <sub>3</sub> <sup>2-</sup> , 24 <sup>th</sup> ed.
		31. BOD	NF EN 1899-2:1998
		32. Silica	HACH 8185:2014, Ed 9
		33. Ammonium as NH <sub>4</sub> <sup>+</sup>	Based on ISO 5664:1984
		34. Ammonia as NH <sub>3</sub>	Based on ISO 5664:1984
		35. Ammonical N as NH <sub>4</sub> -N	Based on ISO 5664:1984
		36. Nitrate as NO <sub>3</sub> -N	Based on ISO 10304-1:2007
		37. Nitrite as NO <sub>2</sub> -N	Based on ISO 10304-1:2007
		38. Free Residual Chlorine	HACH 8021:2014, Ed 9
		39. Temperature	In-House Method by Probe
B.	Seawater	1. Chemical Oxygen Demand	ISO 15705:2002
		2. Oil & Grease	APHA 5520 A/5520 D, 24 <sup>th</sup> ed.
		3. pH	ISO 10523:2008
		4. Total Suspended Solids	NF EN 872 MES
		5. Mercury	EPA Method 7473 (SW-846)

		6. Nickel, Vanadium, Zinc, Arsenic, Barium, Beryllium, Boron, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Iron, Selenium,	ISO 17294-1:2004 & ISO 17294-2:2016
		7. Nitrate as NO <sub>3</sub>	Based on ISO 10304-1:2007
		8. Nitrate as NO <sub>3</sub> -N	Based on ISO 10304-1:2007
		9. Nitrite as NO <sub>2</sub>	Based on ISO 10304-1:2007
		10. Nitrite as NO <sub>2</sub> -N	Based on ISO 10304-1:2007
		11. Phosphate as PO <sub>4</sub> - P	Based on ISO 10304-1:2007
		12. Phosphate as PO <sub>4</sub> 3-	Based on ISO 10304-1:2007
C.	Soil & Sediments	1. Moisture	Based on AOAC 2008.06, 22 <sup>nd</sup> ed.
		2. Mercury	EPA Method 7473 (SW-846)
		3. Nickel, Potassium, Vanadium, Zinc, Arsenic, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Selenium, Antimony, Phosphorus, Tin	ISO 17294-1:2004 & ISO 17294-2:2016
D.	Seafood and Feeds	1. Histamine	AOAC 977.13, 22 <sup>nd</sup> ed.
		2. Pepsin Digestibility (+0.002%)	Based on AOAC 971.09, 22 <sup>nd</sup> ed.
		3. Peroxide Value	Based on AOAC 965.33, 22 <sup>nd</sup> ed. Soxhlet Solvent Extraction Method
		4. Sand	Based on AOAC 920.46 C, 22 <sup>nd</sup> ed.
		5. Salt	Based on AOAC 937.09, 22 <sup>nd</sup> ed.
E.	Animal, Vegetable and Marine Fats and Oils	1. Acid Value	AOCS Cd 3d-63, 7 <sup>th</sup> ed.
		2. Anisidine Value	AOCS Cd 18-90, 7 <sup>th</sup> ed.
		3. Free Fatty Acid as Oleic Acid	AOCS Ca 5a-40, 7 <sup>th</sup> ed.
		4. Insoluble Impurities	AOCS Ca 3a-46, 7 <sup>th</sup> ed.
		5. Iodine Value	AOCS Cd 1d-92, 7 <sup>th</sup> ed.

F.	Food (Including Fish/Fish Products/ Feeds/ General Food)	6. Peroxide Value	AOAC 965.33, 22 <sup>nd</sup> ed.
		7. Mercury	EPA Method 7473 (SW-846)
		8. Moisture	Based on AOAC 2008.06, 22 <sup>nd</sup> ed.
		9. Arsenic, Cadmium, Lead, Tin, Selenium, Phosphorus,	ISO 17294-1:2004 & ISO 17294-2:2016  Digestion done by modified AOAC 999.10 Microwave Digestion, 22 <sup>nd</sup> ed.
		1. Ash	Based on AOAC 942.05, 22 <sup>nd</sup> ed.
		2. Total Fats	Based on AOAC 2008.06, 22 <sup>nd</sup> ed./  In-House Soxhlet Extraction Method, QL_I_MV66
		3. Total Protein	Based on AOAC 2001.11, 22 <sup>nd</sup> ed,  Flash 2000 N/Protein Analyser based on AOAC 968.06, 22 <sup>nd</sup> ed.
		4. TVBN	Based on AOAC 920.03, 22 <sup>nd</sup> ed.
		5. Mercury	EPA Method 7473 (SW-846)
		6. Moisture	Based on AOAC 2008.06, 22 <sup>nd</sup> ed./  In-House method, QL_I_MV67-Air Oven at 105°C
G.	Equine and Human Body Fluids	7. Arsenic, Cadmium, Lead, Tin, Selenium, Phosphorus	ISO 17294-1:2004 & ISO 17294-2:2016  Digestion done by modified AOAC 999.10, 22 <sup>nd</sup> ed. Microwave Digestion
		8. Calorific Value	ASTM D420 & D5865
		9. Energy Value	ASTM D420 & D5865
		1. Quantification of Cobalt, Arsenic	In-House Method LTP_O_28

H.	Vinasse & Fertilisers	1. Phosphorus as P <sub>2</sub> O <sub>5</sub> , Potassium as K <sub>2</sub> O	Modified ISO 17294-1:2004 & ISO 17294-2:2016 Following In-house digestion Method
		2. Total N	AOAC 892.01, 22 <sup>nd</sup> Edition
I.	Cosmetics	1. Mercury	EPA Method 7473 (SW-846)
J.	Vanillin	1. Vanillin Content	ISO 5565-2:1999
K.	Raw & Refined White Sugar	1. Sugar Solution Colour	ICUMSA GS 9/1/2/3-8 (2011)
		2. Moisture	ICUMSA GS 2/1/3/9-15 (2007)
		3. Conductivity Ash	ICUMSA GS 2/3/9-17 (2011)
		4. Reducing Sugar	ICUMSA GS 2/3/9-5 (2011)
		5. Sulphite (Sulphur dioxide)	ICUMSA GS 2/1/7/9-33 (2022)
		6. Arsenic, Copper, Lead	Modified AOAC 999.10, 22 <sup>nd</sup> Ed. followed by ISO 17294-1:2004 & ISO 17294-2:2016
		7. Mercury	EPA Method 7473 (SW 846)
		8. Water activity	In-House method, LTP-P-01
	<i>Organic</i>		
L.	Marine Fuel Oil (RME and RMG), Marine Gasoil (DMA), Diesel	1. Acid Number of Petroleum Products by Potentiometric Titration	ASTM D664 – 24 IP 177/19 ISO 6619:1988 (2023)
		2. Determination of Ash	ASTM D482 – 19 IP 4/05 (2012) ISO 6245:2001/ NF EN ISO 6245:2002
		3. Determination of Carbon Residues – Micro Method	ASTM D4530 – 15 (2020) ISO 10370:2014 IP 398/20
		4. Petroleum and Related Products from Natural or Synthetic Sources — Determination of Pour Point	ASTM D97 - 17b (2022) ISO 3016:2019/NF EN ISO 3016:2019 IP 15/22
		5. Petroleum Products and Bituminous Materials — Determination of Water — Distillation Method	ASTM D95 - 23 ISO 3733:1999/ NF ISO 3733:2003 IP 74/00 (2014)

		<p>6. Standard Test Method for Density, Relative Density, API Gravity of Liquids by Digital Density Meter</p> <p>7. Determination of Flash Point — Pensky-Martens Closed Cup Method</p> <p>8. Transparent and Opaque Liquids — Determination of Kinematic Viscosity and Calculation of Dynamic Viscosity</p> <p>9. Determination of Hydrogen Sulfide in Fuel Oils — Rapid Liquid Phase Extraction Method</p>	<p>ASTM D4052 – 22 ISO 12185:2024 IP365/2020 NF EN ISO 12185:1996</p> <p>ASTM D93-20 ISO 2719:2016/Amd.1:2021/NF EN ISO 2719/A1:2021 IP 34/21</p> <p>ASTM D445 – 24 ISO 3104:2023/ NF EN ISO 3104:1996 IP 71-1/2020</p> <p>IP 570/21</p>
M.	Marine Fuel Oil (RME and RMG)/ Fuel Oil	<p>1. Total Sediment in Residual Fuel Oils — Part 1: Determination by Hot Filtration</p> <p>2. Determination of Aluminium, Silicon, Vanadium, Nickel, Iron, Sodium, Calcium, Zinc and Phosphorous in Residual Fuel Oil by Ashing, Fusion and Inductively Coupled Plasma Emission Spectrometry</p> <p>3. Standard Test Method for Cleanliness and Compatibility of Residual Fuels by Spot Test</p> <p>4. Standard Test Method for Determination of Asphaltenes (Heptane Insolubles) in Crude Petroleum and Petroleum Products</p>	<p>ASTM D4870-22 ISO 10307-1/2:2009 IP 375/18 (2022)</p> <p>IP 501/05 (2019)</p> <p>ASTM D4740-20</p> <p>ASTM D6560 – 22</p>
N.	Aviation Jet A1 (AFQRJOS)	<p>1. Standard Method for Density, Relative Density, API Gravity of Liquids by Digital Density Meter</p>	<p>ASTM D4052-22 ISO 12185:2024 IP 365/2020</p>

	2. Standard Test Method for Flash Point by Pensky-Martens Closed Cup Tester	ASTM D93-20 ISO 2719:2016/Amd.1:2021/NF EN ISO 2719/A1:2021 IP34/21
	3. Standard Test Method for Kinematic Viscosity of Transparent and Opaque Liquids (and calculation of Dynamic Viscosity)	ASTM D445-24 ISO 3104:2023/ NF EN ISO 3104:1996 IP 71-1/2020
	4. Standard Test Method for Acidity in Aviation Turbine Fuel	ASTM D3242 - 23 IP 354/17 (2022)
	5. Determination of Existent Gum Content of Aviation Turbine Fuel	IP 540/08 (2019)
	6. Determination of Flash Point - Abel Closed-Cup Method	IP 170/23
	7. Standard Test Method for Flash Point by Small Scale Closed Cup Tester	ASTM D3828 - 16a (2021)
	8. Standard Test Method for Freezing Point of Aviation Fuels	ASTM D2386 – 19 IP 16/19, ISO 3013:1997, NF ISO 3013:1997
	9. Standard Test Method for Determining Water Separation Characteristics of Kerosine-Type Aviation Turbine Fuels Containing Additives by Portable Separometer	ASTM D7224 - 23
	10. Standard Test Method for Saybolt Color of Petroleum Products (Saybolt Chromometer Method)	ASTM D156 – 23 NF M07-003:2003
	11. Standard Test Method for Smoke Point of Kerosene and Aviation Turbine Fuel	ASTM D1322 – 24 IP 57/95 (2013) ISO 3014:1993 NF M07-028:1982
	12. Standard Test Method for Estimation of Net Heat of Combustion of Aviation Fuel	ASTM D3338/3338M- 20a

O.	Motor Gasoline	<p>13. Standard Test Method for Thermal Oxidation Stability of Aviation Turbine Fuels</p> <p>14. Standard Test Method for Particulate Contamination in Aviation Fuels by Laboratory Filtration</p> <p>15. Determination of the fatty acid methyl esters content of aviation turbine fuel using flow analysis by Fourier transform infrared spectroscopy – Rapid screening method</p> <p>16. Standard Test Method for Determination of the Fatty Acid Methyl Esters Content of Aviation Turbine Fuel Using Flow Analysis by Fourier Transform Infrared Spectroscopy—Rapid Screening Method</p> <p>17. Standard Test Method for Sizing and Counting Particles in Light and Middle Distillate Fuels, by Automatic Particle Counter</p> <p>18. Determination of the level of cleanliness of aviation turbine fuel — Portable automatic particle counter method</p> <p>1. Standard Test Method for Density, Relative Density, Api Gravity of liquids by Digital Density Meter</p> <p>2. Colour</p> <p>3. Standard Test Method for Vapor Pressure of Petroleum Products and Liquid Fuels (Mini Method)</p>	<p>ASTM D3241 - 23 IP 323/18 (2022) ISO 6249:2021 NF ISO 6249:2021</p> <p>ASTM D5452 – 23</p> <p>IP 583/22</p> <p>ASTM D7797-23</p> <p>ASTM D7619 – 22</p> <p>IP 565/13</p> <p>ASTM D4052-22 ISO 12185:2024 IP 365/2020</p> <p>VISUAL</p> <p>ASTM D5191 – 22 IP 394/18 NF EN 13016-1:2018</p>
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P.	Marine Gasoil (DMA), Diesel	4. Standard Test Method for Oxidation Stability of Gasoline (Induction Period Method)	ASTM D525 - 12a(2019) IP 40/97 (2014) ISO 7536:1994 NF EN ISO 7536:1996
		5. Standard Test Method for Research Octane Number of Spark-Ignition Engine Fuel	CORRELATES TO ASTM D2699 – 24
		6. Correlates to Standard Test Method for Motor Octane Number of Spark-Ignition Engine Fuel	CORRELATES TO ASTM D2700 – 24
		7. Standard Test Method for Determination of MTBE, ETBE, TAME, DIPE, Methanol, Ethanol and Tert-Butanol in Gasoline by Infrared Spectroscopy	ASTM D5845 – 21
		8. Total Oxygen	CORRELATES TO ASTM D6839-21a
		9. Standard Test Method for Determination of Benzene in Spark-Ignition Engine Fuels Using Mid Infrared Spectroscopy	ASTM D6277 - 07(2022)
		10. Determination of Hydrocarbon Types and Oxygenates in Automotive-Motor Gasoline and in Ethanol (E85) Automotive Fuel	CORRELATES TO ISO 22854:2021
		11. Determination of manganese content in unleaded petrol – inductively coupled plasma optical emission spectrometry (ICP-OES) Method	IP 589/15
		12. Standard Test Methods for Lead and Manganese in Gasoil by X-Ray Fluorescence Spectroscopy	ASTM D5059-21
		1. Diesel and domestic heating fuels - Determination of cold filter plugging point copy	ASTM D6371-23; IP 309/16

Q.	Marine Gasoil/ Domestic Gas Oil(DMA)	<p>2. Petroleum and related products from natural or synthetic sources - Determination of cloud point</p> <p>1. Cetane Index</p> <p>2. Petroleum products — Determination of the oxidation stability of middle distillate fuels</p> <p>3. Standard Test Method for Particulate Contamination in Middle Distillate Fuels by Laboratory Filtration</p>	<p>ASTM D2500-23; ISO 3015:2019; IP 219/20; NF T60-105:1996</p> <p>ASTM D4264 - 2018</p> <p>ISO 12205:1995</p> <p>ASTM D6217 – 21 IP 440/14 EN 12662:2014</p>
R.	Marine Gasoil (DMA) Marine Fuel Oil Aviation Jet A1 Motor Gasoline Diesel	<p>1. Petroleum Products — Determination of Sulfur Content — Energy-Dispersive X-Ray Fluorescence Spectrometry</p> <p>2. Standard Test Method for density, relative density and API gravity of liquid petroleum by Portable Digital Density Meter</p>	<p>ASTM D4294 – 21 ISO 8754:2003 (Re 2021) IP 336/04 (2022) NF EN ISO 8754:2003</p> <p>ASTM D7777-24</p>
S.	Marine Gasoil (DMA) Aviation Jet A1 Motor Gasoline Diesel	<p>1. Standard Test Method for Distillation of Petroleum Products and Liquid Fuels at Atmospheric Pressure</p>	<p>ASTM D86 - 24 IP 123/19 ISO 3405:2019 NF EN ISO 3405:2019</p>
T.	Aviation Jet A1 Motor Gasoline	<p>1. Standard Test Method for Hydrocarbon Types in Liquid Petroleum Products by Fluorescent Indicator Adsorption</p> <p>2. Standard Test Method for Gum Content in Fuels by Jet Evaporation</p>	<p>ASTM D1319 - 20a IP 156/22 ISO 3837: 1993/ AMD 1: 2021 NF EN 15553:2007</p> <p>ASTM D381-2022 IP 131/21 ISO 6246:2017/AMD 1:2019 NF EN ISO 6246:2017</p>

U.	Aviation Jet A1 Diesel	<p>3. Standard Test Method for (Thiol Mercaptan) Sulfur in Gasoline, Kerosine, Aviation Turbine and Distillate Fuels (Potentiometric Method)</p> <p>1. Standard Test Methods for Electrical Conductivity of Aviation and Distillate Fuels</p>	<p>ASTM D3227 – 24 IP 342/13 ISO 3012:1999 NF ISO 3012:1999</p> <p>ASTM D2624 – 22 IP 274/18 ISO 6297: 1997</p>
V.	Aviation Jet A1 Motor Gasoline Diesel	<p>1. Standard Test Method for Corrosiveness to Copper from Petroleum Products by Copper Strip Test</p> <p>2. Standard Test Method for Determination of Total Sulfur in Light Hydrocarbons, Spark Ignition Engine Fuel, Diesel Engine Fuel, and Engine Oil by Ultraviolet Fluorescence</p> <p>3. Standard Test Method for Free Water and Particulate Contamination in Distillate Fuels (Visual Inspection Procedures)</p>	<p>ASTM D130 – 19 IP 154/00 (2018) ISO 2160: 1998 NF EN ISO 2160:1998</p> <p>ASTM D5453 - 19a</p> <p>ASTM D4176 - 22</p>
W.	Diesel	<p>1. Standard Test Method for Calculated Cetane Index of Distillate Fuels</p> <p>2. Standard Test Method for ASTM Color of Petroleum Products (ASTM Color Scale)</p> <p>3. Standard Test Method for Determination of Water in Petroleum Products, Lubricating Oils and Additives by Coulometric Karl Fischer Titration</p>	<p>ASTM 976-21 e1</p> <p>ASTM D1500 – 24 IP 196/97 (2021) ISO 2049: 1996</p> <p>ASTM D6304 - 20</p>
X.	Water/Wastewater	<p>1. Qualitative Analysis of Drug Residues</p> <p>2. Quantitative Analysis of Polychlorinated Biphenyls (PCBs)</p>	<p>In-House method, LTP_O_04, LTP_O_01</p> <p>In-House method, LTP_O_26 (Based on ISO 6468:1996)</p>

Y.	Food & Feed	3. Quantitative Analysis of Total Hydrocarbon Oil Index	Based on ISO 9377-2:2000
		4. Quantitative Determination of Nitrogen & Phosphorus containing pesticides	Based on AOAC 991.07, 22 <sup>nd</sup> Ed.
		5. Quantitative Analysis of Organochlorine Pesticides	In-House method LTP_O_21 (Based on ISO 6468:1996)
		1. Analysis of Pesticides Residues	QuEChers Method BS EN 15662:2018
		2. Quantitative Analysis of Antioxidants	In-House method, LTP_O_29
		3. Quantitative analysis of polar pesticides	In-House method, LTP-O-46 Liquid chromatography Mass spectrometry
		4. Quantitative analysis of Acrylamide	In-House method, LTP-O-45 Liquid chromatography Mass spectrometry
Z.	Animal, Vegetable and Marine Fats and Oils	5. Analysis of 5-HMF in sugar, sugar syrups, sugar products, invert sugar syrups and honey	In-House method, LTP-O-36 Liquid chromatography Mass spectrometry
		6. Quantitative Analysis of Aflatoxins (B1, B2, G1 and G2)	In-House method, LTP-O-32 Liquid Chromatography Mass Spectrometry
		7. Quantitative Analysis of sugars in beverages, food and feed	In-House method, LTP-O-47 High Performance Liquid chromatography Refractive Index
AA	Food (Including Fish/Fish Products/Feeds/ General Food)	1. Qualitative Analysis of Antibiotics	In-House method, LTP_O_24

AB	Equine and Human Body Fluids	<p>1. Qualitative Analyses of drugs, prohibited substances, banned substances, illicit substances and restricted substances as defined by rules and regulations of Customers.</p> <p>2. Quantitative Analysis of Testosterone</p>	<p>In-House methods using GC,LC, TLC, Immunoassay, Colorimetric tests and Mass Spectrometry</p> <p>In-House method, LTP_O_01</p> <p>In-House method, LTP_O_02</p> <p>In-House method, LTP_O_03</p> <p>In-House method, LTP_O_04</p> <p>In-House method, LTP_O_05</p> <p>In-House method, LTP_O_06</p> <p>In-House method, LTP_O_07</p> <p>In-House method, LTP_O_08</p> <p>In-House method, LTP_O_11</p> <p>In-House method, LTP_O_13</p> <p>In-House method, LTP_O_15</p> <p>In-House method, LTP_O_16</p> <p>In-House method, LTP_O_17</p> <p>In-House method, LTP_O_18</p> <p>In-House method, LTP_O_19</p> <p>In-House method, LTP_O_14</p>
AC	Human Blood	1. Quantitative Analysis of Alcohol	In-House method, LTP_O_31 (Gas Chromatography FID)
AD	Equine Blood/ Equine Urine	<p>1. Qualitative Analysis of Recombinant human erythropoietin</p> <p>2. Qualitative Analysis of Peptides based drugs</p>	<p>In-House method, LTP_O_42 (Liquid Chromatography-HRMS)</p> <p>In-House method, LTP_O_27 (Liquid Chromatography-HRMS)</p>
AE	Equine Plasma /Equine Hair	1. Qualitative Analysis of Anabolic steroids / anabolic steroids esters	In-House method, LTP_O_33 (LCMS)

AF	Equine Urine/ Equine Plasma	1. Quantitative Analysis of Dimethylsulfoxide (DMSO)  2. Qualitative analysis of bisphosphonates & polar drugs	In-House method, LTP_O_40 (LC-MS)  In-House method, LTP-O-35 Liquid chromatography Mass spectrometry
AG	Equine Urine	1. Qualitative analysis of polar substances by dilute and shoot  2. Qualitative and Quantitative analysis of Hydrocortisone  3. Quantitative analysis of 3-methoxytyramine  4. Quantitative analysis of Prednisolone  5. Quantitative analysis of Boldenone and Estranediol	In-House method, LTP_O_34 Liquid Chromatography Mass Spectrometry  In-House method, LTP-O-37 Liquid chromatography Mass spectrometry  In-House method, LTP-O-48 Liquid chromatography Mass spectrometry  In-House method, LTP-O-38 Liquid chromatography Mass spectrometry  In-House method, LTP-O-49 Gas chromatography Mass spectrometry
AH	Equine Plasma	1. Quantitative analysis of testosterone	In-House method, LTP-O-39 Liquid chromatography Mass spectrometry
AI	Tea and Tea products	1. Content of total polyphenols in tea	ISO 14502-1:2005 UV-VIS
AJ	Seawater	1. Quantitative Analysis of Total Hydrocarbon Oil Index	Based on ISO 9377-2:2000
<b>II.</b>	<b>Biological</b>		
A.	Water	1. Detection & Enumeration of Intestinal Enterococci  2. Detection of Salmonella Spp.  3. Enumeration of Microorganisms at 22°C & 36°C	ISO 7899-2:2000  ISO 19250:2010  ISO 6222:1999

		4. Enumeration of Spores of Sulphite-Reducing Bacteria	ISO 6461-2:1986
		5. Enumeration of Clostridium Perfringens	ISO 14189:2013
		6. Detection & Enumeration of Legionella Spp	Legiolert IDEXX
		7. Detection & Enumeration of Legionella Spp and Legionella Pneumophila	NF T90-431
		8. Detection And Enumeration of Pseudomonas Aeruginosa	ISO 16266:2008
		9. Multiple-Tube Fermentation Technique For Members of Coliform Group (Coliforms, Faecal Coliforms and E.Coli)	APHA 9221 A-F, 24 <sup>th</sup> Edition
		10. Total Coliforms, Thermotolerant Coliforms (Faecal Coliforms) and E. coli	APHA 9222, 24 <sup>th</sup> Edition (B, G and H)
B.	Potable/Treated Water	1. Enumeration of Escherichia Coli (E.Coli) and Coliform Bacteria – Part 1: Membrane Filtration Method for Waters with Low Bacterial Background Flora	ISO 9308-1:2014/Amd. 1:2016
C.	Food & Animal Feeding Stuffs	1. Enumeration of Coagulase-Positive Staphylococci	ISO 6888-1:2021/Amd 1:2023, ISO 6888-2:2021/Amd 1:2023
		2. Enumeration of B-Glucuronidase-Positive E.Coli	ISO 16649-2:2001
		3. Detection of E.Coli O157	Single Path Method
		4. Horizontal Method for the Enumeration of Yeasts & Moulds	NF ISO 21527-1:2008-11 NF ISO 21527-2:2008-11
D.	Food, Feed and Environmental samples from food production and food handling	1. Enumeration of sulfite-reducing Clostridium spp.	ISO 15213-1:2023

	2. Enumeration of <i>Clostridium perfringens</i> by colony-count technique	ISO 15213-2:2023
	3. Horizontal Method for the Detection and Enumeration of Enterobacteriaceae - Part 2 – Colony-Count technique	ISO 21528-2:2017
	4. Detection of <i>Salmonella</i> Spp.	ISO 6579-1:2017/AMD 1:2020
	5. Detection of <i>Salmonella</i> Spp.	Oxoid™ <i>Salmonella</i> Precis™ Method
	6. Enumeration of Microorganisms	ISO 4833-1:2022
	7. Enumeration of Coliforms	ISO 4832:2006
	8. Detection of <i>Vibrio Parahaemolyticus</i> and <i>Vibrio Cholera</i> and Other Pathogenic <i>Vibrio</i> Spp.	ISO 21872-1:2017/Amd1:2023
	9. Detection of <i>Shigella</i> Spp	ISO 21567:2004
	10. Horizontal Method for the Detection and Enumeration of Enterobacteriaceae - Part 1 – Detection and Enumeration by MPN	ISO 21528-1:2017
	11. Horizontal Method for The Enumeration of Presumptive <i>Bacillus Cereus</i> Colony Count Technique at 30oC	ISO 7932:2004/Amd.1:2020.
	12. Detection of <i>Salmonella</i> Spp	VIDAS Easy <i>Salmonella</i> NF VALIDATION (BIO-12/16-09/05) Sample size: 1-750g
	13. Detection of <i>Listeria</i> Spp	VIDAS <i>Listeria</i> NF VALIDATION (BIO-12/33-05/12) Sample size: 1-750g
	14. Horizontal Method for the Detection and Enumeration of Presumptive <i>Escherichia Coli</i> (MPN Technique)	ISO 7251:2005/Amd 1:2023

	15. Horizontal Method for the Enumeration of Coagulase – Positive Staphylococci (Staphylococcus Aureus and Other Species) - - Part 3: Detection and MPN Technique for Low Numbers	ISO 6888-3:2003
	16. Horizontal method for the detection and enumeration of Listeria monocytogenes and of Listeria spp. - Part 1 Detection Method	ISO 11290-1:2017
	17. Horizontal method for the detection and enumeration of Listeria monocytogenes and of Listeria spp. - Part 2 Enumeration Method	ISO 11290-2:2017
	18. Detection and Enumeration of Campylobacter Spp.- Part 1: Detection Method	ISO 10272-1:2023
	19. Detection of E. Coli O157	VIDAS UP ECPT (NF-BIO-12/25-05/09)
	20. Horizontal Method for the Determination of Low Numbers of Presumptive Bacillus Cereus - - Most Probable Number Technique and Detection Method	ISO 21871:2006

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