



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 field:

CHEMICAL

and

BIOLOGICAL

as per scope of schedule of accreditation

THIS LABORATORY MEETS THE REQUIREMENTS OF ISO/IEC 17025

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 17025:2005 and any further requirements specified by MAURITAS

Issue Date: 12th February 2016

Director of MAURITAS

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

FIRST CERTIFICATE ISSUED ON 12 FEBRUARY 2008



**Schedule of Accreditation
Laboratory No.: T001**

Permanent Address of laboratory:

BioPark Mauritius
Socota Phoenicia
Sayed Hossen Road
73408 Phoenix

Postal Address:

BioPark Mauritius
Socota Phoenicia
Sayed Hossen Road
73408 Phoenix

Tel No.: (230) 427 5807/427 5802

Fax No.: (230) 427 5182

E-mail: bertrand.baudot@quantilab.mu

Technical Signatories:

For Chemical (Inorganic):

Mr. Amar Prakash Gokhool

Mrs. Wendy Venpin

For Chemical (Organic):

Mr. Bertrand Baudot

Mr. Gaston Lew Chuk Wai

Mr. Mahmoud Kamel

For Biological:

Mrs. Leigh-Anne McIntyre

Miss Dayamantee Tilhoo (for Parameters marked
by an * only)

Issue No: 06

Expiry Date: 11 February 2020

	<i>Materials/Products Tested</i>	<i>Types of tests/Properties Measured Range of Measurement</i>	<i>Specification/Standard methods or techniques used</i>
I.	Chemical		
1.	<i>Inorganic</i> Water/Wastewater	Ammoniacal Nitrogen Chemical Oxygen Demand Conductivity Fluoride, Chloride, Nitrate, Nitrite Sum of Total Nitrogen Oil & Grease pH Orthophosphate Salinity Total Suspended Solids Sulphate Sulphide	ISO 5664:1984 ISO 15705:2002 ISO 7888:1985 ISO 10304-1:2007 (F) By Calculation APHA 5520 A/5520 D, 22 nd ed. ISO 10523-1:2008 ISO 10304-1:2007 (F) APHA 2520B, 22 nd ed. NF EN 872 MES ISO 10304-1:2007 (F) Colorimetry Palintest Photometer 5000

	Total Dissolved Solids	APHA 2520 B, 22 nd ed.
	Total Kjeldahl Nitrogen	ISO 5663: 1984
	Turbidity	ISO 7027:1999
	Mercury	US EPA 7473
	Cyanide	US EPA 8027
	Nickel, Potassium, Sodium, Vanadium, Zinc, Aluminium, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Lead, Lithium, Magnesium, Manganese, Iron, Selenium, Antimony, Phosphorus, Tin	ISO 17294-1:2004 & ISO 17294- 2:2003
	Alkalinity	APHA 2320 B, 22 nd ed.
	AOX (Total Organic Halides)	ISO 9562:2005
	Bicarbonate	By Calculation
	Carbonate	By Calculation
	Calcium Hardness	APHA 3500 – Ca B, 22 nd ed.
	Magnesium Hardness	By Calculation
	Total Hardness	APHA 2340 C, 22 nd ed.
	Sodium Absorption Ratio	By Calculation
	Detergents	APHA 5540 C, 22 nd ed.
	Sulphite	APHA 4500- SO ₃ ²⁻ , 22 nd ed.
	BOD	NF EN 1899-2:1998
	Silica	HACH 8185:2013
	Ammonium as NH ₄ ⁺	By Calculation
	Nitrate as NO ₃ -N	By Calculation
	Nitrite as NO ₂ -N	By Calculation
	Phosphate as PO ₄ -P	By Calculation
	Free Residual Chlorine	HACH Method 8021:2013

2.	Seafood and Feeds	Histamine Pepsin Digestibility (+0.002%) Peroxide Value Sand Salt	AOAC 977.13, 19 th ed. Based on AOAC 971.09, 19 th ed. Based on AOAC 965.33, 19 th ed. Soxhlet Solvent Extraction Method Based on AOAC 920.46 C, 19 th ed. Based on AOAC 937.09, 19 th ed.
3.	Animal, Vegetable and Marine Fats and Oils	Acid Value Anisidine Value Free Fatty Acid as Oleic Acid Insoluble Impurities Iodine Value Peroxide Value Mercury Moisture Arsenic, Cadmium, Lead, Tin, Selenium, Phosphorus,	AOCS Cd 3d-63, 6 th ed. AOCS Cd 18-90, 6 th ed. AOCS Ca 5a-40, 6 th ed. AOCS Ca 3a-46, 6 th ed. AOCS Cd 1d-92, 6 th ed. AOAC 965.33, 19 th ed. Based on US EPA 7473 Based on AOAC 2008.06, 19 th ed. ISO 17294-1:2004 & ISO 17294-2:2003 Digestion done by modified AOAC 999.10 Microwave Digestion
4.	Food (Including Fish/Fish Products/Feeds/ General Food)	Ash Total Fats Total Protein TVBN Mercury Moisture Arsenic, Cadmium, Lead, Tin, Selenium, Phosphorus,	Based on AOAC 942.05, 19 th ed. Based on AOAC 2008.06, 19 th ed. Based on AOAC 2001.11, 19 th ed. Based on AOAC 920.03, 19 th ed. Based on US EPA 7473 Based on AOAC 2008.06, 19 th ed. ISO 17294-1:2004 & ISO 17294-2:2003 Digestion done by modified AOAC 999.10 Microwave Digestion

		Total Protein	Flash 2000 N/Protein Analyser based on AOAC 968.06, 12 th Ed.
		Calorific Value	ASTM D 240 & D 5865
		Energy Value	By Calculation
5.	Equine and Human Body Fluids	Cobalt, Arsenic	Modified ISO 17294-1:2004 & ISO 17294-2:2003
6.	Vinasse & Fertilisers	Phosphorus as P ₂ O ₅ , Potassium as K ₂ O	Modified ISO 17294-1:2004 & ISO 17294-2:2003 – Following In-house digestion Method
		Total N	AOAC 892.01
7.	<i>Organic</i> Water/Wastewater	Analysis of Drug Residues	In-House Method, QL_O_LTP04
		Analysis of Polychlorinated Biphenyls (PCBs)	In-House Method, QL_O_LTP26 (Based on ISO 6468:1996)
		Analysis of Total Hydrocarbon Oil Index	Based on ISO 9377-2:2000
		Determination of Nitrogen & Phosphorus containing pesticides	Based on AOAC 991.07:1993
		Quantitative Analysis of Organochlorine Pesticides	Based on ISO 6468:1996
8.	Food & Feed	Analysis of Pesticides Residues	QuEChers Method BS EN 15662:2008
9.	Animal, Vegetable and Marine Fats and Oils	Determination of Fatty Acids methyl esters (FAMES)	QL_O_LTP20 (Based on AOAC 991.39)
10.	Food (Including Fish/Fish Products/Feeds/ General Food)	Antibiotics	In-House QL_O_LTP24
11.	Equine and Human Body Fluids	Qualitative and Quantitative Analyses for drugs, prohibited substances, banned substances, illicit substances and restricted substances as defined by rules and regulations of Customers.	In-House methods using GC,LC, TLC, Immunoassay, Colorimetric tests and Mass Spectrometry In-House method, QL_O_LTP01 (GS01) In-House method, QL_O_LTP02 (GS04)

			<p>In-House method, QL_O_LTP03 (GS05)</p> <p>In-House method, QL_O_LTP04 (GS14)</p> <p>In-House method, QL_O_LTP05 (GS15)</p> <p>In-House method, QL_O_LTP07 (TA02)</p> <p>In-House method, QL_O_LTP06 (TA03)</p> <p>In-House method, TA06</p> <p>In-House method, QL_O_LTP08 (TA08)</p> <p>In-House method, QL_O_LTP11 (TA12)</p> <p>In-House method, QL_O_LTP13 (SP09)</p> <p>In-House method, QL_O_LTP19 (CMA03)</p> <p>In-House method, QL_O_LTP18 (CMB04)</p> <p>In-House method, QL_O_LTP17 (CMSPE09)</p> <p>In-House method, QL_O_LTP15 (EIA01)</p> <p>In-House method, QL_O_LTP14 (QM01)</p>
II.	Biological		
1.	Water	<p>Detection & Enumeration of intestinal enterococci</p> <p>Detection of <i>Salmonella spp.</i></p> <p>Enumeration of microorganisms at 22°C & 36°C</p> <p>Detection & Enumeration of <i>E.coli</i> and Coliforms bacteria</p> <p>Enumeration of Spores of sulphite-reducing bacteria</p> <p>Enumeration of <i>Clostridium perfringens</i></p> <p>Detection & Enumeration of</p>	<p>ISO 7899-2:2000</p> <p>ISO 19250:2010</p> <p>ISO 6222:1999 *</p> <p>APHA 9222B, 22nd ed. *</p> <p>ISO 6461-2:1986</p> <p>ISO 14189:2013</p> <p>ISO 11731-2:2004</p>

2.	Food & Animal Feeding Stuffs	<p>Legionella spp</p> <p>Enumeration of <i>Coagulase-positive staphylococci</i></p> <p>Detection and Enumeration of <i>Listeria monocytogenes</i></p> <p>Enumeration of β-Glucuronidase-positive <i>E.coli</i></p> <p>Detection of <i>E.coli</i> O157</p> <p>Horizontal method for the enumeration of Yeasts & Moulds</p>	<p>ISO 6888-1:1999/Amd.1:2003 *, ISO 6888-2:1999/Amd.1:2003</p> <p>ISO 11290-1:1996/Amd.1:2004</p> <p>ISO 16649-2:2001*</p> <p>Single Path Method *</p> <p>NF ISO 21527-1:2008-11 NF ISO 21527-2:2008-11</p>
3.	Food, Feed and Environmental samples from food production and food handling	<p>Enumeration of <i>Clostridium perfringens</i></p> <p>Sulphite-reducing bacteria enumeration</p> <p>Detection & Enumeration of <i>Enterobacteriaceae</i></p> <p>Detection of <i>Salmonella spp.</i></p> <p>Enumeration of microorganisms</p> <p>Enumeration of Coliforms</p> <p>Detection of <i>Vibrio parahaemolyticus</i> and <i>Vibrio cholera</i> and other pathogenic <i>Vibrio spp.</i></p> <p>Detection of <i>Shigella spp</i></p> <p>Enumeration of <i>Enterobacteriaceae</i> (MPN)</p> <p>Horizontal method for the enumeration of presumptive <i>Bacillus cereus</i> Colony count technique at 30°C</p> <p>Detection of <i>Salmonella spp</i></p>	<p>ISO 7937:2004</p> <p>ISO 15213:2003</p> <p>ISO 21528-2:2004</p> <p>ISO 6579-1:2002</p> <p>ISO 4833-1:2013 *</p> <p>ISO 4832:2006 *</p> <p>ISO 21872-2:2007</p> <p>ISO 21567:2004</p> <p>ISO 21528-1:2004</p> <p>NF EN ISO 7932:2005-07 *</p> <p>VIDAS Easy <i>Salmonella</i> NF VALIDATION (BIO-12/16-09/05) *</p>

		<p>Detection of <i>Listeria spp</i></p> <p>Horizontal method for the detection and enumeration of presumptive <i>Escherichia coli</i> (MPN Technique)</p>	<p>VIDAS <i>Listeria</i> NF VALIDATION (BIO-12/33-05/12) *</p> <p>NF ISO 7251:2005-07</p>
--	--	---	---

Issued by the Mauritius Accreditation Service (MAURITAS)

Date: 21 September 2017

.....
Director of MAURITAS