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:
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Issue No: 07

Expiry Date: 11 February 2020

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

		Total Dissolved Solids	APHA 2520 B, 22nd ed.
		Total Khjeldahl 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, 22nd ed.
		AOX (Total Organic Halides)	ISO 9562:2005
		Bicarbonate	By Calculation
		Carbonate	By Calculation
		Calcium Hardness	APHA 3500 – Ca B, 22nd ed.
		Magnesium Hardness	By Calculation
		Total Hardness	APHA 2340 C, 22nd ed.
		Sodium Absorption Ratio	By Calculation
		Detergents	APHA 5540 C, 22nd ed.
		Sulphite	APHA 4500- SO_3^{2-}, 22nd 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	AOAC 977.13, 19th ed.
		Pepsin Digestibility (+0.002%)	Based on AOAC 971.09, 19th ed.
		Peroxide Value	Based on AOAC 965.33, 19th ed. Soxhlet Solvent Extraction Method
		Sand	Based on AOAC 920.46 C, 19th ed.
		Salt	Based on AOAC 937.09, 19th ed.
3.	Animal, Vegetable and Marine Fats and Oils	Acid Value	AOCS Cd 3d-63, 6th ed.
		Anisidine Value	AOCS Cd 18-90, 6th ed.
		Free Fatty Acid as Oleic Acid	AOCS Ca 5a-40, 6th ed.
		Insoluble Impurities	AOCS Ca 3a-46, 6th ed.
		Iodine Value	AOCS Cd 1d-92, 6th ed.
		Peroxide Value	AOAC 965.33, 19th ed.
		Mercury	Based on US EPA 7473
		Moisture	Based on AOAC 2008.06, 19th ed.
		Arsenic, Cadmium, Lead, Tin, Selenium, Phosphorus,	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	Based on AOAC 942.05, 19th ed.
		Total Fats	Based on AOAC 2008.06, 19th ed.
		Total Protein	Based on AOAC 2001.11, 19th ed.
		TVBN	Based on AOAC 920.03, 19th ed.
		Mercury	Based on US EPA 7473
		Moisture	Based on AOAC 2008.06, 19th ed.
		Arsenic, Cadmium, Lead, Tin, Selenium, Phosphorus,	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, 12th 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_2O_5, Potassium as K_2O	Modified ISO 17294-1:2004 & ISO 17294-2:2003 – Following In-house digestion Method
		Total N	AOAC 892.01
7.	Cosmetics	Mercury	Based on US EPA 7473
8.	Vanillin	Vanillin Content	ISO 5565-2:1999
	Organic		
9.	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
10.	Food & Feed	Analysis of Pesticides Residues	QuEChers Method BS EN 15662:2008
11.	Animal, Vegetable and Marine Fats and Oils	Determination of Fatty Acids methyl esters (FAMES)	QL_O_LTP20 (Based on AOAC 991.39)
12.	Food (Including Fish/Fish Products/Feeds/ General Food)	Antibiotics	In-House QL_O_LTP24
13.	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)

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

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

		Detection of *Listeria spp*	VIDAS *Listeria* NF VALIDATION (BIO-12/33-05/12)
		Horizontal method for the detection and enumeration of presumptive *Escherichia coli* (MPN Technique)	NF ISO 7251:2005-07
		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
		Enumeration of *Listeria* spp. (including *Listeria monocytogenes*)	ISO 11290-2: 2017
		Detection and enumeration of *Campylobacter* spp.- - Part 1: Detection method	ISO 10272-1: 2006
		Detection of *E. coli* O157	VIDAS UP ECPT (NF-BIO-12/25-05/09)
		Horizontal method for the determination of low numbers of presumptive *Bacillus cereus* - - Most Probable Number technique and Detection method	ISO 21871:2006

Issued by the Mauritius Accreditation Service (MAURITAS)

Date: 26 February 2018

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Director of MAURITAS